

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: P271265

Luminaire Tested: **XNV-AF-01-LED-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
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-T3-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5255.8 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

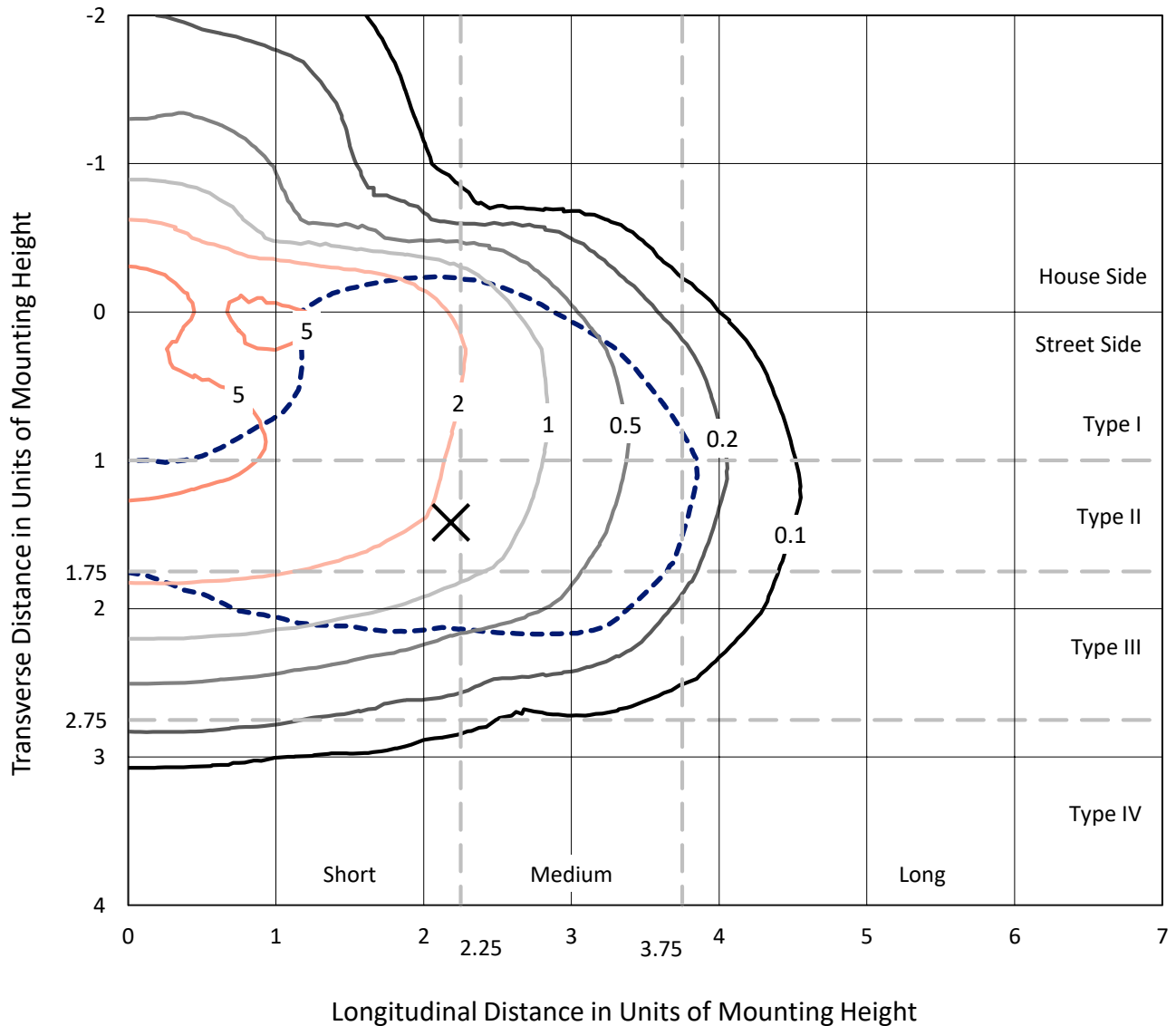
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

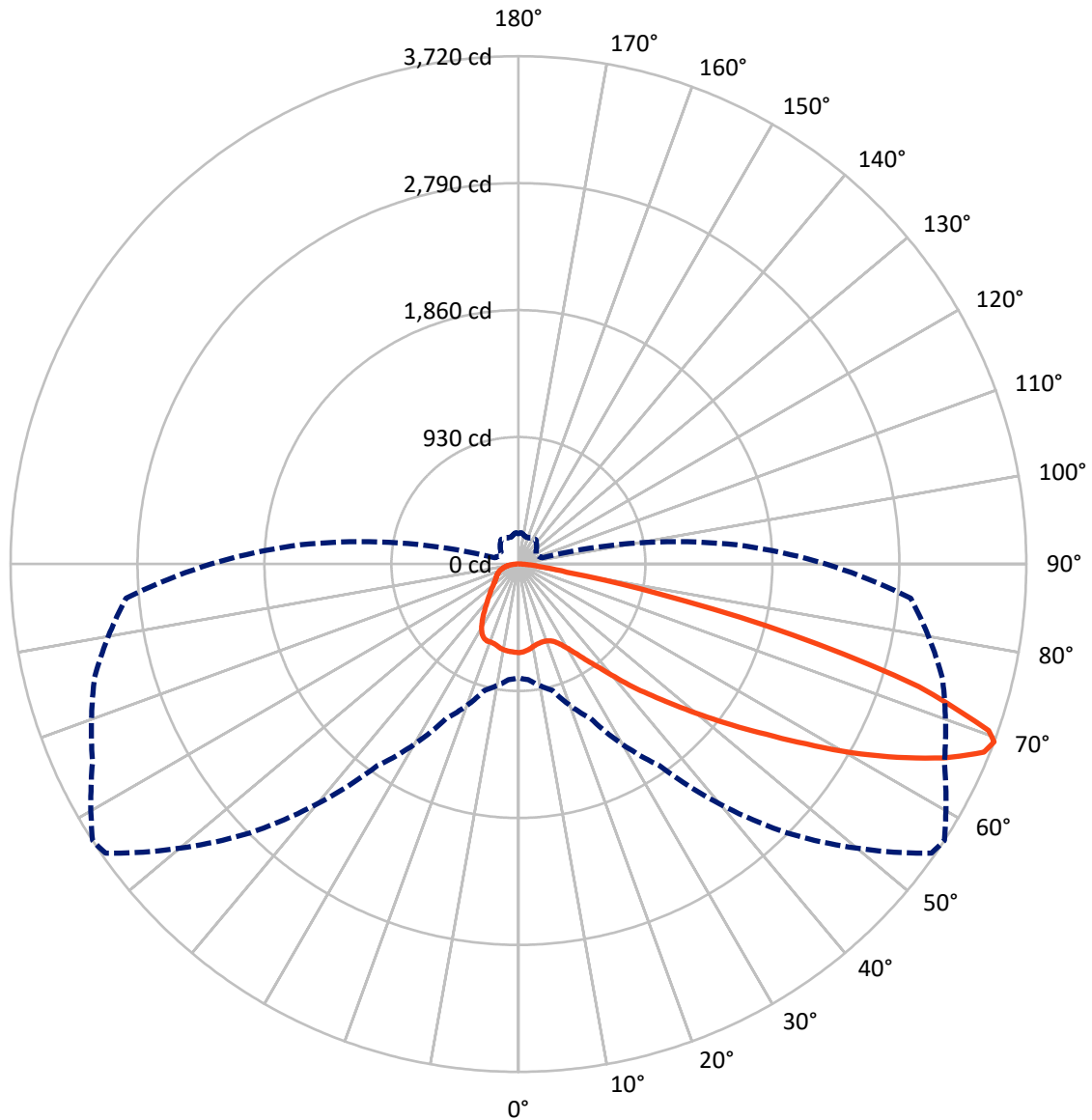
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.8	0.0	1159.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	4096.0	0.0	4096.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	5255.8	0.0	5255.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.2
10°-20°	172.9	3.3
20°-30°	287.6	5.5
30°-40°	469.6	8.9
40°-50°	792.5	15.1
50°-60°	1232.8	23.5
60°-70°	1468.6	27.9
70°-80°	684.1	13.0
80°-90°	87.0	1.7
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°	5255.8	100.0
0°-180°	5255.8	100.0



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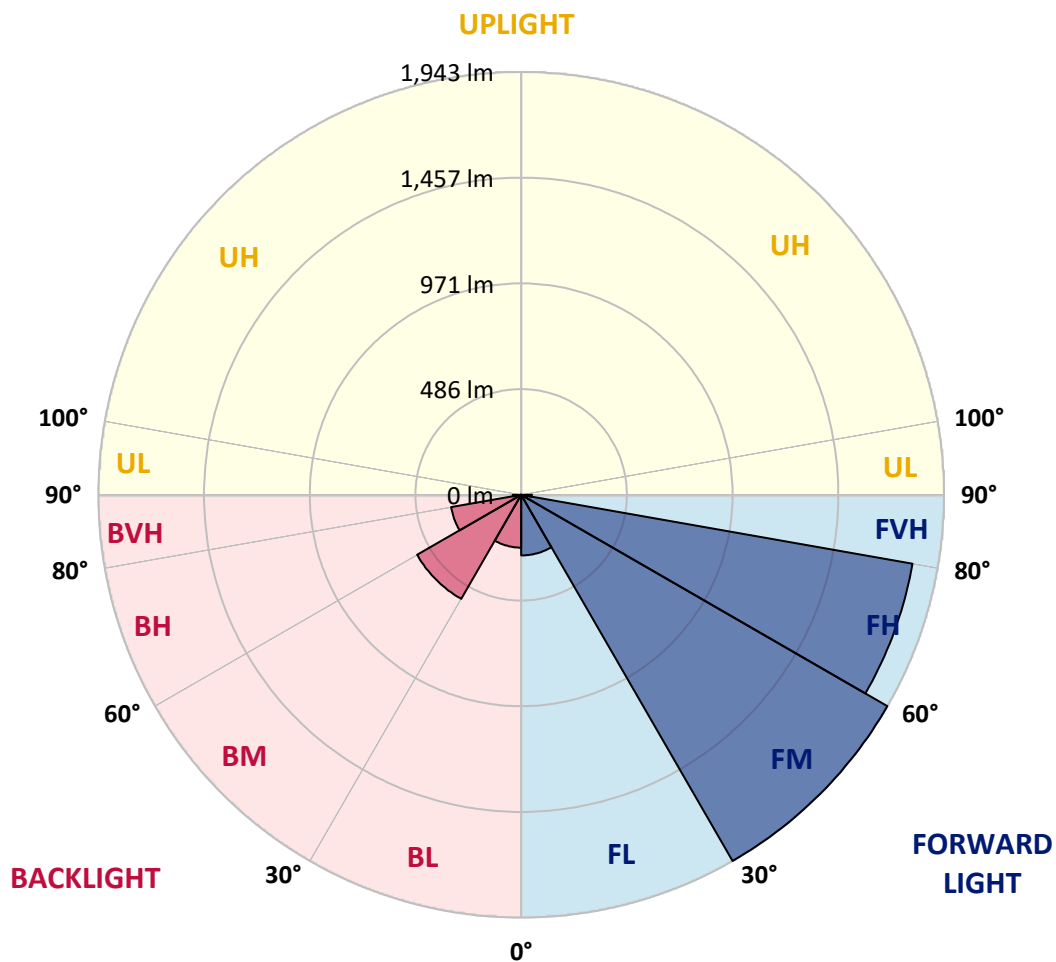
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.3	5.3			
FM (30°-60°)	1942.9	37.0			
FH (60°-80°)	1825.9	34.7			G2/5000
FVH (80°-90°)	48.9	0.9			G1/100
BL (0°-30°)	242.9	4.6	B1/500		
BM (30°-60°)	552.0	10.5	B1/1000		
BH (60°-80°)	326.8	6.2	B1/500		G1/500
BVH (80°-90°)	38.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5
