

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: P529981

Luminaire Tested: **GALN-SA5A-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10735 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

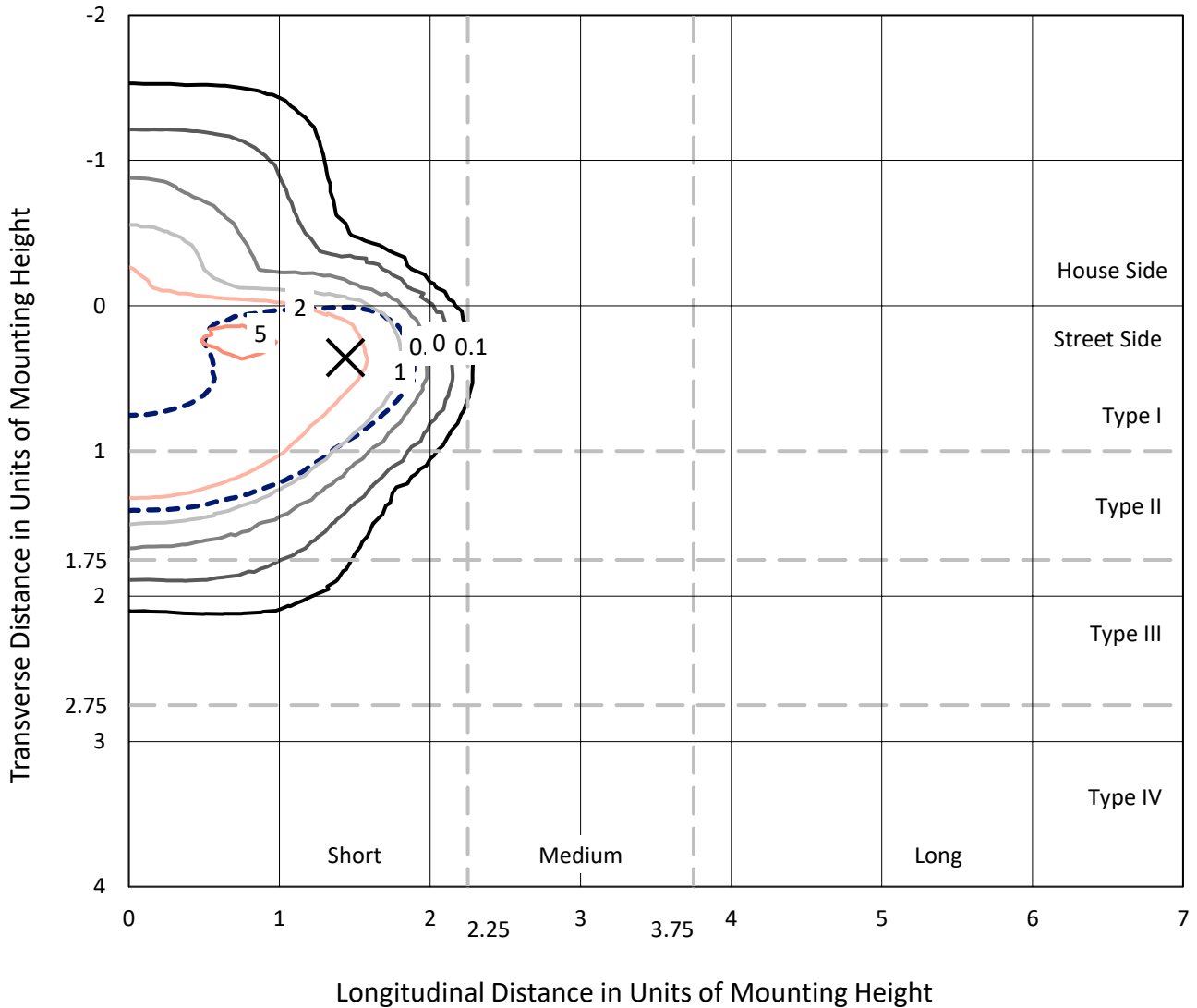
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

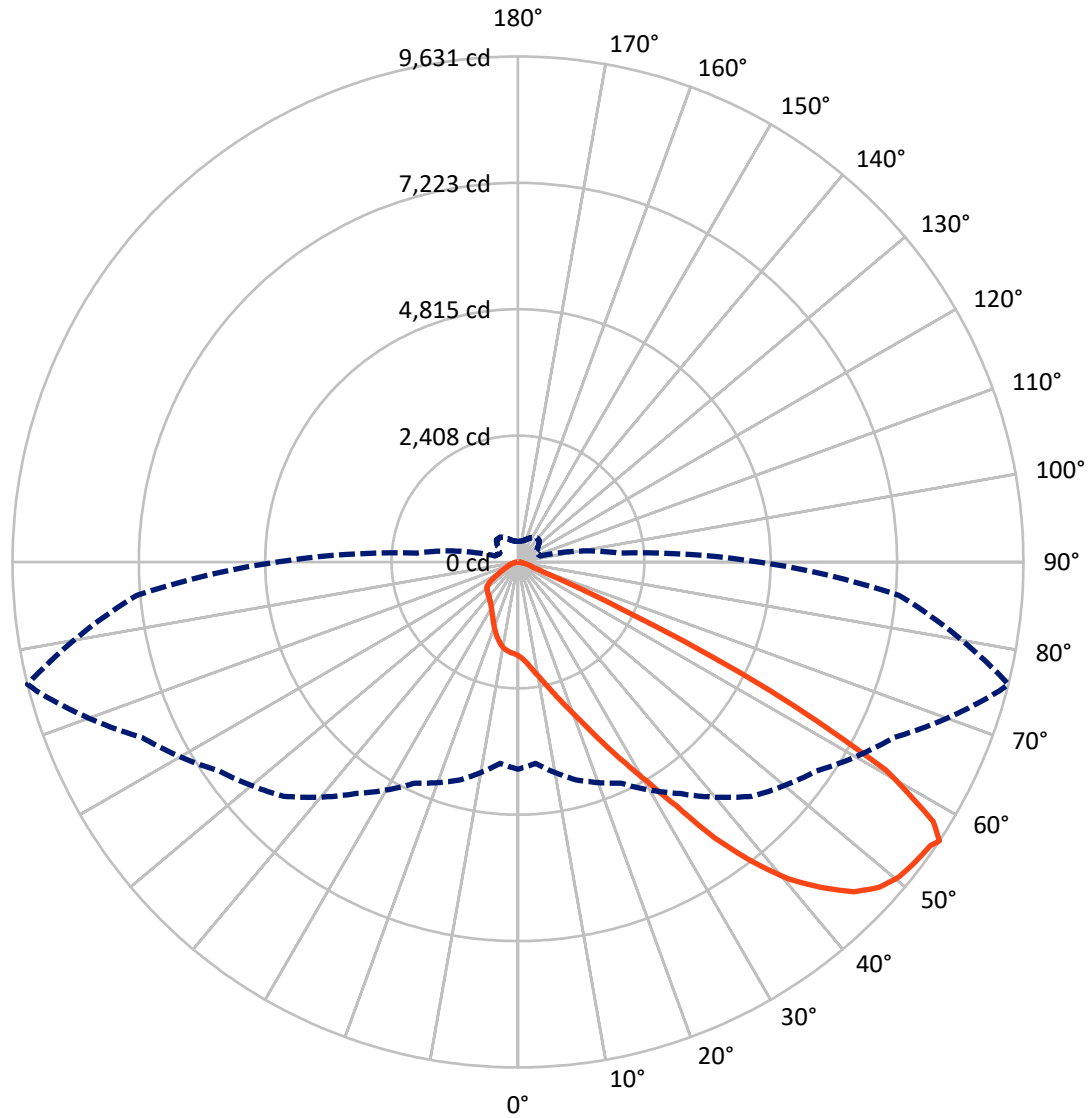
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.4	0.0	1686.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9048.6	0.0	9048.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	10735.0	0.0	10735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	1.7
10°-20°	578.3	5.4
20°-30°	1048.6	9.8
30°-40°	1808.3	16.8
40°-50°	2937.7	27.4
50°-60°	3096.4	28.8
60°-70°	946.1	8.8
70°-80°	121.3	1.1
80°-90°	18.4	0.2
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°	10735.0	100.0
0°-180°	10735.0	100.0

Coefficient of Utilization

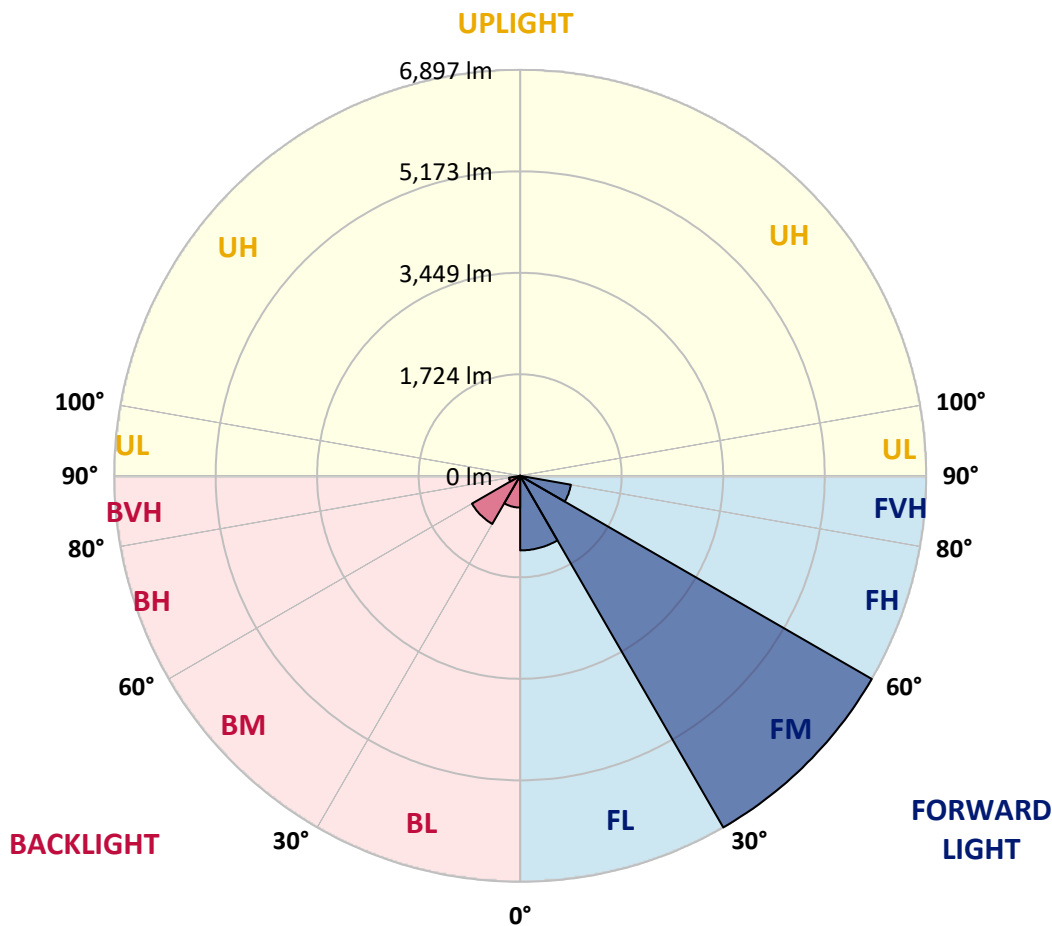


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.4	11.8			
FM (30°-60°)	6897.2	64.2			
FH (60°-80°)	875.0	8.2			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	539.5	5.0	B2/1000		
BM (30°-60°)	945.1	8.8	B1/1000		
BH (60°-80°)	192.4	1.8	B1/500		G1/500
BVH (80°-90°)	9.4	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9
2.5°	2058.0	2010.5	2012.4	2008.5	2002.5	1980.8	1915.5	1905.6	1862.1	1850.2	1810.6
