

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: P198630

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198630
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 5395 lumens
Efficiency: N/A
Efficacy: 93.0 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

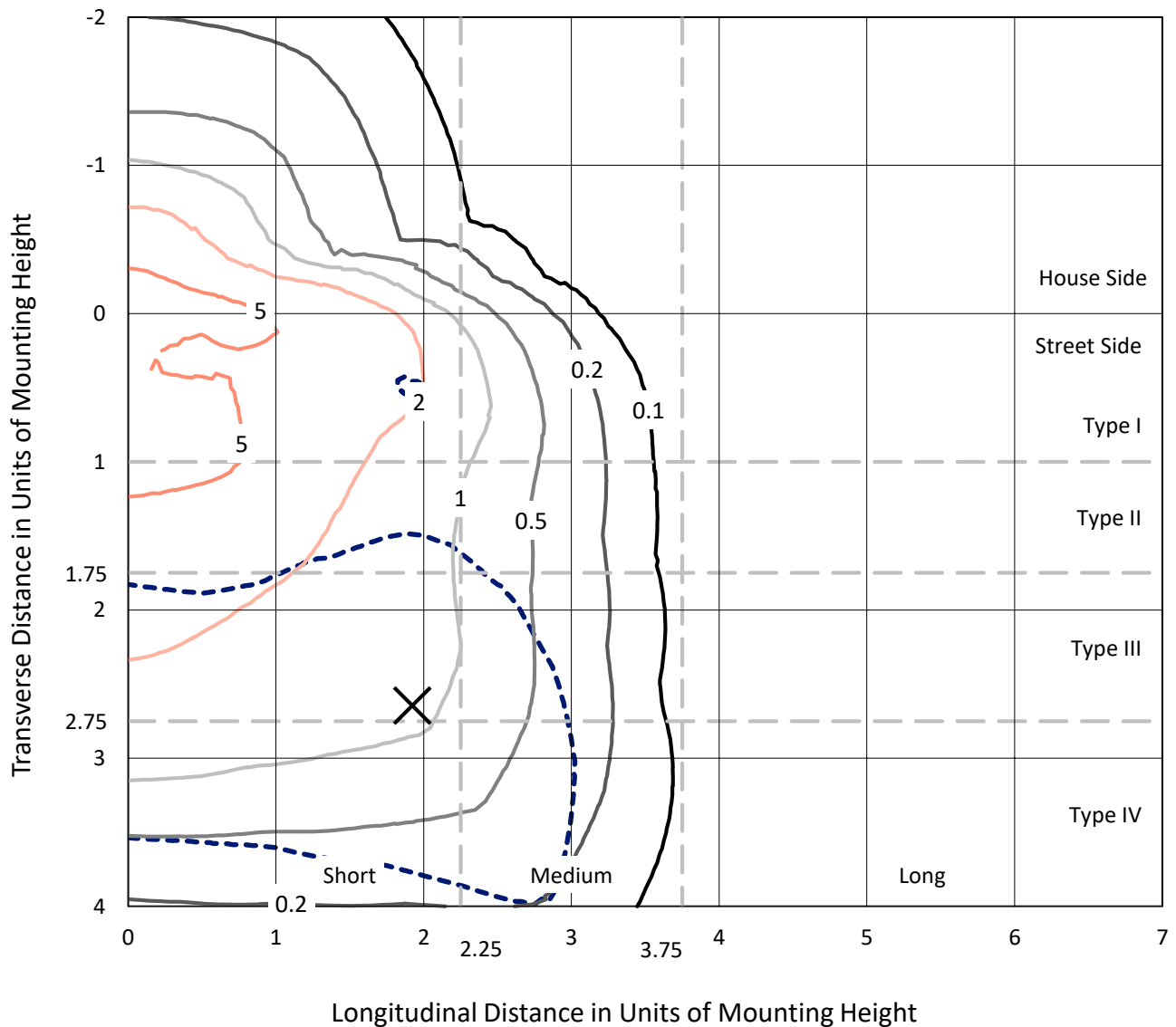
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

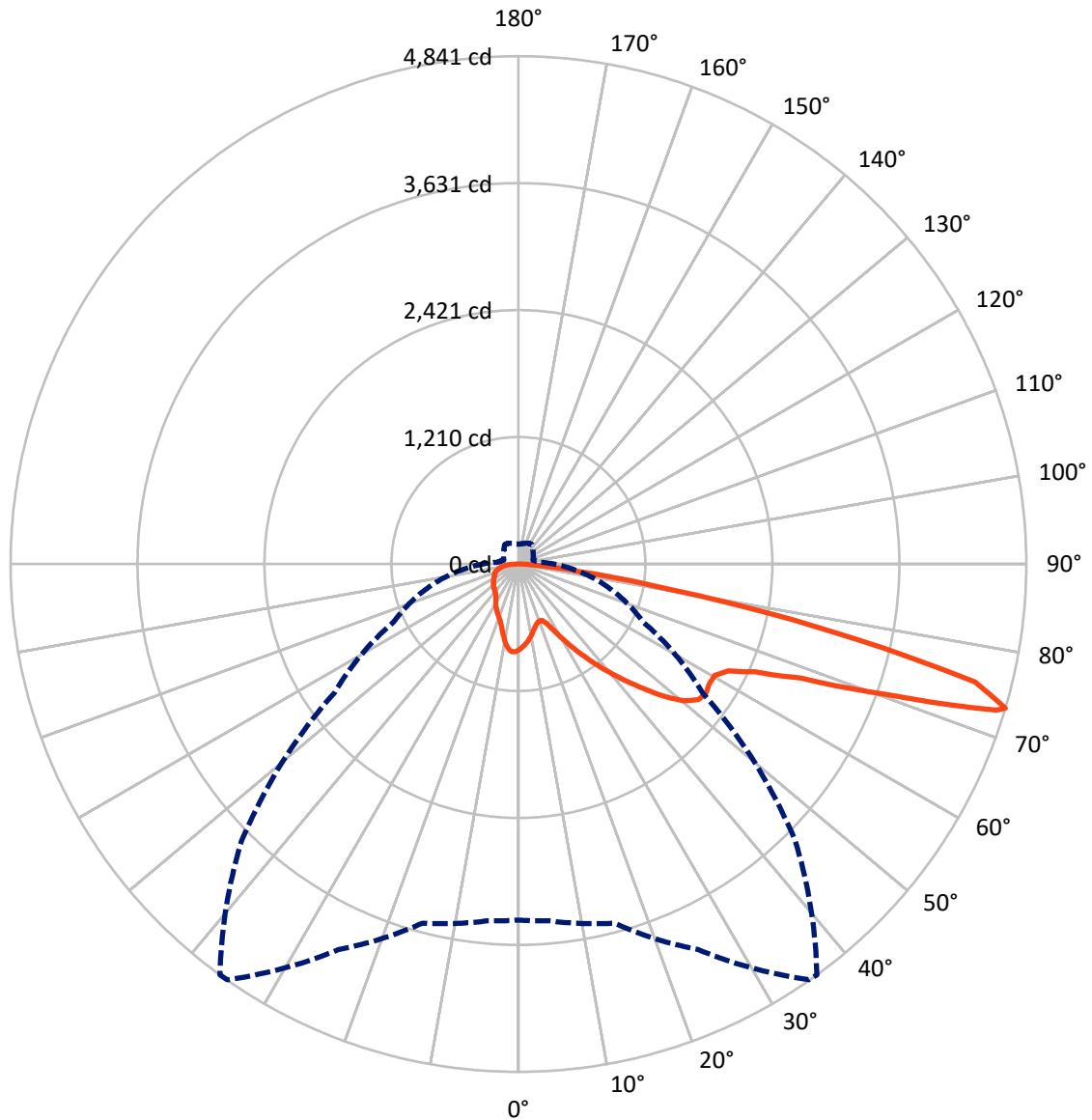
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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	1040.3	0.0	1040.3
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	4354.7	0.0	4354.7
	% Fixture	80.7	0.0	80.7
Total	Lumens	5395.0	0.0	5395.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	1.4
10°-20°	186.4	3.5
20°-30°	298.9	5.5
30°-40°	494.4	9.2
40°-50°	765.0	14.2
50°-60°	1024.1	19.0
60°-70°	1337.8	24.8
70°-80°	1092.7	20.3
80°-90°	121.6	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°	5395.0	100.0
0°-180°	5395.0	100.0



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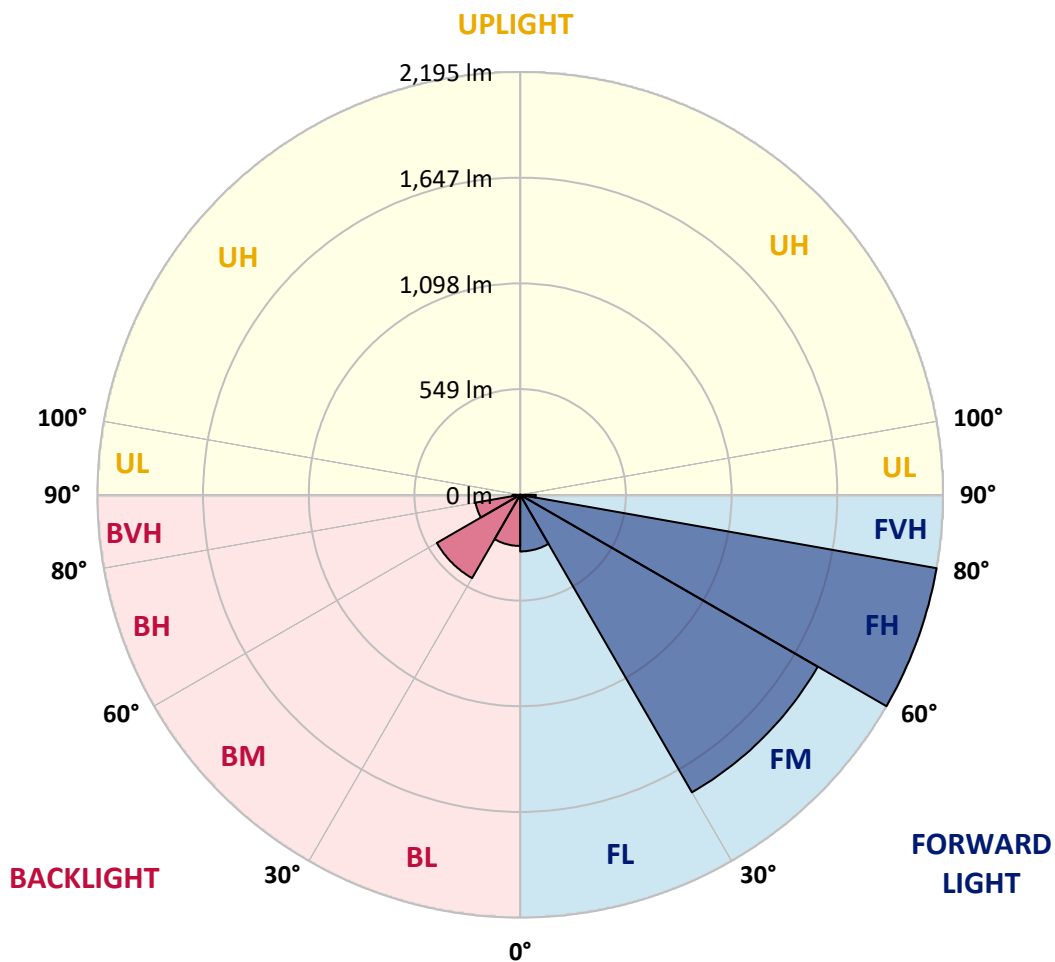
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	294.0	5.4			
FM (30°-60°)	1783.8	33.1			
FH (60°-80°)	2195.4	40.7			G2/5000
FVH (80°-90°)	81.6	1.5			G1/100
BL (0°-30°)	265.6	4.9	B1/500		
BM (30°-60°)	499.6	9.3	B1/1000		
BH (60°-80°)	235.1	4.4	B1/500		G1/500
