

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: P451735

Luminaire Tested: **GALN-SA2C-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8597 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

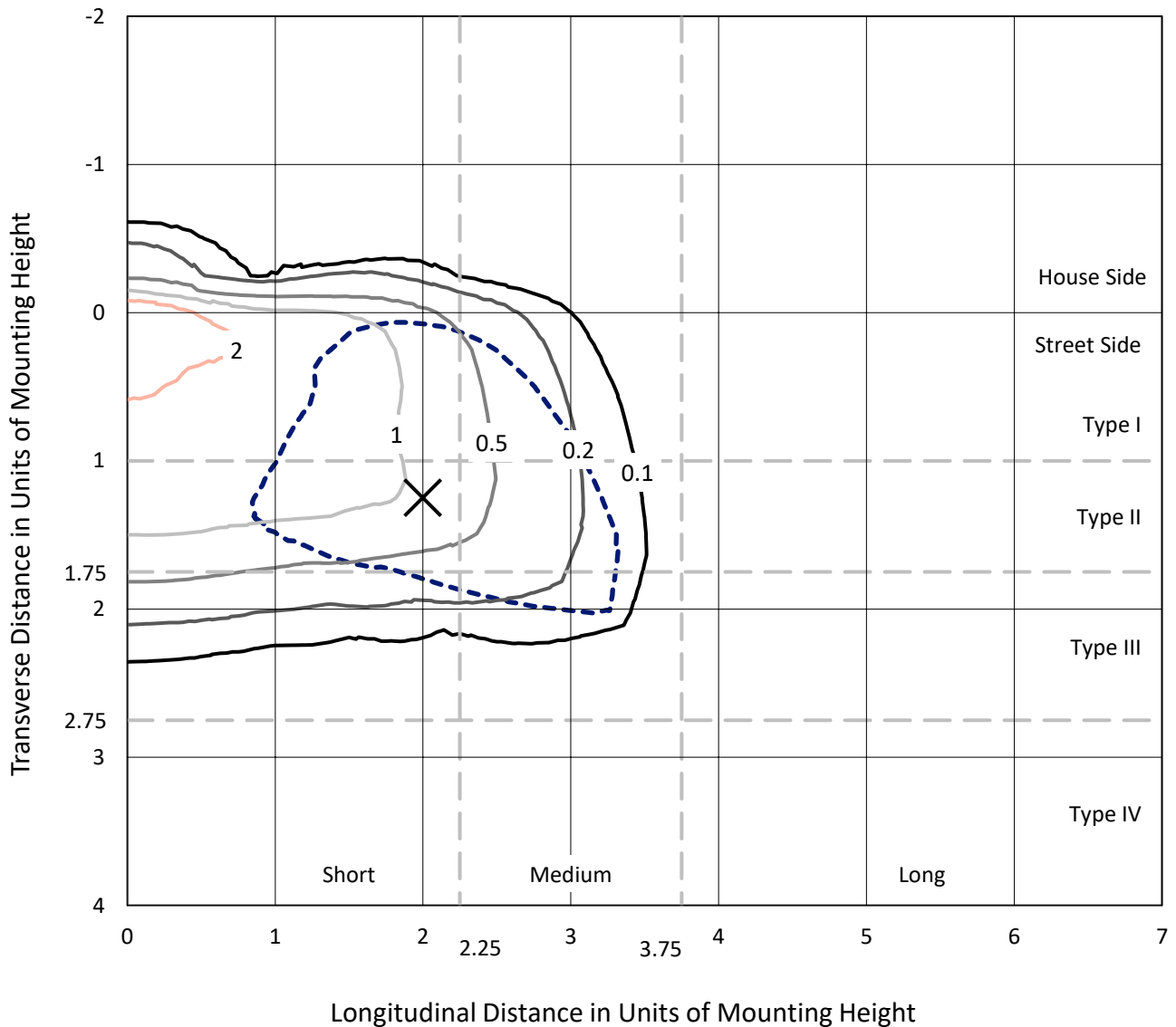
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

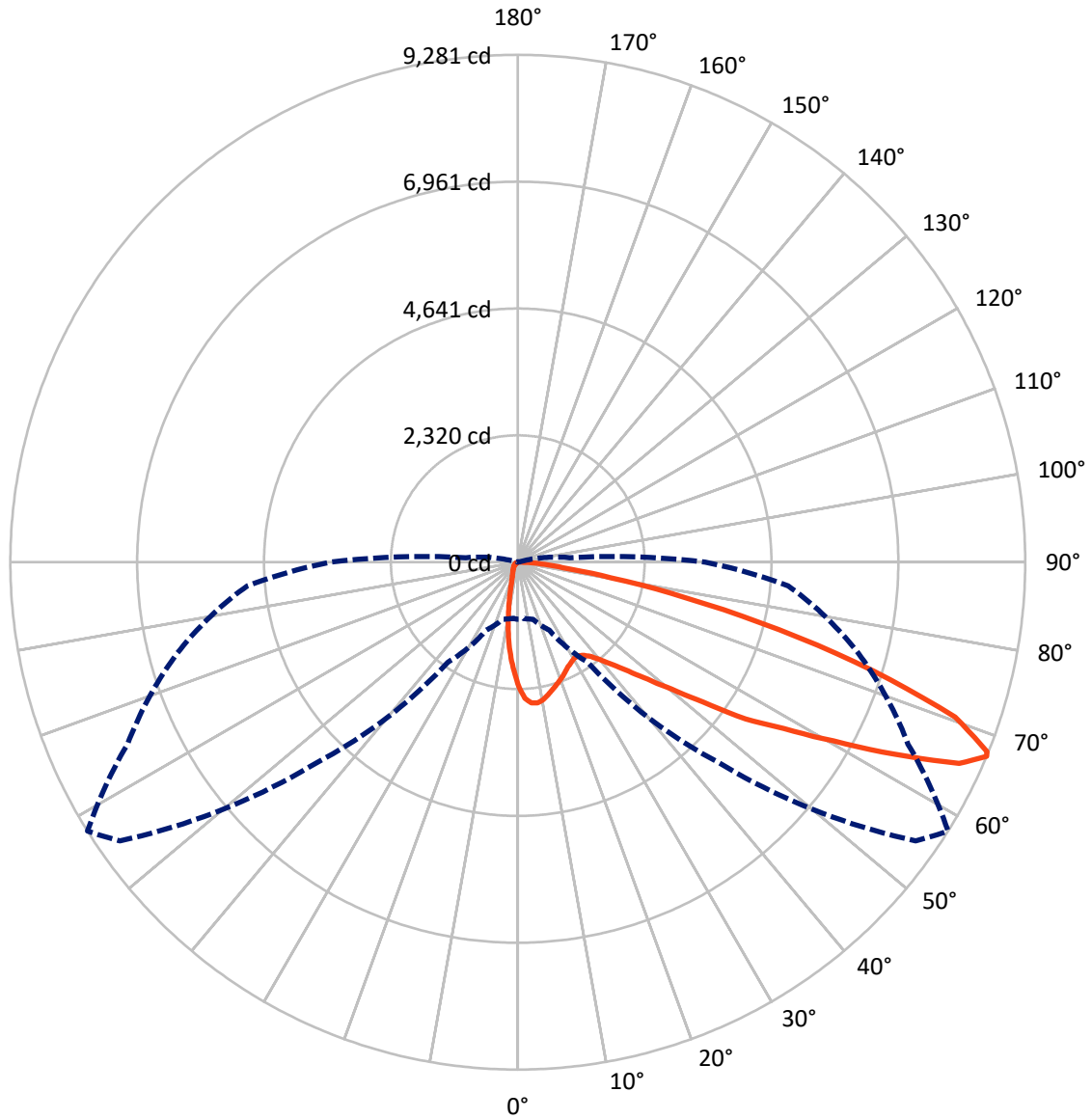
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.4	0.0	620.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7976.6	0.0	7976.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	8597.0	0.0	8597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	2.2
10°-20°	399.4	4.6
20°-30°	541.2	6.3
30°-40°	750.7	8.7
40°-50°	1197.2	13.9
50°-60°	2069.5	24.1
60°-70°	2364.0	27.5
70°-80°	985.6	11.5
80°-90°	104.5	1.2
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°	8597.0	100.0
0°-180°	8597.0	100.0

Coefficient of Utilization



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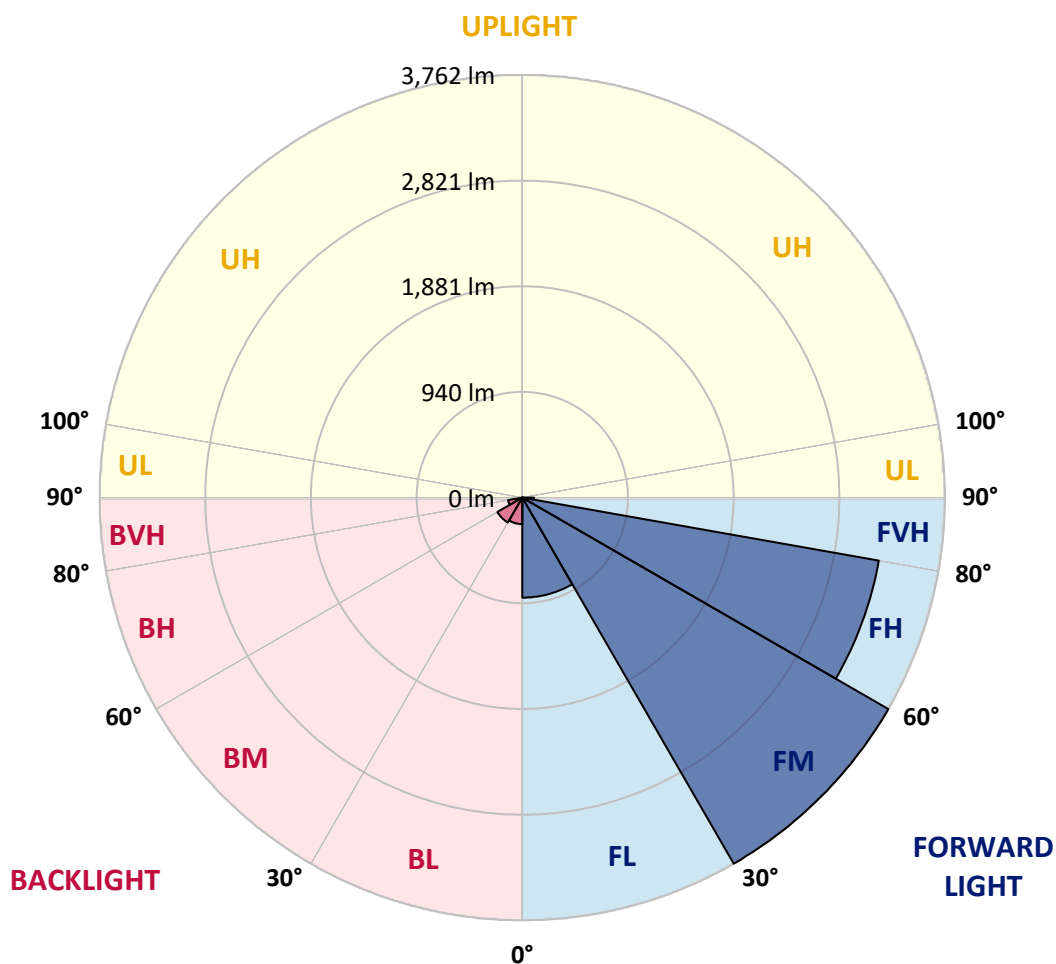
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.0	10.4			
FM (30°-60°)	3761.5	43.8			
FH (60°-80°)	3221.3	37.5			G2/5000
FVH (80°-90°)	103.7	1.2			G2/225
BL (0°-30°)	235.6	2.7	B1/500		
BM (30°-60°)	255.8	3.0	B1/1000		
BH (60°-80°)	128.3	1.5	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0
2.5°	2644.9	2649.0	2634.0	2622.0	2590.9	2557.6	2513.4	2489.8	2449.6	2380.1	2303.1
