

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: P650742

Luminaire Tested: **GALN-SA2C-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9780 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

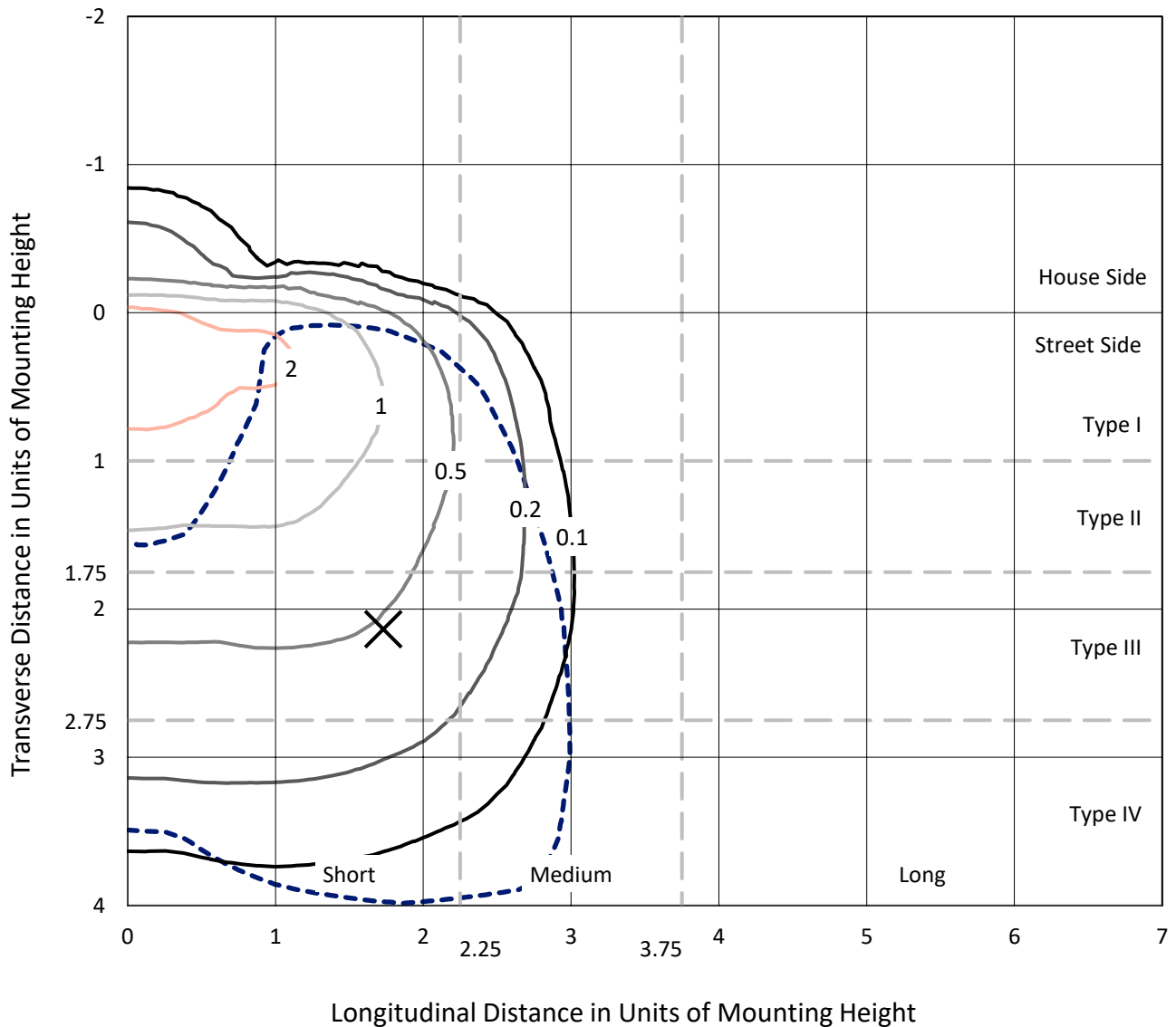
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

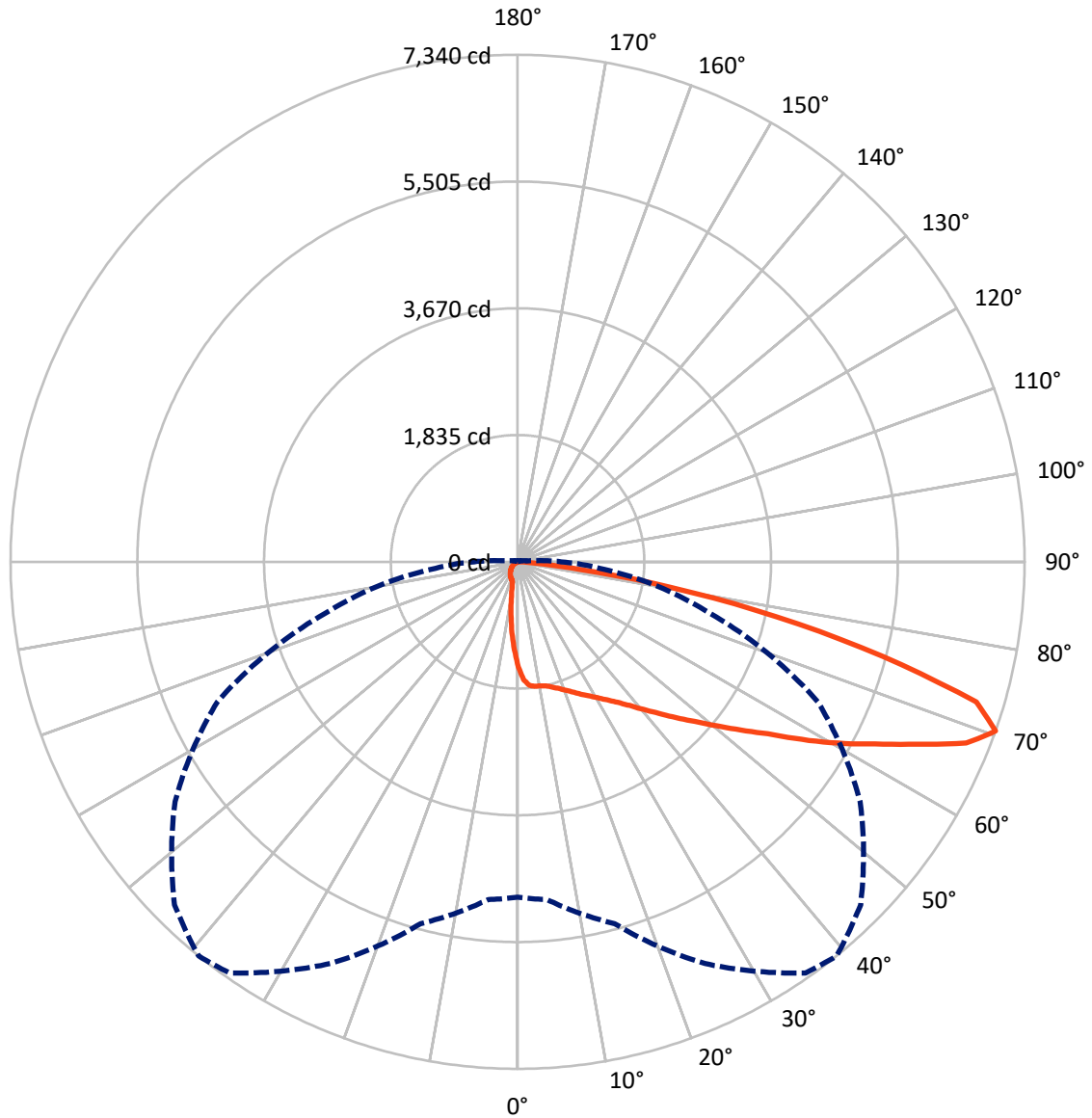
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.7	0.0	637.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	9142.3	0.0	9142.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	9780.0	0.0	9780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.3
10°-20°	338.2	3.5
20°-30°	566.7	5.8
30°-40°	878.8	9.0
40°-50°	1392.6	14.2
50°-60°	2041.4	20.9
60°-70°	2616.6	26.8
70°-80°	1644.2	16.8
80°-90°	171.3	1.8
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°	9780.0	100.0
0°-180°	9780.0	100.0

Coefficient of Utilization



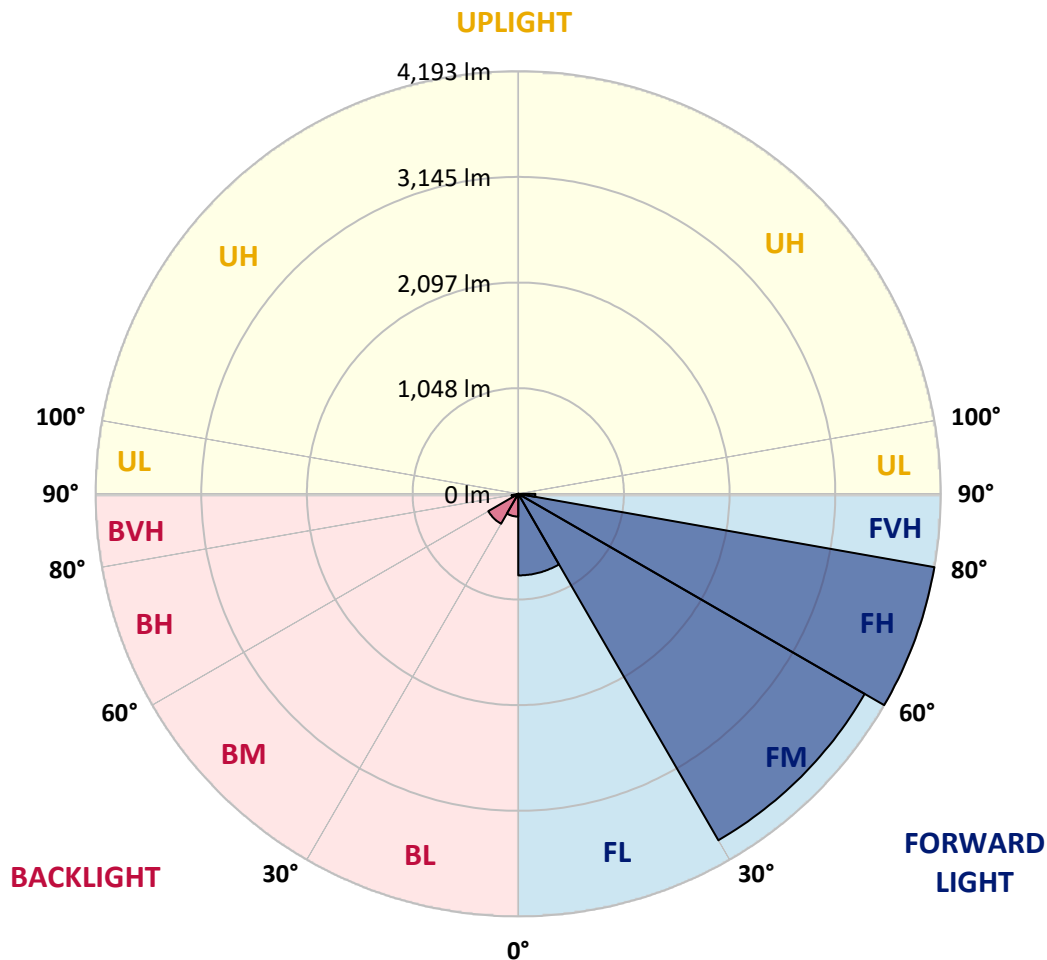
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.2	8.3			
FM (30°-60°)	3969.7	40.6			
FH (60°-80°)	4193.3	42.9			G2/5000
FVH (80°-90°)	170.0	1.7			G2/225
BL (0°-30°)	225.8	2.3	B1/500		
BM (30°-60°)	343.2	3.5	B1/1000		
BH (60°-80°)	67.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
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°	39°	45°	55°	65°	75°	85°
0°	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0