5°	2305.3	2263.7	2287.5	2251.9	2218.2	2198.4	2091.6	2042.1	1972.9	1947.1	1891.7
7.5°	2459.6	2439.9	2431.9	2433.9	2402.3	2352.8	2305.3	2196.5	2103.5	2083.7	1966.9
10°	2534.8	2523.0	2534.8	2528.9	2542.8	2548.7	2465.6	2400.3	2263.7	2230.1	2048.1
12.5°	2552.7	2576.4	2586.3	2612.0	2645.7	2703.0	2697.1	2608.1	2426.0	2404.2	2172.7
15°	2596.2	2616.0	2606.1	2647.6	2711.0	2807.9	2859.4	2845.5	2649.6	2610.0	2317.2
17.5°	2635.8	2600.1	2633.8	2716.9	2780.2	2928.6	3053.3	3110.7	2893.0	2847.5	2449.8
20°	2689.2	2679.3	2673.4	2714.9	2827.7	3025.6	3272.9	3377.8	3166.1	3118.6	2639.7
22.5°	2851.5	2853.4	2849.5	2788.1	2869.3	3092.9	3464.9	3724.1	3492.6	3453.0	2855.4
25°	3065.2	3039.4	3019.6	2970.2	2960.3	3154.2	3658.8	4147.6	3884.4	3856.7	3088.9
27.5°	3290.7	3290.7	3231.4	3185.9	3122.5	3306.6	3836.9	4559.2	4357.3	4319.7	3292.7
30°	3536.1	3550.0	3542.1	3445.1	3405.5	3472.8	4018.9	5085.5	4899.5	4852.0	3629.1
32.5°	3898.2	3868.6	3902.2	3821.1	3704.3	3763.7	4305.9	5556.5	5604.0	5536.7	4070.4
35°	4377.1	4359.3	4337.5	4205.0	4066.4	4113.9	4711.5	6136.3	6488.5	6454.8	4515.6
37.5°	4806.5	4796.6	4778.8	4687.8	4527.5	4584.9	5172.6	6739.8	7351.2	7240.4	5144.9
40°	5257.7	5311.1	5253.7	5172.6	5026.2	5152.8	5714.8	7098.0	8077.5	7942.9	5625.7
42.5°	5869.1	5827.6	5853.3	5704.9	5625.7	5764.2	6258.9	7456.1	8641.4	8481.1	6136.3
