

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: P527841

Luminaire Tested: **GALN-SA2D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6675 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

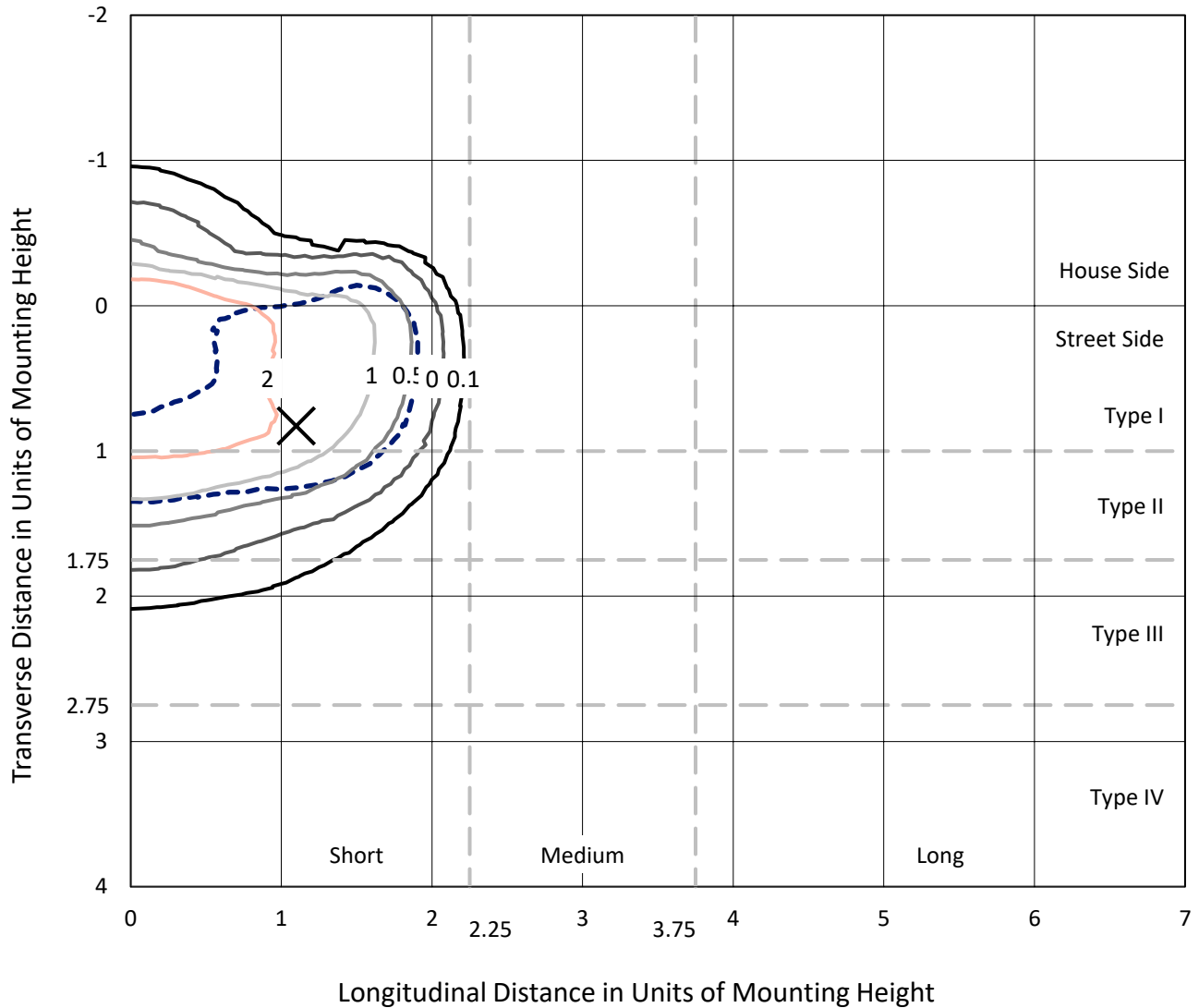
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

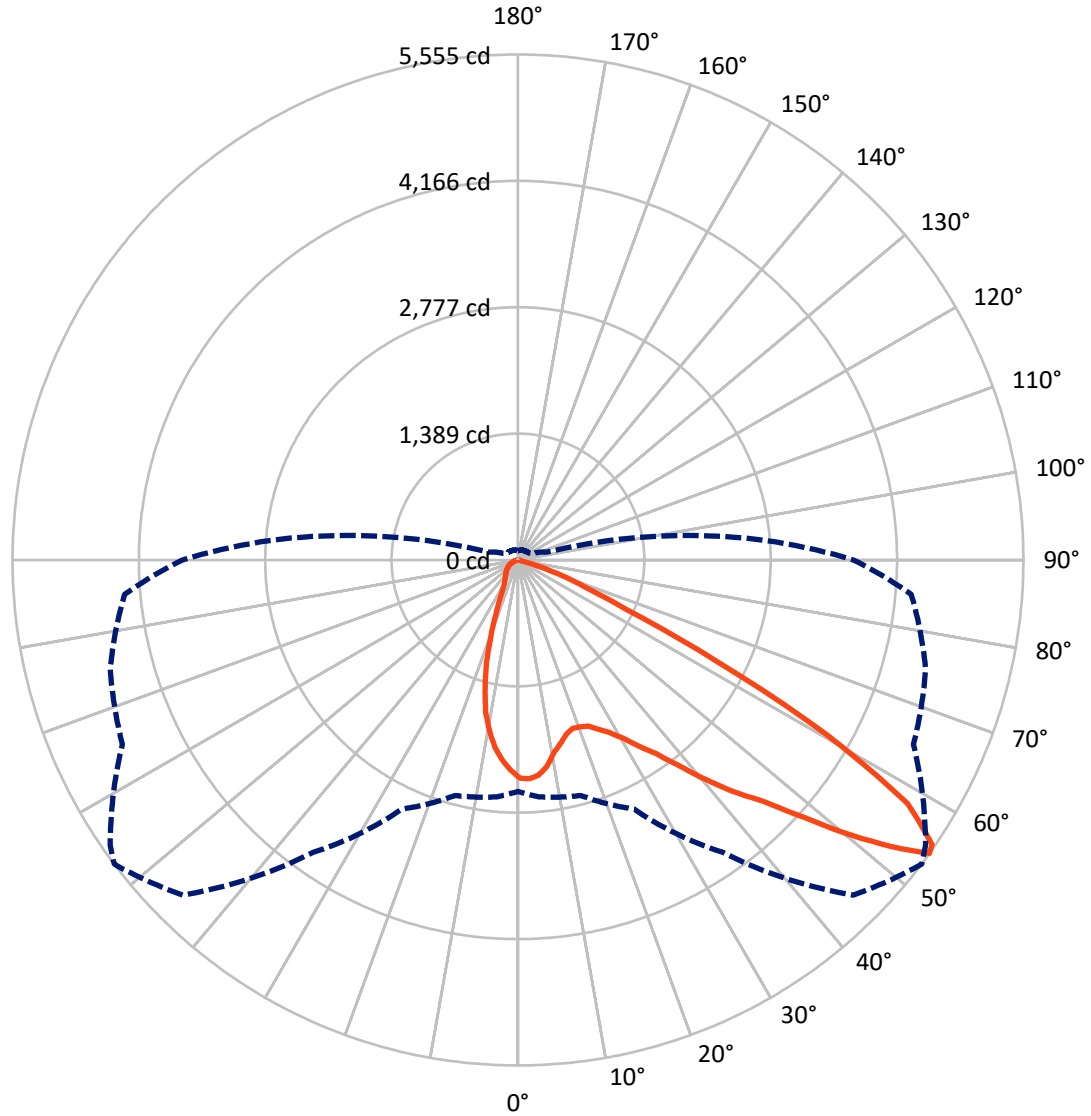
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1104.4	0.0	1104.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5570.6	0.0	5570.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	6675.0	0.0	6675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	3.1
10°-20°	471.6	7.1
20°-30°	670.3	10.0
30°-40°	1034.4	15.5
40°-50°	1621.8	24.3
50°-60°	1884.0	28.2
60°-70°	711.9	10.7
70°-80°	67.7	1.0
80°-90°	7.6	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°	6675.0	100.0
0°-180°	6675.0	100.0

Coefficient of Utilization



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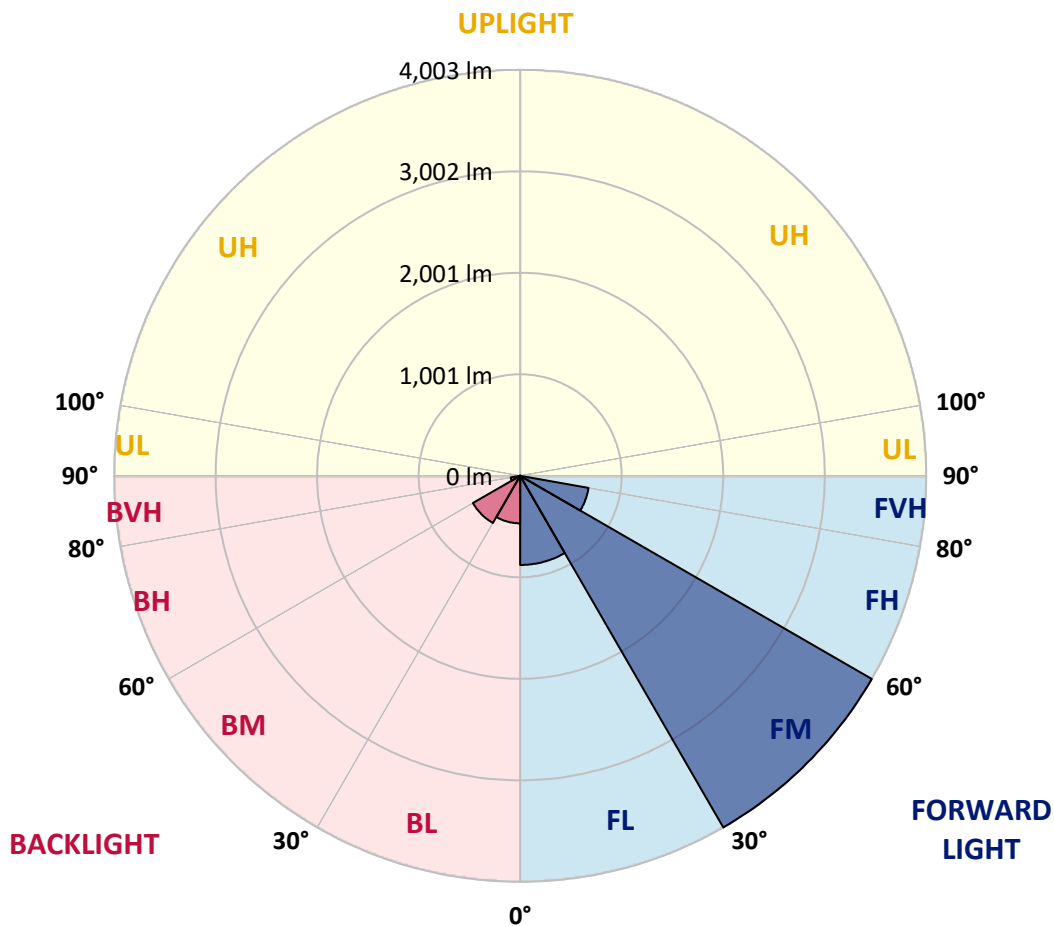
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.9	13.2			
FM (30°-60°)	4002.8	60.0			
FH (60°-80°)	685.0	10.3			G1/1800
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	468.7	7.0	B1/500		
BM (30°-60°)	537.4	8.1	B1/1000		
BH (60°-80°)	94.6	1.4	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5
2.5°	2385.1	2364.0	2385.1	2387.6	2402.5	2416.2	2407.5	2427.4	2416.2	2403.8	2400.0