2.5°	1763.2	1757.4	1749.4	1740.3	1714.0	1709.3	1693.6	1660.0	1620.0	1587.1	1541.8
5°	1846.8	1850.0	1844.1	1827.7	1808.6	1797.5	1777.7	1725.8	1673.8	1607.5	1533.2
7.5°	1865.8	1872.3	1865.2	1849.4	1830.9	1819.1	1803.4	1758.7	1698.2	1622.6	1520.8
10°	1863.8	1871.7	1867.1	1852.6	1837.5	1826.3	1809.2	1773.8	1725.1	1645.6	1524.7
12.5°	1860.5	1871.1	1870.4	1863.2	1850.7	1842.1	1831.6	1800.1	1754.7	1679.1	1546.3
15°	1851.3	1864.5	1876.3	1882.2	1882.8	1882.8	1869.7	1836.2	1792.8	1723.2	1574.7
17.5°	1855.2	1870.4	1900.0	1917.1	1928.9	1927.6	1913.8	1877.6	1829.7	1768.5	1604.2
20°	1879.6	1900.0	1941.4	1975.5	1987.4	1983.4	1965.0	1922.9	1868.4	1807.3	1633.1
22.5°	1939.4	1957.8	2009.7	2049.8	2058.3	2047.8	2021.5	1964.3	1915.0	1849.4	1668.0
25°	2028.7	2050.4	2098.5	2128.7	2128.7	2122.8	2085.9	2018.9	1967.7	1907.8	1713.3
27.5°	2137.2	2155.7	2202.9	2229.9	2214.1	2197.0	2160.2	2079.4	2030.1	1981.5	1767.9
30°	2247.0	2258.8	2308.7	2320.6	2304.2	2282.5	2243.0	2162.2	2118.8	2081.3	1846.8
32.5°	2350.8	2376.4	2417.8	2415.2	2392.9	2382.3	2346.2	2260.1	2235.8	2231.8	1957.2
35°	2454.6	2474.4	2511.1	2520.4	2500.6	2498.7	2472.4	2408.6	2409.3	2434.9	2129.3
37.5°	2544.0	2561.8	2605.2	2625.5	2629.5	2639.3	2628.8	2586.7	2646.5	2716.9	2357.4
40°	2619.0	2643.9	2699.1	2734.6	2775.4	2811.5	2813.5	2822.6	2942.9	3063.8	2655.1
