

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198632

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T4FT-7030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5918 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

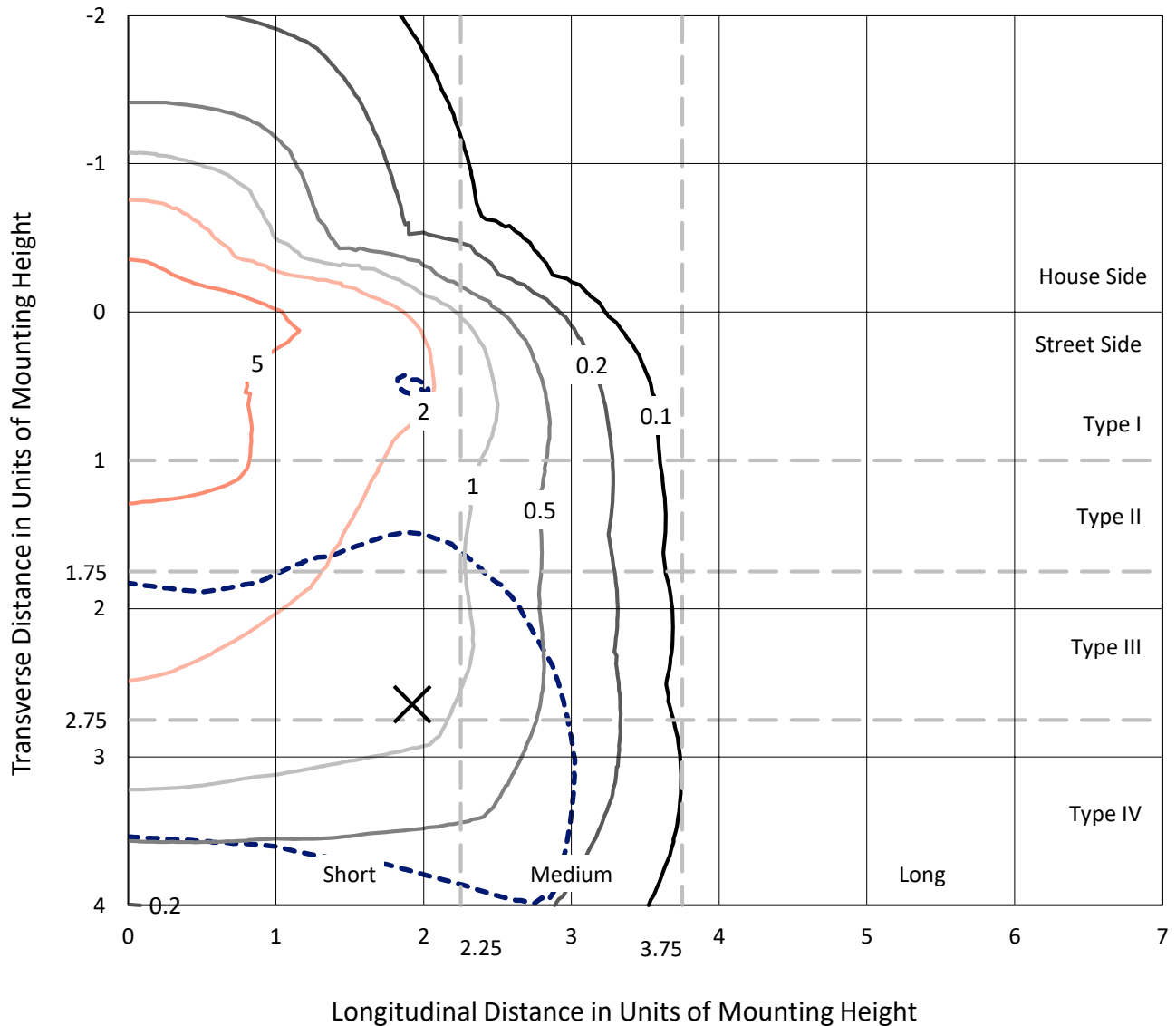


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Iso-Footcandle Lines of Horizontal Illumination

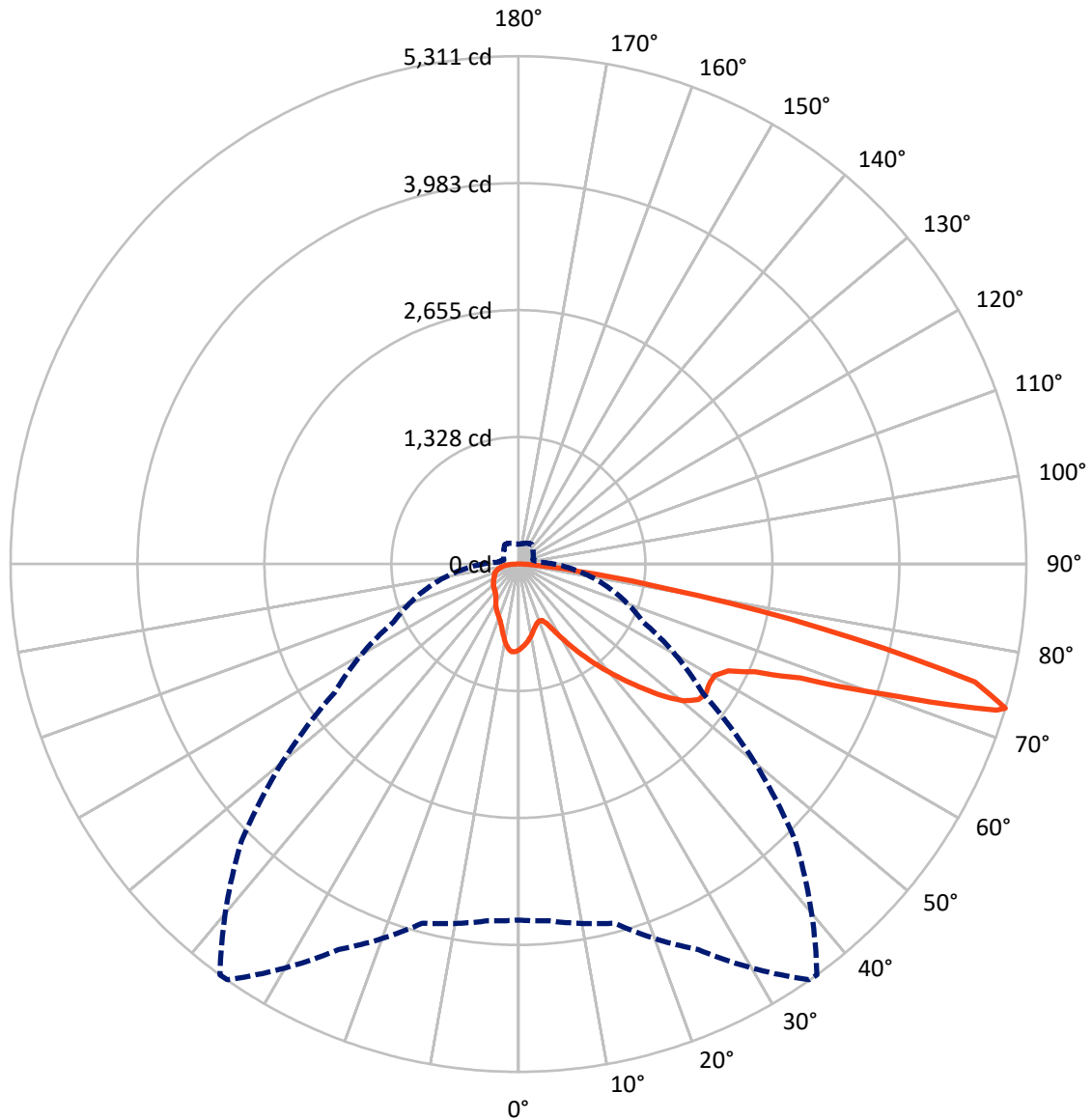
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1141.2	0.0	1141.2
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	4776.8	0.0	4776.8
	% Fixture	80.7	0.0	80.7
Total	Lumens	5918.0	0.0	5918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	1.4
10°-20°	204.5	3.5
20°-30°	327.9	5.5
30°-40°	542.3	9.2
40°-50°	839.1	14.2
50°-60°	1123.3	19.0
60°-70°	1467.4	24.8
70°-80°	1198.6	20.3
80°-90°	133.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5918.0	100.0
0°-180°	5918.0	100.0

Coefficient of Utilization



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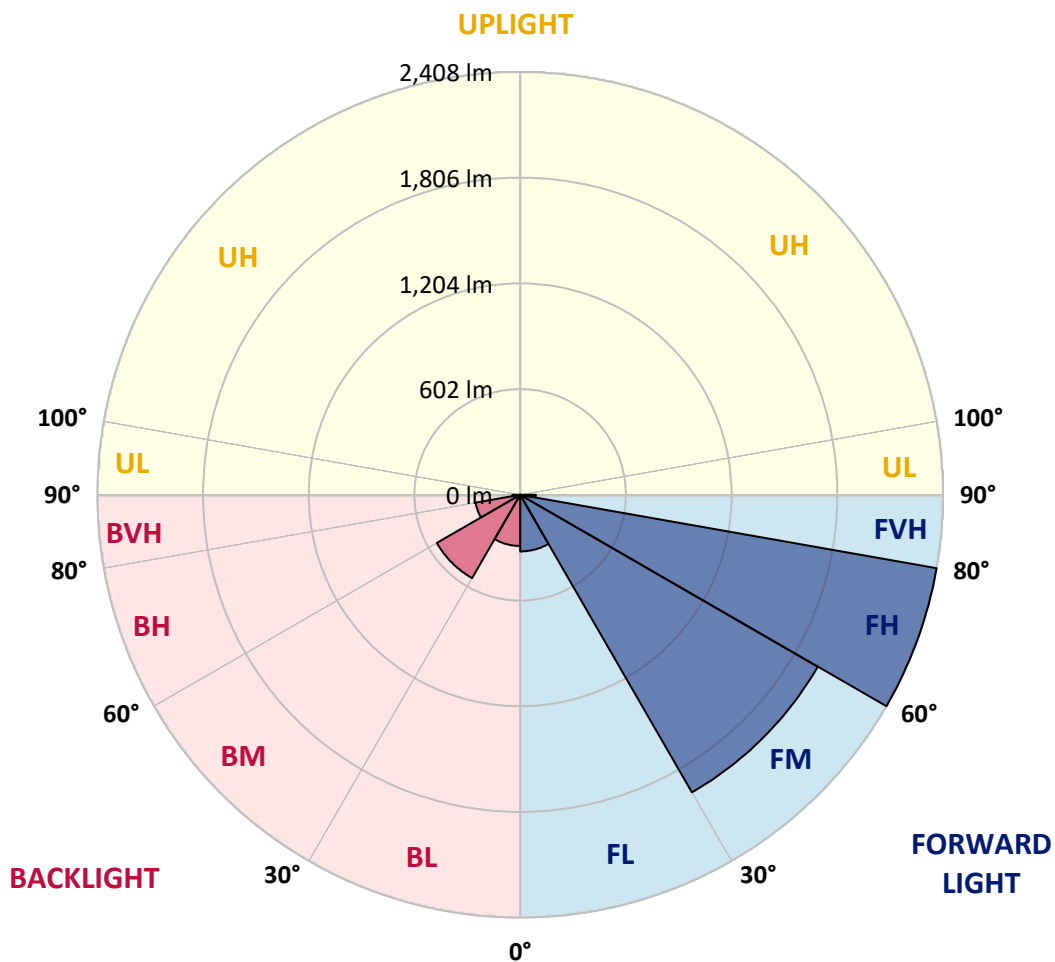
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.5	5.4			
FM (30°-60°)	1956.7	33.1			
FH (60°-80°)	2408.2	40.7			G2/5000
FVH (80°-90°)	89.5	1.5			G1/100
BL (0°-30°)	291.3	4.9	B1/500		
BM (30°-60°)	548.1	9.3	B1/1000		
BH (60°-80°)	257.9	4.4	B1/500		G1/500
BVH (80°-90°)	43.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4