2.5°	645.7	645.7	647.4	647.4	647.4	646.7	644.8	645.3	644.1	642.9	641.3
5°	632.5	633.2	635.3	635.9	637.0	637.3	637.3	637.0	637.3	637.3	636.3
7.5°	614.4	615.1	617.5	618.8	621.8	624.5	625.8	625.8	627.6	628.9	629.3
10°	603.3	603.3	604.6	604.6	607.1	608.3	612.7	612.5	617.1	621.4	623.6
12.5°	602.0	602.0	601.2	598.9	597.6	597.3	601.7	602.4	609.4	617.1	620.8
15°	606.4	606.4	604.3	599.6	594.6	592.3	596.6	597.9	605.6	614.8	620.5
17.5°	620.5	620.1	615.8	606.4	597.6	593.9	595.2	596.6	603.7	614.1	621.2
20°	651.8	651.8	642.4	625.2	610.0	601.2	599.3	600.2	605.4	615.1	624.2
22.5°	706.5	707.7	690.7	662.5	636.5	618.2	610.0	611.0	613.5	622.9	632.9
25°	787.4	784.7	760.8	720.7	680.3	648.8	632.2	633.2	633.2	642.0	652.3
27.5°	872.9	873.5	839.1	796.1	743.0	695.8	669.5	669.2	668.9	677.3	688.5
30°	969.5	969.7	930.0	880.2	819.3	759.1	719.7	719.5	716.4	726.8	741.3
32.5°	1075.0	1074.7	1028.6	972.4	904.9	836.5	785.4	784.9	782.7	796.7	814.3
35°	1192.1	1192.1	1146.3	1077.1	1004.0	927.9	868.8	868.4	869.7	889.1	905.5
37.5°	1333.2	1336.1	1281.1	1196.8	1117.1	1036.0	967.0	965.0	955.0	987.2	1014.5
40°	1480.1	1488.6	1431.4	1333.2	1246.9	1163.2	1087.2	1085.8	1077.1	1111.5	1155.5
42.5°	1639.3	1658.5	1594.9	1494.7	1400.7	1310.3	1233.9	1230.1	1196.5	1250.0	1319.0
45°	1848.0	1860.4	1768.3	1677.3	1588.8	1485.5	1394.7	1374.9	1341.2	1409.9	1499.5