42.5°	2677.4	2712.2	2792.5	2858.1	2951.5	2997.5	3034.2	3084.9	3287.3	3468.0	3006.0
45°	2753.7	2793.7	2893.6	2996.8	3142.7	3218.3	3269.6	3405.0	3692.2	3938.6	3366.2
47.5°	2879.8	2900.9	3002.7	3153.2	3345.2	3452.9	3552.8	3757.8	4126.5	4347.4	3665.8
50°	3042.1	3055.9	3132.9	3341.9	3590.3	3732.2	3914.3	4155.5	4577.4	4686.5	3835.4
52.5°	3221.6	3226.2	3284.0	3549.5	3865.0	4043.8	4247.5	4545.2	4944.7	4928.3	3947.8
55°	3429.9	3423.4	3472.7	3774.9	4190.3	4394.6	4631.9	4944.1	5263.5	5099.8	4012.2
57.5°	3668.4	3650.7	3698.7	4074.0	4607.0	4851.5	5092.6	5288.5	5510.6	5243.8	4043.1
60°	3918.2	3882.7	3939.9	4409.8	5097.9	5329.8	5530.3	5582.9	5770.9	5358.1	3989.9
62.5°	4117.4	4118.0	4224.4	4767.3	5602.6	5805.7	5912.1	5959.5	5995.0	5333.2	3709.9
65°	4428.2	4438.7	4608.9	5263.5	6186.9	6363.0	6435.9	6282.2	6004.8	5023.0	3289.2
67.5°	4748.9	4782.4	5093.9	5947.0	6861.8	7003.8	6909.7	6344.6	5736.7	4315.2	2494.1
70°	4853.4	4908.6	5421.8	6417.5	7266.7	7340.2	7022.2	6053.4	4795.6	2885.1	1255.3
72.5°	4447.3	4536.6	5233.3	6246.0	7008.4	6944.6	6282.8	5076.9	3048.7	1095.6	383.2
75°	3136.2	3175.6	4349.3	5181.3	5636.8	5456.1	4779.2	3272.8	1253.9	307.6	131.4
77.5°	1619.3	1600.3	2586.7	3437.8	4020.1	3832.8	3129.6	1694.3	475.2	128.2	81.5
80°	837.3	851.1	1119.2	1801.3	2454.0	2258.2	1668.6	785.3	253.1	71.0	62.4
