

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: P527607

Luminaire Tested: **GALN-SA2C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527607
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-SA2C-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 6066 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

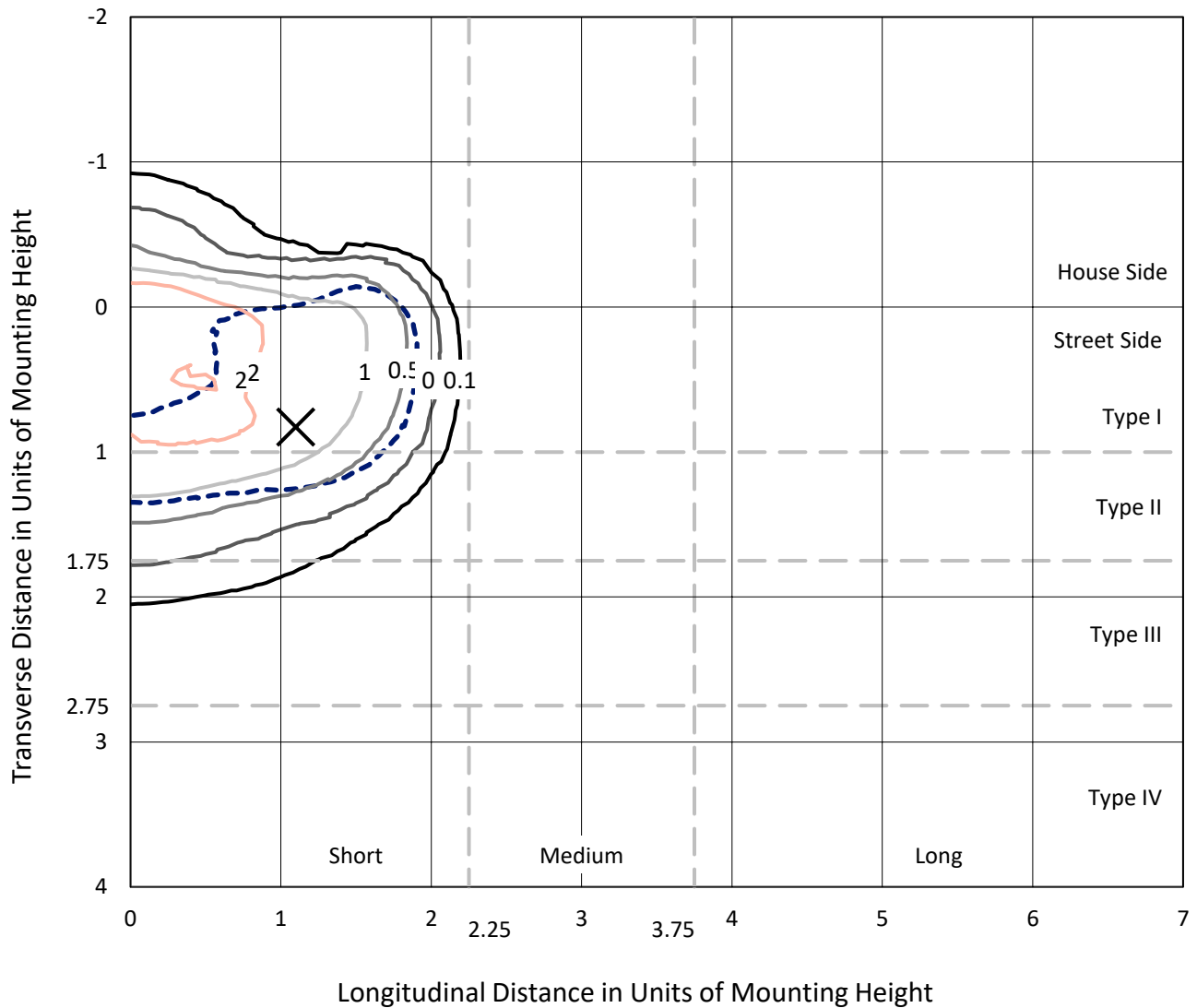
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

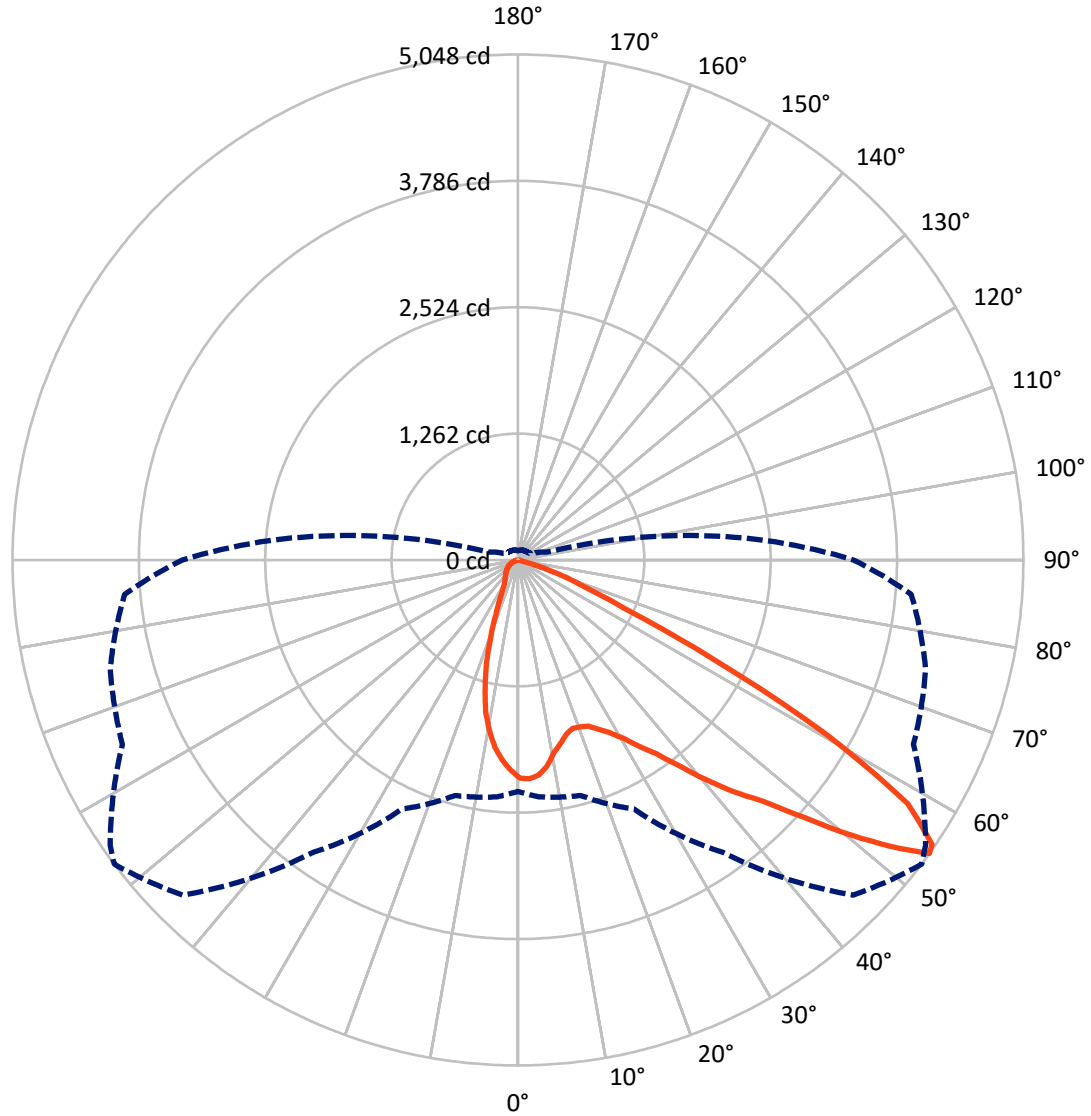
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1003.6	0.0	1003.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5062.4	0.0	5062.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	6066.0	0.0	6066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	3.1
10°-20°	428.6	7.1
20°-30°	609.1	10.0
30°-40°	940.0	15.5
40°-50°	1473.9	24.3
50°-60°	1712.1	28.2
60°-70°	646.9	10.7