2.5°	862.2	864.4	864.8	867.5	867.5	867.1	868.2	872.7	875.0	880.2	884.7
5°	819.7	822.3	823.5	828.0	833.6	834.0	838.1	846.8	855.0	866.7	876.5
7.5°	771.9	775.0	778.0	787.4	795.6	796.4	804.3	818.2	829.1	843.4	861.1
10°	725.7	726.4	729.5	741.5	752.4	753.5	764.8	780.6	795.3	815.2	835.1
12.5°	687.7	690.0	689.2	698.2	707.6	708.4	723.4	743.4	764.8	787.4	811.1
15°	674.6	674.2	666.3	665.9	670.0	670.8	685.5	708.8	732.8	760.7	791.1
17.5°	683.6	680.6	659.9	647.1	644.5	645.2	656.1	681.7	707.3	739.2	775.7
20°	733.2	721.6	673.1	642.2	633.6	633.6	640.0	660.6	688.8	726.1	771.9
22.5°	850.9	832.9	729.5	674.6	644.1	641.1	636.2	652.0	683.2	728.0	787.4
25°	999.1	990.4	832.9	760.7	697.9	688.1	655.8	661.4	694.9	748.3	829.5
27.5°	1136.3	1121.3	968.6	885.9	797.1	782.1	713.7	690.7	722.7	785.9	890.4
30°	1216.4	1206.2	1108.1	1029.1	923.5	904.3	806.2	748.6	772.3	847.9	976.9
32.5°	1303.6	1297.6	1248.0	1176.2	1060.3	1038.2	925.7	843.0	848.3	930.2	1081.0
35°	1388.2	1396.1	1367.9	1315.3	1207.7	1187.1	1086.3	966.3	941.9	1022.7	1192.3
37.5°	1489.7	1491.6	1474.0	1439.7	1362.7	1345.7	1262.6	1097.9	1043.8	1121.3	1299.9
40°	1692.4	1662.7	1593.5	1566.5	1520.6	1510.1	1415.3	1218.6	1138.6	1222.4	1401.4
42.5°	1911.6	1865.4	1757.1	1712.7	1694.3	1684.5	1542.4	1299.1	1227.3	1323.6	1501.0
45°	2088.4	2050.8	1944.7	1889.8	1892.1	1876.3	1653.3	1370.9	1323.6	1425.1	1612.3