5°	2707.0	2712.1	2709.9	2707.0	2694.9	2662.7	2606.4	2585.8	2526.6	2413.4	2274.4
7.5°	2569.1	2588.1	2590.4	2612.8	2634.0	2636.9	2615.6	2600.1	2545.5	2412.8	2223.3
10°	2386.4	2399.1	2417.4	2443.3	2494.4	2536.9	2557.6	2555.3	2523.7	2395.0	2163.5
12.5°	2202.0	2208.9	2237.0	2281.3	2343.9	2416.3	2471.4	2482.4	2482.9	2373.8	2113.5
15°	2043.4	2040.6	2062.4	2113.5	2201.4	2292.2	2391.0	2408.2	2435.8	2353.1	2067.0
17.5°	1907.9	1922.8	1926.3	1982.6	2063.6	2181.3	2307.1	2337.6	2392.7	2335.3	2028.5
20°	1824.0	1832.0	1839.5	1871.1	1944.1	2068.1	2228.4	2270.4	2352.5	2319.2	1985.4
22.5°	1799.3	1804.5	1798.1	1807.9	1859.6	1969.9	2142.8	2198.6	2314.0	2304.3	1950.4
25°	1818.2	1823.4	1808.5	1797.0	1814.8	1890.1	2060.1	2127.9	2283.0	2301.4	1924.0
27.5°	1864.2	1874.0	1853.3	1832.6	1822.3	1847.0	1995.2	2073.9	2261.8	2315.2	1911.9
30°	1936.0	1941.8	1926.3	1901.0	1877.4	1852.7	1961.3	2036.6	2256.0	2347.3	1910.7
32.5°	2014.1	2026.2	2017.6	2000.9	1970.5	1911.9	1971.1	2037.7	2269.8	2393.9	1925.1
35°	2110.7	2124.4	2132.5	2129.0	2090.0	2017.0	2033.1	2089.4	2306.6	2479.5	1964.2
37.5°	2205.5	2217.5	2262.9	2278.4	2243.9	2175.0	2153.7	2191.1	2387.6	2591.5	2034.8
40°	2314.0	2330.1	2393.9	2453.1	2436.4	2364.0	2324.9	2356.0	2511.7	2760.4	2168.7
42.5°	2418.0	2446.7	2543.8	2648.4	2663.9	2582.9	2557.0	2567.4	2695.5	3003.4	2355.4