47.5°	1989.9	1983.8	1926.3	1865.5	1808.6	1709.7	1570.0	1544.7	1503.8	1594.6	1693.1
50°	2078.0	2082.5	2050.2	2047.1	2044.2	1975.2	1767.9	1737.6	1690.2	1797.8	1912.9
52.5°	2136.3	2116.4	2122.2	2190.8	2273.9	2240.9	1991.6	1957.9	1909.2	2016.9	2146.8
55°	2112.1	2085.9	2138.7	2273.9	2469.4	2476.8	2237.3	2202.6	2161.0	2249.7	2428.1
57.5°	2011.8	2025.0	2108.4	2296.4	2603.0	2688.2	2519.6	2484.3	2402.2	2492.3	2695.3
60°	1870.8	1897.4	2025.0	2260.9	2696.5	2852.7	2829.5	2805.9	2664.6	2728.5	2975.8
62.5°	1719.4	1745.6	1902.5	2199.9	2654.5	2998.5	3133.6	3119.2	2954.3	2956.1	3153.8
65°	1495.7	1506.5	1666.5	2033.8	2537.7	3130.0	3438.2	3425.3	3231.3	3150.1	3203.6
67.5°	1129.6	1143.1	1274.5	1605.4	2182.4	3058.5	3681.4	3679.4	3397.7	3222.1	3085.1
69°	834.2	850.7	958.0	1246.3	1804.5	2786.7	3692.9	3720.2	3442.8	3214.8	2884.9
70°	610.4	629.3	728.4	989.3	1503.0	2486.6	3594.9	3653.5	3425.7	3168.0	2729.0
72.5°	259.4	265.8	314.5	446.5	762.5	1499.5	2944.6	3067.7	3093.9	2838.6	2131.9
75°	162.6	164.5	183.8	229.2	339.2	620.1	1906.8	2074.7	2309.9	2202.3	1427.3
77.5°	122.4	124.1	135.3	157.8	210.7	231.6	884.7	1054.9	1323.1	1295.4	710.3
80°	93.9	95.0	102.2	114.8	148.4	145.0	287.0	360.7	552.2	487.2	251.3
82.5°	73.8	74.0	80.4	82.7	103.7	97.6	144.0	160.4	223.0	185.4	122.8
85°	65.2	66.3	72.8	60.5	66.3	58.8	79.1	85.8	118.4	111.7	46.4
87.5°	33.2	35.0	60.9	51.8	33.2	27.9	34.7	37.4	48.1	52.1	22.5
