

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: McGRAW-EDISON

Report Number: P528141

Luminaire Tested: **GALN-SA3B-722-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-722-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7594 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

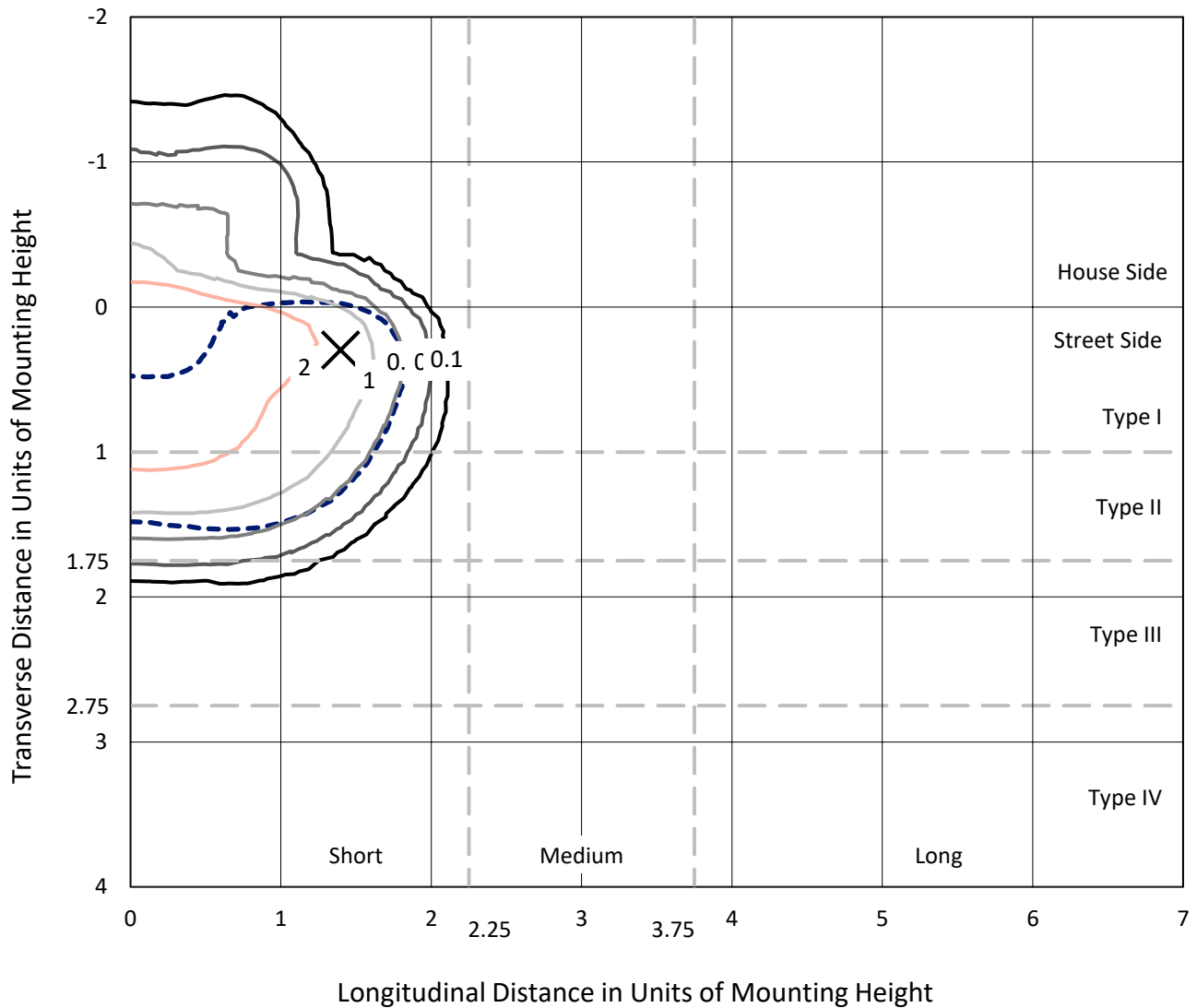
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

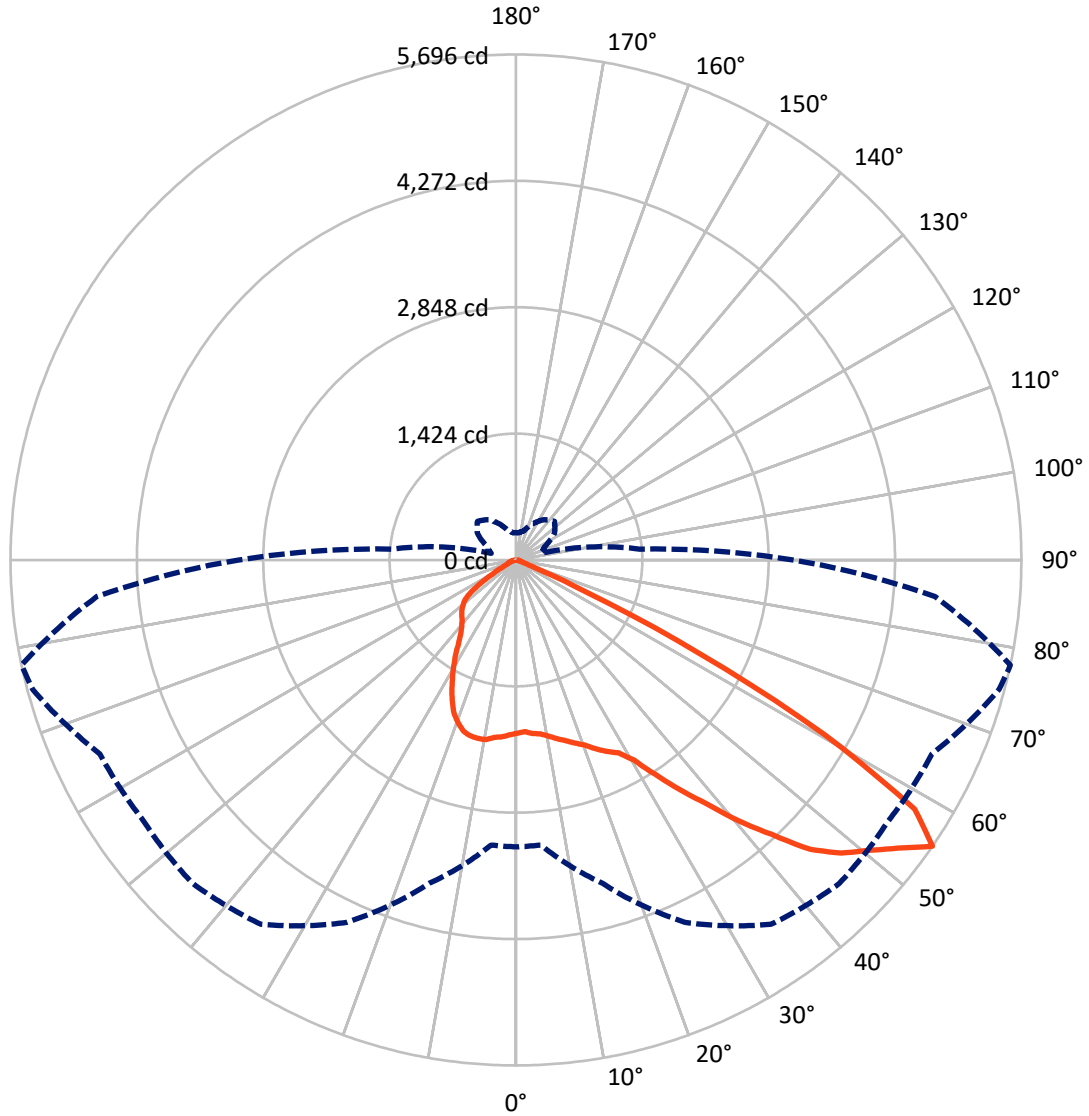
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1410.5	0.0	1410.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6183.5	0.0	6183.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	7594.0	0.0	7594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	2.3
10°-20°	460.7	6.1
20°-30°	807.6	10.6
30°-40°	1331.6	17.5
40°-50°	1937.7	25.5
50°-60°	2195.6	28.9
60°-70°	627.8	8.3
70°-80°	48.7	0.6
80°-90°	10.1	0.1
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°	7594.0	100.0
0°-180°	7594.0	100.0

Coefficient of Utilization



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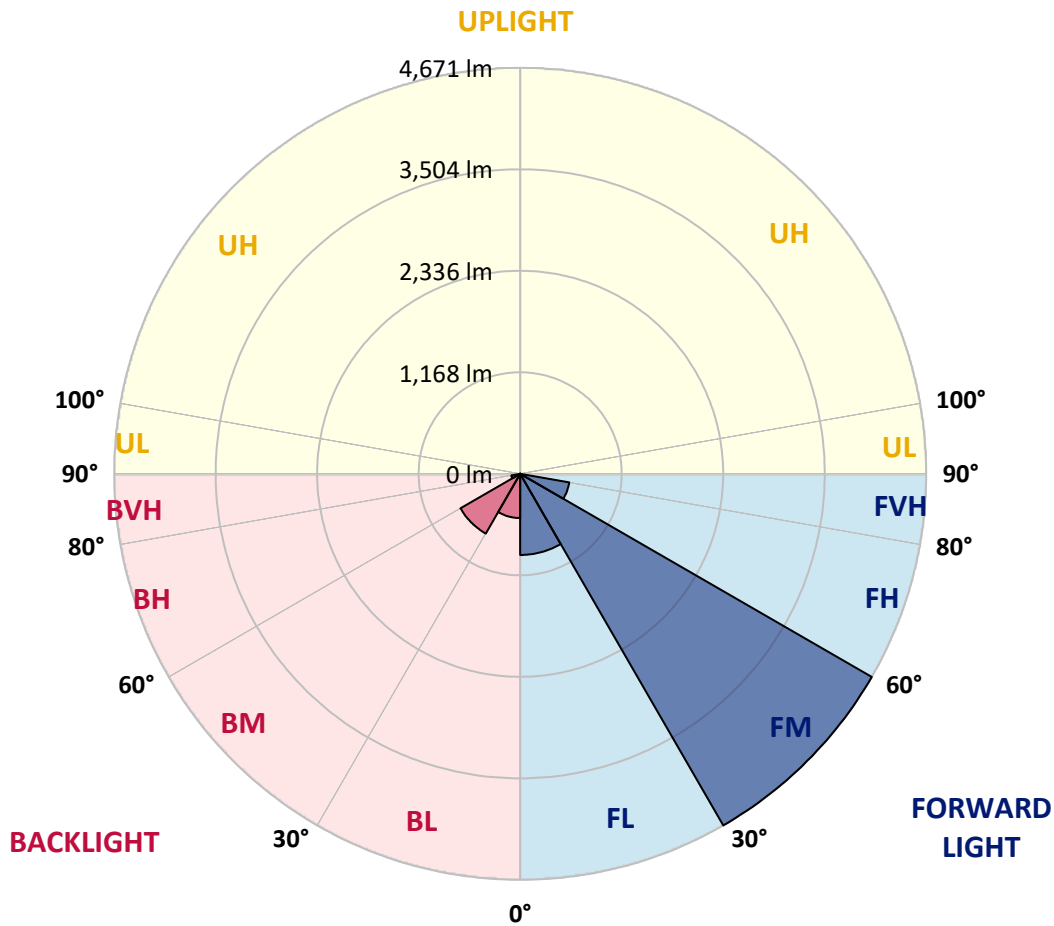
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.5	12.3			
FM (30°-60°)	4671.5	61.5			
FH (60°-80°)	573.5	7.6			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	508.9	6.7	B2/1000		
BM (30°-60°)	793.4	10.4	B1/1000		
BH (60°-80°)	103.0	1.4	B0/110		G0/110