BVH (80°-90°)	40.1	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°	817.2	817.2	817.2	817.2	817.2	817.2	817.2	817.2	817.2	817.2	817.2
2.5°	786.0	788.0	788.4	790.8	790.8	790.4	791.5	795.6	797.6	802.4	806.6
5°	747.3	749.7	750.7	754.8	759.9	760.3	764.1	771.9	779.5	790.1	799.0
7.5°	703.7	706.5	709.2	717.8	725.3	726.0	733.2	745.9	755.8	768.9	785.0
10°	661.6	662.2	665.0	676.0	685.9	686.9	697.2	711.6	725.0	743.1	761.3
12.5°	626.9	629.0	628.3	636.5	645.1	645.8	659.5	677.7	697.2	717.8	739.4
15°	614.9	614.6	607.4	607.1	610.8	611.5	624.9	646.1	668.1	693.4	721.2
17.5°	623.2	620.4	601.6	589.9	587.5	588.2	598.1	621.5	644.8	673.9	707.2
20°	668.4	657.8	613.6	585.5	577.6	577.6	583.4	602.3	628.0	661.9	703.7
22.5°	775.7	759.3	665.0	614.9	587.2	584.4	580.0	594.4	622.8	663.6	717.8
25°	910.8	902.9	759.3	693.4	636.2	627.3	597.8	602.9	633.5	682.1	756.2
27.5°	1035.9	1022.2	883.0	807.6	726.7	713.0	650.6	629.7	658.8	716.4	811.7
30°	1108.9	1099.6	1010.2	938.2	841.9	824.4	734.9	682.5	704.1	773.0	890.5
32.5°	1188.4	1182.9	1137.7	1072.2	966.6	946.4	843.9	768.5	773.3	848.0	985.5
35°	1265.5	1272.7	1247.0	1199.0	1101.0	1082.2	990.3	880.9	858.7	932.4	1087.0
37.5°	1358.1	1359.8	1343.7	1312.5	1242.2	1226.8	1151.1	1000.9	951.6	1022.2	1185.0
40°	1542.8	1515.8	1452.7	1428.0	1386.2	1376.6	1290.2	1110.9	1037.9	1114.4	1277.5
42.5°	1742.7	1700.5	1601.8	1561.4	1544.6	1535.7	1406.1	1184.3	1118.8	1206.6	1368.4
45°	1903.8	1869.5	1772.9	1722.8	1724.9	1710.5	1507.2	1249.8	1206.6	1299.1	1469.8