5°	2192.4	2221.0	2222.2	2267.0	2257.0	2339.1	2375.2	2365.2	2426.1	2422.4	2413.7
7.5°	2019.5	2008.3	2023.2	2075.5	2141.4	2235.9	2288.1	2286.9	2373.9	2436.1	2429.9
10°	1859.1	1857.9	1888.9	1930.0	1985.9	2085.4	2157.5	2193.6	2329.2	2423.7	2437.3
12.5°	1750.9	1745.9	1779.5	1813.1	1901.4	1978.5	2070.5	2087.9	2243.3	2380.1	2402.5
15°	1680.0	1691.2	1693.7	1758.4	1814.3	1916.3	1988.4	2024.5	2203.6	2345.3	2431.1
17.5°	1667.6	1682.5	1683.8	1737.2	1796.9	1882.7	1946.1	1994.6	2170.0	2362.7	2432.4
20°	1692.5	1683.8	1691.2	1724.8	1783.2	1865.3	1957.3	1973.5	2158.8	2371.4	2446.0
22.5°	1763.3	1760.9	1742.2	1769.6	1810.6	1896.4	1983.4	2008.3	2191.1	2416.2	2457.2
25°	1841.7	1855.4	1838.0	1834.2	1862.8	1947.4	2063.0	2095.4	2299.3	2497.0	2492.1
27.5°	1988.4	1974.7	1974.7	1957.3	1949.9	1990.9	2148.8	2202.3	2419.9	2601.5	2531.8
30°	2128.9	2143.9	2132.7	2138.9	2089.1	2085.4	2270.7	2336.6	2633.8	2760.7	2616.4
32.5°	2351.5	2331.6	2350.3	2334.1	2268.2	2201.1	2436.1	2504.5	2892.5	2943.5	2743.3
35°	2536.8	2528.1	2607.7	2605.2	2498.3	2432.4	2611.4	2713.4	3072.8	3162.3	2892.5
37.5°	2800.5	2784.3	2875.1	2918.6	2822.8	2724.6	2862.6	2980.8	3240.7	3337.7	3045.4
40°	3071.5	3112.6	3234.5	3306.6	3204.6	3074.0	3169.8	3205.8	3352.6	3452.1	3149.9
42.5°	3414.8	3474.5	3598.8	3661.0	3652.3	3510.5	3481.9	3480.7	3433.4	3419.7	3227.0