70°-80°	61.5	1.0
80°-90°	6.9	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°	6066.0	100.0
0°-180°	6066.0	100.0

Coefficient of Utilization



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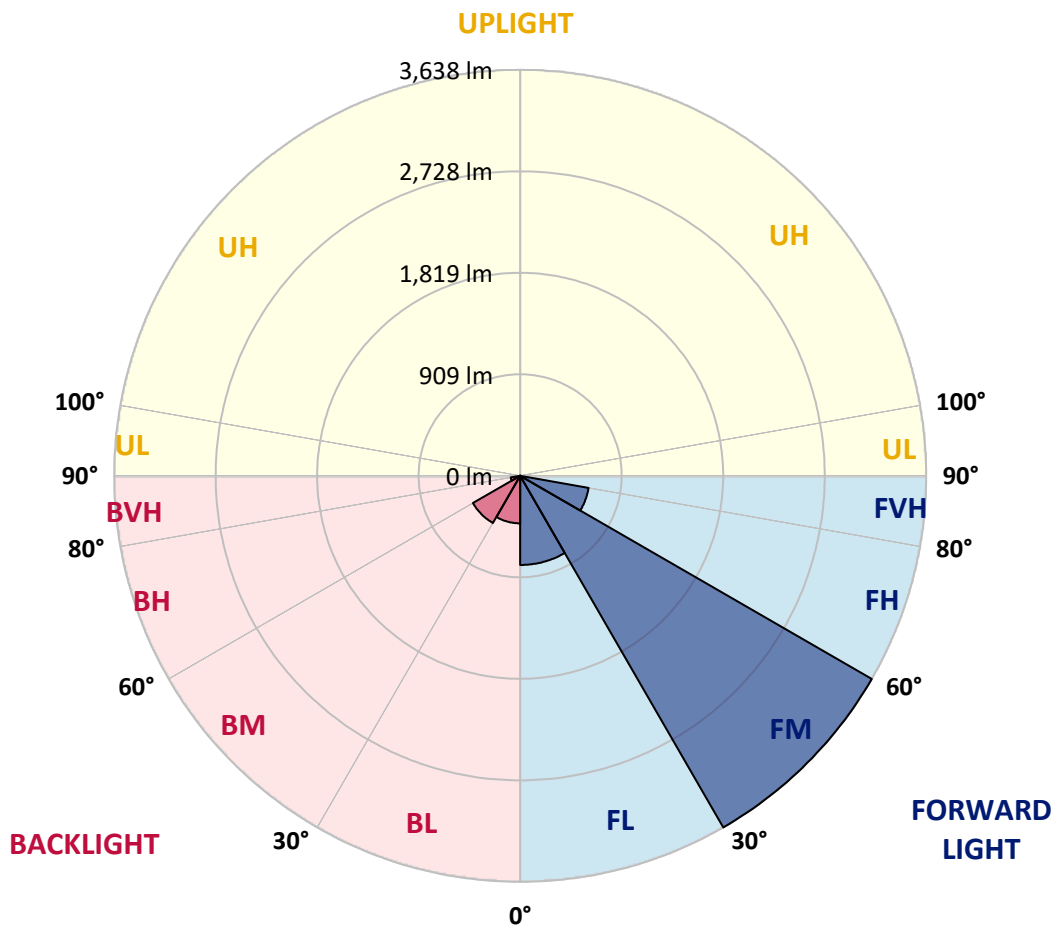
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.7	13.2			
FM (30°-60°)	3637.6	60.0			
FH (60°-80°)	622.5	10.3			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	425.9	7.0	B1/500		
BM (30°-60°)	488.4	8.1	B1/1000		
BH (60°-80°)	86.0	1.4	B0/110		G0/110
BVH (80°-90°)	3.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8
2.5°	2167.5	2148.3	2167.5	2169.8	2183.3	2195.8	2187.8	2205.9	2195.8	2184.5	2181.1
5°	1992.3	2018.3	2019.5	2060.1	2051.1	2125.7	2158.5	2149.4	2204.8	2201.4	2193.5
7.5°	1835.3	1825.1	1838.6	1886.1	1946.0	2031.9	2079.4	2078.2	2157.3	2213.8	2208.2