BVH (80°-90°)	5.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4
2.5°	1835.7	1853.3	1856.0	1877.7	1876.4	1913.0	1923.9	1925.3	1949.7	1937.5	1968.7
5°	1784.1	1774.6	1770.5	1808.5	1819.4	1851.9	1879.1	1895.4	1945.6	1963.3	1995.9
7.5°	1737.9	1737.9	1740.6	1774.6	1770.5	1812.6	1841.1	1891.3	1964.6	1979.6	2019.0
10°	1693.1	1676.8	1697.2	1732.5	1762.3	1781.3	1841.1	1888.6	1974.1	2017.6	2071.9
12.5°	1670.0	1678.2	1680.9	1706.7	1739.3	1796.3	1828.9	1907.6	2042.0	2067.8	2126.2
15°	1815.3	1799.0	1759.6	1736.5	1763.7	1790.9	1872.3	1952.4	2077.3	2114.0	2179.2
17.5°	1983.6	1970.1	1937.5	1875.0	1813.9	1864.2	1928.0	2001.3	2115.3	2169.7	2266.1
20°	2203.6	2181.9	2149.3	2027.1	1974.1	1919.8	1987.7	2074.6	2177.8	2226.7	2325.8
22.5°	2465.6	2465.6	2392.3	2244.3	2134.4	2082.8	2111.3	2161.5	2247.1	2313.6	2411.3
25°	2738.5	2730.4	2663.9	2510.5	2324.4	2263.3	2295.9	2331.2	2354.3	2391.0	2456.1
27.5°	3050.8	3003.3	2919.1	2749.4	2585.1	2467.0	2502.3	2471.1	2442.6	2461.6	2555.3
30°	3262.6	3292.5	3185.2	3022.3	2867.5	2735.8	2742.6	2715.5	2585.1	2612.3	2667.9
32.5°	3482.6	3501.6	3441.9	3352.2	3197.5	3044.0	2988.4	2965.3	2867.5	2879.8	2825.4
35°	3665.9	3702.5	3649.6	3610.2	3565.4	3441.9	3288.4	3363.1	3205.6	3175.7	3034.5
37.5°	3834.2	3823.4	3885.8	3845.1	3835.6	3748.7	3580.3	3595.3	3489.4	3482.6	3319.7
40°	3985.0	3987.7	4073.2	4092.2	4054.2	3899.4	3655.0	3773.1	3858.7	3866.8	3657.7