47.5°	2062.5	2005.3	1896.9	1889.7	1913.7	1892.5	1603.9	1315.2	1298.1	1399.9	1571.3
50°	2072.8	2020.7	1976.8	2034.4	2075.5	2049.1	1691.6	1400.9	1393.1	1521.9	1702.2
52.5°	1947.7	1940.1	2007.0	2104.0	2172.2	2148.5	1763.3	1489.0	1490.1	1674.5	1861.6
55°	1902.1	1892.5	1972.7	2092.0	2184.2	2170.1	1816.7	1588.4	1597.7	1859.6	2032.7
57.5°	1978.9	1954.9	1970.6	2069.4	2156.1	2147.9	1872.3	1698.8	1715.6	2072.8	2190.7
60°	2217.1	2168.1	2084.4	2103.0	2157.1	2152.3	1951.8	1821.9	1850.0	2294.9	2290.8
62.5°	2573.9	2518.4	2348.0	2265.8	2253.8	2244.5	2083.1	1973.0	1987.1	2455.3	2232.5
65°	2965.4	2905.7	2703.2	2568.4	2497.8	2478.0	2294.9	2155.4	2067.3	2455.0	2005.6
67.5°	3404.8	3341.8	3139.9	3011.3	2934.9	2900.9	2638.7	2302.8	2041.3	2247.3	1604.9
70°	3854.9	3794.9	3702.4	3747.3	3780.9	3729.1	3180.3	2351.8	1854.1	1761.9	1077.7
72.5°	3616.0	3611.2	3681.4	4107.2	4754.7	4765.0	3721.2	2213.3	1432.5	1047.2	574.5
73°	3394.2	3414.4	3544.7	4054.0	4838.0	4841.4	3731.8	2141.7	1315.2	902.2	504.6
75°	1758.5	1895.6	2378.9	3287.3	4479.8	4495.9	3289.7	1621.3	783.9	501.1	340.0
77.5°	471.0	464.8	766.5	1601.5	2986.6	2965.4	2078.6	785.0	375.7	314.3	238.6
80°	161.4	163.5	260.9	585.8	1394.1	1443.8	902.2	342.4	247.1	219.0	169.0
82.5°	82.3	85.0	136.4	249.2	583.1	570.7	290.3	201.6	165.6	133.0	94.6
85°	43.9	45.2	75.1	129.2	213.9	216.3	102.1	107.6	105.2	75.4	46.6