45°	3744.3	3721.9	3913.4	4049.0	4158.4	4117.4	3782.9	3745.5	3561.5	3468.2	3246.9
47.5°	3888.6	3881.1	4011.7	4252.9	4626.0	4677.0	4220.6	4076.3	3777.9	3672.2	3355.1
50°	3702.0	3740.6	3869.9	4137.3	4709.3	5098.5	4757.8	4563.8	4030.3	3920.9	3611.2
52.5°	3092.7	3118.8	3241.9	3581.4	4425.8	5347.2	5272.6	5160.7	4494.2	4312.6	4057.7
54°	2543.0	2612.7	2679.8	3020.6	3920.9	5209.2	5554.9	5469.1	4796.3	4638.4	4338.7
55°	2214.7	2255.8	2304.3	2643.8	3571.5	4975.4	5522.6	5530.0	4999.0	4740.4	4527.7
57.5°	1617.8	1646.4	1596.7	1747.2	2452.3	4040.3	5051.3	5252.7	5272.6	4893.3	4643.4
60°	1236.1	1248.5	1192.6	1216.2	1524.6	2773.1	3907.2	4149.7	4756.5	4276.5	3933.3
62.5°	958.8	961.3	960.0	1001.1	1050.8	1631.5	2443.6	2658.7	3279.2	3036.7	2671.1
65°	706.3	695.1	715.0	839.4	896.6	1025.9	1287.1	1443.8	1782.0	1504.7	1075.7
67.5°	457.6	461.4	481.3	624.3	768.5	787.2	792.1	779.7	780.9	430.3	269.8
70°	274.8	281.0	274.8	353.2	549.6	564.6	516.1	503.6	393.0	102.0	100.7
72.5°	162.9	154.2	138.0	151.7	228.8	273.6	246.2	245.0	154.2	59.7	59.7
75°	68.4	62.2	51.0	46.0	60.9	58.4	58.4	52.2	41.0	39.8	37.3
77.5°	13.7	13.7	9.9	11.2	14.9	17.4	21.1	21.1	24.9	24.9	23.6
80°	0.0	1.2	3.7	7.5	11.2	16.2	18.7	18.7	21.1	21.1	17.4
82.5°	0.0	1.2	3.7	7.5	9.9	14.9	18.7	18.7	21.1	22.4	18.7
85°	0.0	1.2	3.7	6.2	9.9	12.4	12.4	11.2	8.7	7.5	5.0