45°	6520.1	6522.1	6452.9	6405.4	6199.6	6350.0	6593.4	7654.0	9090.6	8965.9	6522.1
47.5°	6937.7	6935.7	7010.9	7086.1	6874.4	6725.9	6820.9	7842.0	9322.1	9264.7	6662.6
50°	6872.4	6892.2	6989.1	7270.1	7380.9	7181.1	7034.6	7786.6	9427.0	9421.1	6783.3
52.5°	5978.0	6043.3	6205.5	6611.2	7169.2	7416.5	7258.2	7889.5	9478.5	9488.3	6963.4
55°	4551.2	4586.9	4895.6	5388.3	6005.7	6852.6	7169.2	7970.6	9518.0	9535.8	7181.1
56°	3947.7	3852.7	4298.0	4648.2	5386.3	6312.4	6943.6	7907.3	9494.3	9630.8	7289.9
57.5°	2980.1	2916.8	3276.9	3714.2	4424.6	5402.1	6243.1	7608.5	9334.0	9332.0	7133.6
60°	1812.6	1749.3	2026.3	2283.5	2681.3	3326.4	4218.8	6059.1	7891.5	8057.7	5776.1
62.5°	1078.4	1118.0	1391.1	1547.4	1676.0	1743.3	2182.6	3601.4	5265.6	5384.3	3583.6
65°	718.3	732.2	938.0	1195.2	1252.6	997.3	888.5	1458.4	2283.5	2210.3	1478.2
67.5°	443.3	474.9	629.3	898.4	995.3	728.2	421.5	544.2	629.3	629.3	427.4
70°	269.1	284.9	419.5	611.4	682.7	469.0	306.7	306.7	302.8	296.8	255.3
72.5°	128.6	138.5	213.7	314.6	320.6	247.4	237.5	259.2	253.3	251.3	211.7
75°	55.4	59.4	75.2	98.9	112.8	104.9	144.5	186.0	191.9	186.0	152.4
77.5°	17.8	19.8	27.7	35.6	37.6	45.5	61.3	77.2	89.0	83.1	75.2
80°	2.0	4.0	7.9	17.8	27.7	35.6	45.5	51.4	57.4	57.4	53.4
82.5°	2.0	2.0	7.9	15.8	25.7	33.6	43.5	49.5	57.4	59.4	55.4
85°	0.0	2.0	5.9	13.9	21.8	21.8	19.8	19.8	13.9	13.9	13.9
87.5°	0.0	0.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9