42.5°	4109.9	4146.5	4219.8	4373.3	4316.2	4058.3	3732.4	3861.4	4179.1	4229.3	3978.2
45°	4218.5	4293.2	4384.1	4521.3	4488.7	4283.7	3925.2	4043.3	4521.3	4653.0	4279.6
47.5°	4225.3	4323.0	4422.1	4625.8	4666.5	4404.5	4124.8	4331.2	4792.8	4935.4	4499.5
50°	4198.1	4249.7	4447.9	4669.2	4761.6	4601.4	4404.5	4572.8	5056.2	5145.8	4610.9
52.5°	3876.3	3915.7	4313.5	4710.0	4932.6	4824.0	4775.2	4909.6	5325.0	5391.6	4715.4
55°	3231.4	3224.6	3771.8	4505.0	5011.4	5154.0	5124.1	5171.6	5636.0	5695.7	4741.2
57.5°	2210.4	2333.9	2806.4	3751.4	4529.4	5076.6	5107.8	5029.0	5273.4	5296.5	4132.9
60°	1192.1	1243.7	1623.9	2503.7	3448.6	4137.0	4218.5	4075.9	4056.9	3991.7	2950.4
62.5°	473.8	499.6	715.5	1239.6	1879.1	2514.5	2689.7	2631.3	2506.4	2335.3	1527.5
65°	225.4	241.7	355.7	579.8	833.6	1048.2	1223.3	1277.6	942.3	848.6	503.7
67.5°	153.4	165.6	259.3	331.3	297.3	310.9	404.6	376.1	221.3	188.7	139.8
70°	116.8	124.9	207.7	225.4	133.1	93.7	104.5	97.8	91.0	92.3	91.0
72.5°	82.8	89.6	152.1	133.1	58.4	43.4	55.7	66.5	66.5	66.5	65.2
75°	50.2	57.0	88.3	51.6	23.1	23.1	35.3	44.8	47.5	48.9	46.2
77.5°	25.8	32.6	29.9	14.9	14.9	17.7	25.8	31.2	33.9	33.9	32.6
80°	5.4	5.4	5.4	8.1	14.9	19.0	25.8	28.5	32.6	32.6	29.9
82.5°	0.0	1.4	4.1	8.1	13.6	17.7	24.4	28.5	32.6	33.9	31.2
85°	0.0	1.4	2.7	5.4	9.5	10.9	9.5	8.1	8.1	8.1	8.1