87.5°	0.0	0.0	1.2	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5	2397.5
2.5°	2408.7	2407.5	2377.7	2329.2	2318.0	2276.9	2271.9	2247.1	2260.8	2214.7	2209.8
5°	2388.8	2373.9	2337.9	2306.8	2216.0	2151.3	2100.3	2038.2	2002.1	2008.3	1984.7
7.5°	2417.4	2378.9	2315.5	2207.3	2096.6	1983.4	1922.5	1795.7	1749.7	1681.3	1671.3
10°	2387.6	2359.0	2260.8	2081.7	1928.7	1765.8	1622.8	1482.3	1375.4	1329.3	1319.4
12.5°	2385.1	2335.4	2171.2	1972.3	1750.9	1517.1	1309.4	1134.1	1028.4	968.7	955.0
15°	2346.6	2286.9	2070.5	1803.1	1497.2	1206.2	979.9	810.8	730.0	695.1	705.1
17.5°	2350.3	2260.8	1969.8	1624.1	1247.3	885.4	669.0	582.0	560.8	569.5	569.5
20°	2346.6	2202.3	1847.9	1417.6	955.0	614.3	491.2	460.1	473.8	501.1	494.9
22.5°	2326.7	2175.0	1736.0	1200.0	702.6	455.1	394.2	395.4	416.6	450.2	457.6
25°	2341.6	2114.0	1594.2	979.9	512.3	363.1	342.0	350.7	373.1	397.9	402.9
27.5°	2330.4	2070.5	1446.2	761.0	374.3	312.1	310.9	320.8	330.8	349.4	349.4
30°	2342.8	2030.7	1300.7	565.8	308.4	286.0	281.0	288.5	298.4	302.2	300.9
32.5°	2388.8	2000.9	1132.9	422.8	272.3	261.1	261.1	261.1	259.9	264.9	266.1
35°	2489.6	2005.8	984.9	327.1	248.7	240.0	236.3	231.3	228.8	231.3	232.5
37.5°	2599.0	2003.3	831.9	278.6	231.3	223.8	215.1	207.7	206.4	208.9	205.2
40°	2647.5	2027.0	690.2	250.0	215.1	206.4	192.7	186.5	187.8	190.3	187.8