45°	2565.7	2592.7	2717.9	2859.8	2932.8	2869.6	2843.1	2841.4	2947.7	3345.2	2658.1
47.5°	2778.8	2802.9	2950.6	3090.7	3220.6	3229.2	3179.2	3196.4	3264.8	3745.1	3029.3
50°	3040.2	3097.1	3194.1	3340.1	3513.6	3653.7	3669.2	3646.3	3704.9	4208.1	3475.1
52.5°	3419.9	3441.7	3530.8	3650.9	3854.2	4092.1	4276.5	4244.9	4226.5	4649.3	3925.5
55°	3703.1	3732.4	3870.9	4035.8	4333.9	4647.6	5047.4	5058.3	4826.3	5073.3	4366.1
57.5°	3617.5	3662.3	3872.0	4203.5	4859.0	5432.3	5729.9	5737.4	5381.2	5485.2	4863.6
60°	3178.1	3199.3	3499.8	3942.1	4903.8	6282.6	6697.9	6637.6	5945.9	5945.9	5303.1
62.5°	2253.7	2287.0	2530.6	3181.5	4428.7	6577.9	7857.2	7732.6	6723.8	6386.6	5565.0
65°	1440.2	1408.1	1569.5	2008.4	3299.3	6141.8	8866.6	8874.1	7455.7	6562.9	5422.0
67°	1043.3	1030.6	1077.2	1373.0	2237.0	5162.9	8887.9	9281.4	7876.2	6451.5	4964.7
67.5°	954.2	964.0	997.9	1238.6	2032.5	4698.1	8791.4	9257.3	7971.0	6384.3	4799.3
70°	723.3	706.6	743.4	876.1	1218.5	2963.8	7562.5	8490.3	7853.2	5717.3	3834.7
72.5°	532.0	530.3	581.4	716.4	938.1	1578.7	5677.1	6807.7	6415.9	4353.5	2414.6
75°	359.1	375.1	456.7	598.6	850.2	1023.7	3870.3	4938.9	4454.0	2472.0	987.0
77.5°	204.5	205.7	294.1	480.8	763.5	823.8	2293.3	3146.5	2357.7	822.1	293.0
80°	88.5	97.1	145.9	349.3	633.1	729.6	1315.0	1729.2	953.6	174.1	94.8
82.5°	32.7	38.5	64.3	214.9	461.9	600.9	794.5	825.5	323.4	61.5	59.2