2.5°	1802.7	1798.7	1745.3	1711.7	1693.9	1658.2	1636.5	1620.6	1608.8	1594.9	1596.9
5°	1826.4	1812.6	1723.5	1662.2	1589.0	1549.4	1515.8	1488.1	1470.2	1466.3	1458.4
7.5°	1893.7	1820.5	1685.9	1575.1	1482.1	1442.5	1412.9	1395.1	1403.0	1385.2	1399.0
10°	1945.2	1836.3	1640.4	1480.1	1387.1	1357.5	1341.6	1355.5	1375.3	1367.4	1357.5
12.5°	2008.5	1852.2	1567.2	1389.1	1302.1	1280.3	1308.0	1333.7	1373.3	1389.1	1369.3
15°	2079.7	1870.0	1474.2	1284.2	1228.8	1246.6	1294.1	1339.6	1379.2	1399.0	1410.9
17.5°	2166.8	1864.0	1383.2	1201.1	1159.6	1211.0	1268.4	1310.0	1369.3	1399.0	1391.1
20°	2247.9	1844.2	1282.3	1118.0	1120.0	1167.5	1215.0	1282.3	1313.9	1353.5	1339.6
22.5°	2325.1	1808.6	1177.4	1060.6	1060.6	1133.9	1157.6	1201.1	1228.8	1248.6	1246.6
25°	2433.9	1741.3	1090.3	1005.2	1029.0	1076.5	1096.3	1110.1	1098.2	1114.1	1116.0
27.5°	2511.1	1672.1	1019.1	955.8	999.3	1034.9	1029.0	1021.1	993.4	971.6	985.4
30°	2594.2	1591.0	957.7	922.1	945.9	977.5	953.8	930.0	886.5	850.9	852.9
32.5°	2712.9	1553.4	904.3	882.5	914.2	918.2	892.4	856.8	813.3	779.6	777.7
35°	2934.6	1529.6	858.8	856.8	862.8	864.7	839.0	795.5	777.7	750.0	759.9
37.5°	3156.2	1517.7	827.1	819.2	817.2	819.2	789.5	748.0	781.6	779.6	783.6
40°	3439.2	1571.2	781.6	771.7	773.7	773.7	736.1	724.2	783.6	789.5	791.5
42.5°	3726.1	1638.4	751.9	720.3	728.2	728.2	708.4	694.6	736.1	696.5	690.6