47.5°	2262.4	2199.7	2080.8	2072.9	2099.3	2075.9	1759.3	1442.7	1423.9	1535.6	1723.6
50°	2273.7	2216.6	2168.4	2231.6	2276.7	2247.8	1855.6	1536.7	1528.1	1669.5	1867.3
52.5°	2136.5	2128.2	2201.5	2307.9	2382.8	2356.8	1934.2	1633.4	1634.5	1836.8	2042.1
55°	2086.5	2075.9	2163.9	2294.8	2395.9	2380.5	1992.8	1742.4	1752.6	2039.8	2229.7
57.5°	2170.7	2144.4	2161.7	2270.0	2365.1	2356.1	2053.8	1863.5	1881.9	2273.7	2403.1
60°	2432.0	2378.3	2286.5	2306.8	2366.2	2361.0	2141.0	1998.5	2029.3	2517.4	2512.9
62.5°	2823.4	2762.5	2575.7	2485.4	2472.3	2462.1	2285.0	2164.3	2179.7	2693.4	2448.9
65°	3252.9	3187.4	2965.2	2817.4	2740.0	2718.2	2517.4	2364.3	2267.7	2693.0	2200.0
67.5°	3734.9	3665.7	3444.2	3303.2	3219.4	3182.2	2894.5	2526.0	2239.1	2465.1	1760.5
70°	4228.6	4162.8	4061.3	4110.5	4147.4	4090.6	3488.6	2579.8	2033.8	1932.7	1182.2
72.5°	3966.5	3961.3	4038.3	4505.3	5215.6	5226.9	4082.0	2427.9	1571.3	1148.7	630.2
73°	3723.2	3745.4	3888.3	4447.1	5307.0	5310.7	4093.6	2349.3	1442.7	989.7	553.5
75°	1928.9	2079.3	2609.5	3605.9	4914.1	4931.7	3608.6	1778.5	859.9	549.7	373.0
77.5°	516.6	509.9	840.8	1756.7	3276.2	3252.9	2280.1	861.1	412.1	344.8	261.7
80°	177.1	179.4	286.1	642.6	1529.2	1583.7	989.7	375.6	271.1	240.3	185.4
82.5°	90.2	93.3	149.7	273.4	639.6	626.1	318.5	221.1	181.6	145.9	103.8
85°	48.1	49.6	82.3	141.8	234.6	237.3	112.1	118.1	115.4	82.7	51.1