85°	0.0	1.1	23.6	100.5	240.7	268.3	530.8	489.5	143.0	29.3	38.5
87.5°	0.0	0.0	0.0	10.3	31.6	100.0	164.9	183.8	34.5	10.3	9.2
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°	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0	2279.0
2.5°	2261.8	2224.4	2130.8	2037.1	1967.6	1909.6	1822.3	1774.6	1749.3	1712.0	1714.3
5°	2204.9	2129.0	1964.2	1793.5	1655.7	1521.2	1360.4	1295.5	1240.9	1209.9	1189.2
7.5°	2120.4	2008.4	1764.2	1536.7	1324.8	1089.8	913.4	795.7	716.4	687.1	658.9
10°	2027.9	1879.1	1561.5	1246.1	951.9	709.5	560.1	452.1	413.6	378.0	381.5
12.5°	1942.3	1761.4	1375.3	983.5	667.0	451.0	351.6	307.3	294.7	290.7	290.7
15°	1872.2	1648.8	1175.4	739.4	457.3	324.0	281.5	269.4	264.8	263.7	263.7
17.5°	1797.6	1541.9	995.0	546.3	332.6	271.2	256.8	248.8	247.0	245.9	245.9
20°	1730.9	1434.5	823.8	406.7	268.9	244.2	235.0	229.8	228.1	226.9	227.5
22.5°	1667.7	1339.1	663.0	307.3	236.7	222.3	213.1	208.0	204.5	201.6	202.2
25°	1611.4	1247.2	533.1	251.6	213.1	200.5	191.3	183.8	176.4	172.9	172.3
27.5°	1571.8	1166.8	415.4	215.4	191.9	178.1	166.6	157.4	147.6	142.5	141.3
30°	1539.0	1085.2	328.6	190.2	170.6	157.4	143.0	129.8	119.5	114.3	112.0
32.5°	1517.8	1007.6	259.1	169.5	152.8	136.7	120.6	107.4	95.9	90.8	89.6
35°	1514.3	942.7	212.0	152.2	136.7	119.5	102.8	88.5	78.7	73.5	72.4
37.5°	1539.0	892.8	177.5	138.5	123.5	104.6	86.2	73.0	64.3	60.3	59.7