10°	1689.5	1688.3	1716.6	1753.9	1804.7	1895.2	1960.7	1993.5	2116.7	2202.5	2215.0
12.5°	1591.2	1586.6	1617.2	1647.7	1727.9	1798.0	1881.6	1897.4	2038.7	2163.0	2183.3
15°	1526.7	1536.9	1539.2	1597.9	1648.8	1741.5	1807.0	1839.8	2002.5	2131.3	2209.3
17.5°	1515.4	1529.0	1530.1	1578.7	1633.0	1710.9	1768.6	1812.7	1972.0	2147.2	2210.4
20°	1538.0	1530.1	1536.9	1567.4	1620.5	1695.1	1778.8	1793.4	1961.8	2155.1	2222.9
22.5°	1602.5	1600.2	1583.2	1608.1	1645.4	1723.4	1802.5	1825.1	1991.2	2195.8	2233.0
25°	1673.7	1686.1	1670.3	1666.9	1692.9	1769.7	1874.8	1904.2	2089.5	2269.2	2264.7
27.5°	1807.0	1794.6	1794.6	1778.8	1772.0	1809.3	1952.8	2001.4	2199.1	2364.1	2300.9
30°	1934.7	1948.3	1938.1	1943.7	1898.5	1895.2	2063.5	2123.4	2393.5	2508.8	2377.7
32.5°	2137.0	2118.9	2135.9	2121.2	2061.3	2000.3	2213.8	2276.0	2628.6	2674.9	2493.0