87.5°	23.7	24.4	39.5	62.4	86.9	83.8	39.1	51.1	56.8	46.6	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4
2.5°	890.4	890.4	895.3	903.5	909.6	915.2	919.0	925.0	928.4	928.0	927.6
5°	884.4	888.1	897.9	908.1	914.8	919.3	919.3	922.0	922.0	920.8	919.3
7.5°	870.5	876.9	891.1	900.2	902.0	897.2	887.4	879.9	870.5	865.6	863.7
10°	848.3	856.5	874.6	878.7	869.0	851.7	828.0	807.7	789.6	781.3	778.7
12.5°	826.5	837.4	854.3	847.9	824.6	790.7	754.3	726.4	706.1	698.2	695.6
15°	808.4	821.6	834.7	814.8	774.2	727.2	687.0	661.0	645.6	639.6	638.1
17.5°	796.4	811.8	816.3	779.1	722.7	670.0	634.3	617.4	610.6	608.0	607.3
20°	797.1	814.4	803.5	744.5	673.1	620.0	596.3	591.5	591.5	591.5	591.1
22.5°	817.8	832.9	798.3	712.2	625.3	577.9	567.8	571.9	574.9	574.9	574.5
25°	860.7	869.0	802.0	681.0	580.6	541.5	541.8	549.7	552.4	552.4	551.6
27.5°	926.1	919.3	808.8	646.4	536.6	508.4	513.6	520.8	522.7	521.5	521.1
30°	1008.1	981.0	814.4	605.8	495.2	477.5	482.0	486.2	484.7	482.0	481.7
32.5°	1099.8	1043.8	811.1	560.3	458.7	445.6	448.2	450.5	448.2	441.8	441.8
35°	1190.8	1100.6	792.6	510.6	429.8	414.7	414.4	421.5	421.1	413.6	414.0
37.5°	1270.5	1145.3	756.9	465.1	405.0	392.2	393.7	398.2	400.4	390.3	389.2
40°	1340.1	1176.2	706.5	426.4	385.0	385.8	381.6	374.5	371.9	367.4	366.6
42.5°	1405.5	1197.6	653.1	394.1	374.9	383.5	369.6	352.7	345.6	349.7	352.3
45°	1469.8	1221.7	601.6	367.4	362.1	376.8	357.6	338.8	330.5	332.4	335.0