82.5°	469.3	440.3	643.4	786.7	1147.5	899.7	640.1	556.0	110.4	42.7	59.1
85°	85.4	89.4	352.9	425.2	398.3	253.1	206.4	371.3	32.2	23.6	41.4
87.5°	1.3	1.3	68.4	122.2	77.5	35.5	65.1	53.2	6.6	9.2	7.2
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°	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0
2.5°	1518.8	1493.8	1447.1	1401.1	1342.7	1294.7	1262.5	1229.0	1194.8	1197.4	1205.3
5°	1492.5	1449.1	1357.1	1259.8	1166.6	1082.4	999.6	925.4	895.1	867.5	868.8
7.5°	1466.2	1405.1	1270.3	1117.9	976.6	833.3	729.5	644.0	598.7	564.6	554.6
10°	1454.3	1373.5	1190.9	981.2	780.8	624.4	490.9	421.3	367.3	350.3	354.9
12.5°	1459.6	1357.8	1119.2	857.7	619.1	435.0	341.8	306.3	294.4	292.4	291.2
15°	1469.5	1346.6	1048.9	720.9	454.8	323.4	287.2	280.6	279.3	278.0	278.6
17.5°	1482.6	1336.8	974.0	592.8	348.9	282.6	272.1	268.8	268.1	268.1	268.1
20°	1495.8	1325.6	890.5	478.4	291.2	266.8	260.3	258.3	257.6	257.6	256.9
22.5°	1510.9	1315.7	805.8	375.9	268.1	255.7	249.8	248.4	247.8	247.1	247.1
25°	1532.6	1303.2	715.7	307.6	253.6	245.2	239.2	237.9	237.2	234.6	235.3
27.5°	1561.5	1294.0	623.0	265.5	240.5	232.0	228.1	226.1	224.8	222.8	223.5
30°	1600.9	1286.1	524.4	242.5	225.4	218.2	214.3	212.9	211.6	209.7	209.7
32.5°	1669.3	1289.4	420.6	224.1	211.6	203.1	199.1	197.8	196.5	194.5	194.5
35°	1771.8	1308.5	336.5	208.3	195.2	186.6	182.7	182.7	180.7	178.1	177.5