42.5°	2713.4	2034.4	598.1	227.6	200.2	186.5	177.8	170.4	169.1	172.9	171.6
45°	2712.2	1992.2	501.1	215.1	186.5	171.6	160.4	154.2	154.2	156.7	157.9
47.5°	2791.8	1985.9	430.3	203.9	176.6	161.7	148.0	143.0	141.8	141.8	139.3
50°	2977.0	2073.0	375.5	191.5	164.1	150.5	139.3	133.1	128.1	125.6	124.4
52.5°	3338.9	2344.1	333.3	176.6	150.5	139.3	129.3	124.4	118.1	111.9	110.7
54°	3689.6	2623.9	330.8	164.1	139.3	131.8	123.1	120.6	113.2	104.5	102.0
55°	3847.5	2786.8	339.5	154.2	131.8	126.8	119.4	116.9	109.4	99.5	98.2
57.5°	3978.1	2850.2	334.5	128.1	119.4	118.1	111.9	108.2	99.5	85.8	83.3
60°	3202.1	2155.1	240.0	113.2	109.4	106.9	102.0	99.5	88.3	73.4	72.1
62.5°	2023.2	1239.8	153.0	99.5	95.8	92.0	85.8	83.3	73.4	58.4	54.7
65°	861.8	513.6	103.2	88.3	82.1	75.9	70.9	67.2	58.4	43.5	42.3
67.5°	223.8	182.8	85.8	77.1	68.4	59.7	56.0	49.7	39.8	29.8	28.6
70°	100.7	92.0	72.1	64.7	54.7	46.0	41.0	34.8	26.1	19.9	18.7
72.5°	59.7	58.4	54.7	48.5	41.0	34.8	29.8	23.6	17.4	11.2	11.2
75°	37.3	36.1	37.3	33.6	28.6	26.1	22.4	16.2	9.9	5.0	5.0
77.5°	22.4	22.4	22.4	21.1	19.9	19.9	16.2	9.9	5.0	1.2	1.2
80°	17.4	17.4	18.7	17.4	17.4	17.4	13.7	7.5	2.5	0.0	0.0
82.5°	17.4	18.7	21.1	19.9	17.4	14.9	12.4	7.5	2.5	0.0	0.0
85°	5.0	3.7	6.2	8.7	12.4	11.2	8.7	6.2	2.5	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	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)