87.5°	0.0	0.0	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7
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°	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4	1952.4
2.5°	1971.4	1975.5	1968.7	1967.4	1961.9	1978.2	1938.8	1929.3	1953.8	1930.7	1936.1
5°	1997.2	2006.7	1994.5	1974.1	1944.3	1898.1	1858.7	1807.1	1782.7	1765.1	1762.3
7.5°	2016.2	2023.0	2010.8	1945.6	1856.0	1739.3	1652.4	1588.5	1538.3	1523.4	1498.9
10°	2093.6	2095.0	2033.9	1890.0	1714.8	1561.4	1428.3	1330.6	1280.3	1249.1	1235.5
12.5°	2145.2	2142.5	2019.0	1780.0	1546.5	1342.8	1190.7	1072.6	1026.4	1011.5	1002.0
15°	2210.4	2195.5	1983.6	1667.3	1329.2	1109.3	972.1	890.7	886.6	877.1	886.6
17.5°	2262.0	2219.9	1932.1	1462.3	1121.5	913.8	824.1	829.6	840.4	849.9	851.3
20°	2346.2	2259.3	1813.9	1283.1	928.7	783.4	782.1	806.5	833.6	844.5	855.4
22.5°	2410.0	2275.6	1687.7	1091.6	771.2	730.5	753.5	790.2	810.6	821.4	837.7
25°	2433.1	2230.8	1519.3	900.2	695.2	706.0	741.3	765.8	791.6	803.8	797.0
27.5°	2456.1	2207.7	1318.4	741.3	654.4	689.7	719.6	744.0	752.2	768.5	779.3
30°	2511.8	2127.6	1137.8	640.9	634.1	678.9	700.6	708.7	730.5	740.0	740.0
32.5°	2556.6	2096.3	946.3	593.3	631.3	684.3	687.0	687.0	689.7	682.9	680.2
35°	2648.9	1989.1	775.3	564.8	630.0	685.7	692.4	669.4	606.9	582.5	575.7
37.5°	2763.0	1919.8	649.0	558.0	639.5	701.9	712.8	625.9	544.5	505.1	498.3