47.5°	1548.4	1255.1	539.6	338.8	342.5	364.4	350.1	329.8	317.4	309.8	307.6
50°	1651.8	1303.6	459.1	308.0	321.9	350.8	343.7	316.6	303.1	288.0	284.3
52.5°	1781.2	1349.5	377.9	283.1	304.9	339.2	333.1	305.3	288.8	270.7	267.7
55°	1910.1	1355.9	308.0	261.7	285.8	323.4	320.4	296.3	273.0	258.3	255.3
57.5°	2000.4	1295.4	261.0	243.7	267.3	303.8	308.7	285.4	259.8	248.5	246.7
60°	2001.9	1150.6	232.4	231.6	253.4	286.9	296.7	272.6	251.5	244.0	242.5
62.5°	1842.8	927.2	213.9	222.6	243.3	273.0	287.6	265.5	249.7	246.7	245.2
65°	1544.6	685.1	199.3	214.3	233.9	261.3	280.1	263.2	248.9	247.8	246.7
67.5°	1140.4	469.6	186.9	203.8	223.3	249.3	273.0	259.8	244.4	248.9	247.4
70°	717.4	313.6	175.2	191.8	209.4	235.4	263.6	253.8	238.8	236.1	231.2
72.5°	405.0	226.7	161.3	176.3	191.4	217.0	250.8	243.7	226.0	215.5	210.6
73°	365.9	214.7	157.9	172.6	187.3	213.2	247.8	240.6	222.2	210.6	206.1
75°	267.7	175.6	142.5	157.2	170.0	195.9	233.5	225.6	205.7	191.8	188.8
77.5°	194.0	135.4	122.6	135.7	147.0	171.8	212.1	203.0	183.5	176.0	173.0
80°	139.9	102.7	101.5	114.3	124.1	149.3	189.1	179.7	160.9	183.1	178.2
82.5°	83.5	65.8	74.4	88.7	98.9	125.2	164.3	153.4	135.4	136.9	116.6
85°	39.9	37.2	46.2	58.3	65.4	85.7	136.9	128.2	108.3	88.7	86.9
87.5°	17.7	16.9	22.2	25.9	35.0	51.5	93.6	83.1	78.6	47.0	36.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)