87.5°	21.6	22.3	36.0	56.9	79.2	76.4	35.6	46.6	51.8	42.5	25.7
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°	817.2	817.2	817.2	817.2	817.2	817.2	817.2	817.2	817.2	817.2	817.2
2.5°	811.7	811.7	816.2	823.7	829.2	834.3	837.8	843.2	846.3	846.0	845.6
5°	806.2	809.6	818.6	827.8	834.0	838.1	838.1	840.5	840.5	839.5	838.1
7.5°	793.5	799.4	812.4	820.6	822.3	817.9	809.0	802.1	793.5	789.1	787.4
10°	773.3	780.9	797.3	801.1	792.2	776.4	754.8	736.3	719.8	712.3	709.9
12.5°	753.4	763.4	778.8	773.0	751.7	720.9	687.6	662.2	643.7	636.5	634.1
15°	737.0	749.0	761.0	742.8	705.8	662.9	626.3	602.6	588.6	583.1	581.7
17.5°	726.0	740.1	744.2	710.2	658.8	610.8	578.3	562.8	556.7	554.3	553.6
20°	726.7	742.5	732.5	678.7	613.6	565.2	543.6	539.2	539.2	539.2	538.8
22.5°	745.5	759.3	727.7	649.2	570.0	526.9	517.6	521.4	524.1	524.1	523.8
25°	784.6	792.2	731.1	620.8	529.3	493.6	493.9	501.1	503.5	503.5	502.9
27.5°	844.3	838.1	737.3	589.2	489.1	463.4	468.2	474.7	476.5	475.4	475.1
30°	919.0	894.3	742.5	552.2	451.4	435.3	439.4	443.2	441.8	439.4	439.1
32.5°	1002.6	951.6	739.4	510.7	418.2	406.2	408.6	410.6	408.6	402.8	402.8
35°	1085.6	1003.3	722.6	465.5	391.8	378.1	377.7	384.3	383.9	377.1	377.4
37.5°	1158.3	1044.1	690.0	424.0	369.2	357.5	358.9	363.0	365.1	355.8	354.8
40°	1221.7	1072.2	644.1	388.7	351.0	351.7	347.9	341.4	339.0	334.9	334.2
42.5°	1281.3	1091.8	595.4	359.2	341.8	349.6	337.0	321.5	315.0	318.8	321.2