40°	2901.5	1871.0	566.2	555.3	661.2	740.0	707.4	592.0	486.1	429.0	426.3
42.5°	3063.0	1826.2	510.5	554.0	688.4	779.3	701.9	563.5	426.3	388.3	393.7
45°	3192.0	1801.7	472.5	544.5	697.9	802.4	706.0	513.2	401.9	377.5	380.2
47.5°	3292.5	1750.1	441.3	528.2	696.5	810.6	669.4	492.9	389.7	396.5	403.2
50°	3295.2	1680.9	401.9	492.9	676.2	795.6	627.3	473.8	387.0	415.5	429.0
52.5°	3258.6	1583.1	359.8	442.6	628.6	744.0	589.3	465.7	374.7	372.0	388.3
55°	3128.2	1399.8	289.2	358.4	530.9	613.7	555.3	450.8	338.1	306.8	309.6
57.5°	2528.1	1003.4	213.2	256.6	376.1	449.4	501.0	444.0	304.1	260.7	262.0
60°	1565.5	568.9	156.1	175.1	232.2	272.9	406.0	412.8	271.5	220.0	217.2
62.5°	803.8	281.1	120.8	123.6	142.6	160.2	278.3	346.2	245.7	209.1	209.1
65°	268.8	138.5	105.9	95.0	95.0	99.1	168.4	240.3	207.7	175.1	175.1
67.5°	115.4	103.2	92.3	82.8	76.0	72.0	95.0	139.8	154.8	133.1	127.6
70°	89.6	86.9	80.1	69.2	59.7	54.3	55.7	72.0	88.3	85.5	82.8
72.5°	66.5	66.5	63.8	54.3	46.2	39.4	36.7	38.0	42.1	43.4	44.8
75°	46.2	47.5	47.5	42.1	33.9	28.5	24.4	20.4	16.3	13.6	12.2
77.5°	31.2	32.6	35.3	31.2	25.8	19.0	14.9	10.9	6.8	2.7	2.7
80°	27.2	31.2	33.9	31.2	27.2	20.4	14.9	8.1	4.1	0.0	0.0
82.5°	28.5	31.2	35.3	29.9	25.8	19.0	14.9	9.5	4.1	1.4	0.0
85°	6.8	6.8	8.1	9.5	12.2	13.6	10.9	6.8	4.1	1.4	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0	0.0
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)