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°	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5
2.5°	641.7	642.0	642.9	644.8	647.4	650.7	654.8	658.8	661.2	662.9	662.2
5°	636.3	636.5	638.6	641.7	645.1	650.1	656.8	661.8	665.6	667.9	667.6
7.5°	629.5	630.6	634.7	637.9	642.6	646.7	652.1	656.8	660.6	662.9	662.5
10°	624.5	625.5	630.6	634.9	639.0	639.7	638.6	637.3	637.0	638.6	637.9
12.5°	622.2	624.2	628.9	631.9	630.3	623.9	616.4	613.5	612.5	615.8	616.1
15°	622.9	624.5	628.5	626.6	617.5	606.6	602.7	605.0	607.1	609.1	609.4
17.5°	624.5	625.5	626.6	619.1	606.4	599.3	597.9	595.5	589.5	586.1	585.9
20°	627.6	628.9	627.1	615.3	604.0	594.6	578.4	564.0	550.1	542.8	539.7
22.5°	637.9	639.0	633.9	622.4	605.0	574.3	541.8	516.9	495.7	484.1	479.9
25°	658.5	660.2	653.1	638.6	592.9	539.4	493.3	459.7	433.1	419.2	415.6
27.5°	694.5	696.1	688.5	650.7	564.7	492.6	436.8	403.5	380.5	368.8	367.0
30°	748.4	750.8	743.6	650.5	521.6	433.1	381.6	362.0	348.9	340.8	340.5
32.5°	823.0	831.8	802.8	639.0	468.3	372.8	339.9	333.1	326.8	321.4	321.4
35°	917.9	938.5	861.4	615.1	409.8	331.7	316.7	310.3	302.2	296.4	295.7
37.5°	1031.3	1063.2	903.2	572.7	359.3	311.9	302.5	292.0	279.3	268.1	265.4
40°	1187.1	1194.4	923.6	503.7	321.7	301.1	289.3	276.3	260.1	247.7	246.3
42.5°	1343.5	1319.3	919.7	429.7	300.2	291.4	275.9	261.4	246.9	236.6	236.6