45°	1339.9	1113.7	548.4	334.9	330.1	343.5	326.0	308.8	301.3	303.0	305.4
47.5°	1411.6	1144.2	491.9	308.8	312.3	332.2	319.1	300.6	289.3	282.5	280.4
50°	1505.8	1188.4	418.5	280.7	293.4	319.8	313.3	288.6	276.3	262.6	259.1
52.5°	1623.7	1230.2	344.5	258.1	278.0	309.2	303.7	278.3	263.3	246.8	244.1
55°	1741.3	1236.1	280.7	238.6	260.5	294.8	292.0	270.1	248.9	235.5	232.7
57.5°	1823.6	1180.9	237.9	222.1	243.7	277.0	281.4	260.2	236.9	226.6	224.9
60°	1825.0	1048.9	211.8	211.2	231.0	261.5	270.5	248.5	229.3	222.5	221.1
62.5°	1680.0	845.3	195.0	202.9	221.8	248.9	262.2	242.0	227.6	224.9	223.5
65°	1408.1	624.5	181.7	195.4	213.2	238.2	255.4	239.9	226.9	225.9	224.9
67.5°	1039.6	428.1	170.4	185.8	203.6	227.3	248.9	236.9	222.8	226.9	225.5
70°	654.0	285.9	159.7	174.8	190.9	214.6	240.3	231.4	217.7	215.3	210.8
72.5°	369.2	206.7	147.1	160.8	174.5	197.8	228.6	222.1	206.0	196.4	192.0
73°	333.5	195.7	144.0	157.3	170.7	194.4	225.9	219.4	202.6	192.0	187.8
75°	244.1	160.1	129.9	143.3	154.9	178.6	212.9	205.7	187.5	174.8	172.1
77.5°	176.9	123.4	111.7	123.7	134.0	156.7	193.3	185.1	167.3	160.4	157.7
80°	127.5	93.6	92.6	104.2	113.1	136.1	172.4	163.8	146.7	166.9	162.5
82.5°	76.1	60.0	67.9	80.9	90.2	114.1	149.8	139.9	123.4	124.8	106.3
85°	36.3	33.9	42.2	53.1	59.6	78.2	124.8	116.9	98.7	80.9	79.2
87.5°	16.1	15.4	20.2	23.7	31.9	47.0	85.4	75.8	71.6	42.8	33.6
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)