40°	1605.1	861.2	154.0	127.0	111.5	90.8	73.5	62.0	53.4	49.4	49.4
42.5°	1730.9	862.3	138.5	116.0	99.4	77.6	62.6	51.7	44.2	40.8	39.6
45°	1927.4	901.4	125.2	105.1	87.9	67.2	53.4	42.5	35.0	32.2	32.2
47.5°	2190.5	978.9	113.7	94.2	77.6	57.4	45.4	34.5	28.1	25.3	25.3
50°	2534.6	1103.6	104.0	85.0	68.9	49.4	36.8	28.1	21.8	19.5	19.0
52.5°	2894.3	1257.5	92.5	77.0	59.2	41.9	29.9	21.8	16.7	14.9	14.4
55°	3291.2	1408.1	81.6	68.9	48.3	35.0	23.6	17.2	12.1	10.3	10.3
57.5°	3691.6	1555.7	68.4	57.4	37.9	25.9	18.4	12.6	8.0	6.3	6.3
60°	4030.6	1603.4	58.0	46.5	28.7	18.4	13.2	8.0	4.6	2.9	2.9
62.5°	4077.1	1442.5	48.8	35.6	20.7	12.6	6.9	4.6	1.7	1.1	1.1
65°	3824.4	1172.0	40.8	27.0	13.8	6.3	2.9	1.7	0.6	0.0	0.0
67°	3426.8	950.2	33.3	20.1	9.8	4.0	1.7	0.6	0.0	0.0	0.0
67.5°	3325.1	906.0	32.2	19.0	8.6	3.4	1.1	0.6	0.0	0.0	0.0
70°	2609.3	678.5	23.0	11.5	5.2	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	1621.8	383.8	16.7	6.9	3.4	1.1	0.0	0.0	0.0	0.0	0.0
75°	613.0	134.4	11.5	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	190.7	51.1	6.9	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.3	19.5	4.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.6	8.0	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.7	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.1	0.6	0.0	0.0	0.0	0.0	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)