45°	1521.5	1428.3	889.1	355.3	280.6	280.4	263.5	249.6	238.6	230.9	229.2
47.5°	1691.9	1526.3	836.1	300.5	260.5	269.2	255.4	244.2	234.2	226.8	225.5
50°	1898.4	1639.6	780.0	262.1	240.9	259.4	252.1	246.3	236.6	223.8	222.4
52.5°	2103.7	1772.3	736.6	233.2	223.8	251.6	254.0	254.7	245.6	220.8	219.0
55°	2324.1	1913.8	690.7	210.7	209.7	248.0	258.7	258.2	253.7	221.4	218.6
57.5°	2533.7	2056.2	622.4	194.8	198.5	244.2	259.8	249.0	241.3	224.8	220.4
60°	2707.3	2174.0	522.3	183.8	189.2	237.0	253.1	237.0	223.8	224.0	220.1
62.5°	2791.8	2207.0	399.3	170.9	181.4	224.8	243.4	227.8	215.8	225.5	223.0
65°	2727.6	2113.2	284.7	159.2	171.9	210.7	237.5	220.1	211.6	232.2	229.4
67.5°	2496.7	1857.3	206.6	148.7	162.9	196.2	226.8	213.0	207.6	237.2	231.1
69°	2251.4	1603.7	179.0	142.7	156.5	188.5	219.7	209.2	204.5	230.1	221.4
70°	2047.4	1408.2	165.2	139.0	151.1	184.1	214.3	206.9	201.6	221.7	211.3
72.5°	1468.1	910.3	139.0	127.9	136.9	174.4	202.6	198.2	190.1	200.2	193.4
75°	886.9	475.2	118.0	116.4	122.1	160.8	188.7	183.3	175.3	176.2	173.0
77.5°	407.6	219.4	99.0	102.9	106.7	144.0	171.9	165.8	158.6	155.8	156.1
80°	178.7	128.2	82.7	87.9	89.8	129.5	153.8	147.1	139.0	153.4	142.3
82.5°	96.6	74.4	64.6	68.0	73.8	112.6	133.6	124.9	117.0	136.3	110.0
85°	39.0	38.0	43.7	47.2	51.2	81.0	111.7	102.6	93.2	83.5	81.4
87.5°	16.8	18.1	21.5	22.8	27.3	50.5	75.1	65.7	65.9	56.6	55.5
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)