37.5°	1939.4	1357.1	270.1	193.2	179.4	171.6	166.9	165.6	163.7	159.7	159.0
40°	2137.2	1432.7	227.4	178.1	164.9	157.1	153.1	149.2	143.9	139.9	139.4
42.5°	2385.7	1510.3	197.1	163.0	151.1	143.9	139.4	132.8	124.9	119.6	118.9
45°	2644.5	1581.2	176.8	149.2	138.0	132.1	126.8	116.3	106.5	99.9	99.2
47.5°	2837.8	1594.4	160.4	136.1	126.8	120.9	113.7	100.6	87.4	81.5	79.6
50°	2929.1	1530.6	143.3	122.9	115.6	109.1	99.9	84.8	70.3	63.1	61.8
52.5°	2961.3	1420.2	129.4	111.1	104.5	96.6	85.4	68.4	55.2	47.9	47.3
55°	2948.2	1280.8	117.0	99.9	91.3	82.2	71.0	54.6	40.7	34.8	33.6
57.5°	2879.2	1103.5	104.5	88.7	78.2	69.0	56.5	40.7	27.6	22.4	21.7
60°	2693.2	861.6	92.0	76.2	66.4	56.5	44.7	28.9	17.1	12.4	12.4
62.5°	2379.0	639.4	80.1	63.7	55.8	45.3	31.5	18.4	9.2	6.6	5.9
65°	1988.0	471.9	67.0	53.9	46.7	35.5	22.4	11.2	4.6	1.9	1.3
67.5°	1387.3	291.2	55.8	44.1	38.1	25.7	13.8	4.6	1.9	0.0	0.0
70°	630.2	138.7	42.7	33.6	28.9	18.4	7.2	2.6	1.3	0.0	0.0
72.5°	195.9	72.9	30.2	24.3	19.7	11.9	4.0	1.9	1.3	0.0	0.0
75°	90.7	46.7	19.1	13.1	11.2	5.9	2.6	1.3	0.7	0.0	0.0
77.5°	67.7	36.2	11.2	7.2	5.9	4.0	1.9	1.3	0.7	0.0	0.0
80°	59.1	18.4	6.6	4.6	3.3	2.6	1.3	0.7	0.0	0.0	0.0
82.5°	53.2	9.2	4.0	2.6	1.9	1.3	0.7	0.7	0.0	0.0	0.0
85°	28.9	5.3	2.6	1.9	1.3	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.3	2.6	1.9	1.3	1.3	0.7	0.7	0.0	0.0	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)