45°	3975.4	1737.4	720.3	668.8	688.6	698.5	692.6	668.8	643.1	575.8	575.8
47.5°	4056.5	1824.5	682.7	619.4	635.2	678.7	660.9	611.4	565.9	510.5	506.6
50°	4199.0	1919.4	653.0	562.0	595.6	649.0	631.2	581.8	530.3	490.7	492.7
52.5°	4345.4	2028.3	597.6	494.7	536.3	625.3	625.3	569.9	490.7	463.0	459.1
55°	4565.1	2024.3	498.7	405.7	478.9	589.7	599.6	510.5	439.3	417.5	417.5
56°	4596.8	1933.3	449.2	379.9	453.1	579.8	581.8	494.7	419.5	395.8	395.8
57.5°	4359.3	1745.3	393.8	348.3	421.5	562.0	564.0	480.8	403.7	370.0	366.1
60°	3354.1	1181.3	328.5	310.7	381.9	506.6	516.5	437.3	354.2	328.5	326.5
62.5°	1893.7	655.0	288.9	281.0	328.5	431.4	461.1	381.9	300.8	286.9	290.9
65°	864.7	360.1	243.4	227.6	265.2	332.4	372.0	314.6	247.4	231.5	231.5
67.5°	316.6	245.4	207.8	180.1	186.0	215.7	241.4	203.8	164.2	140.5	146.4
70°	225.6	205.8	182.0	156.3	144.5	140.5	138.5	114.8	81.1	63.3	67.3
72.5°	182.0	170.2	152.4	132.6	112.8	95.0	81.1	59.4	37.6	25.7	23.7
75°	130.6	124.7	110.8	95.0	79.2	67.3	55.4	37.6	19.8	9.9	9.9
77.5°	67.3	67.3	65.3	59.4	49.5	39.6	31.7	21.8	11.9	4.0	4.0
80°	51.4	55.4	57.4	51.4	45.5	35.6	25.7	15.8	7.9	2.0	2.0
82.5°	49.5	57.4	61.3	53.4	45.5	33.6	25.7	15.8	7.9	2.0	2.0
85°	11.9	11.9	17.8	19.8	25.7	27.7	21.8	13.9	5.9	2.0	2.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	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)