35°	2305.4	2297.5	2369.8	2367.5	2270.3	2210.4	2373.2	2465.8	2792.4	2873.8	2628.6
37.5°	2545.0	2530.3	2612.8	2652.3	2565.3	2476.0	2601.5	2708.8	2945.0	3033.1	2767.6
40°	2791.3	2828.6	2939.4	3004.9	2912.2	2793.6	2880.6	2913.4	3046.7	3137.1	2862.5
42.5°	3103.2	3157.5	3270.5	3327.0	3319.1	3190.2	3164.2	3163.1	3120.2	3107.7	2932.6
45°	3402.7	3382.3	3556.4	3679.6	3779.0	3741.7	3437.7	3403.8	3236.6	3151.8	2950.7
47.5°	3533.8	3527.0	3645.7	3864.9	4203.9	4250.3	3835.5	3704.4	3433.2	3337.1	3049.0
50°	3364.3	3399.3	3516.8	3759.8	4279.6	4633.4	4323.7	4147.4	3662.6	3563.2	3281.8
52.5°	2810.5	2834.3	2946.1	3254.6	4022.0	4859.4	4791.6	4689.9	4084.1	3919.1	3687.5
54°	2311.0	2374.3	2435.3	2745.0	3563.2	4733.9	5048.1	4970.1	4358.7	4215.2	3942.9
55°	2012.7	2050.0	2094.0	2402.6	3245.6	4521.5	5018.7	5025.5	4542.9	4307.9	4114.6
57.5°	1470.2	1496.2	1451.0	1587.8	2228.5	3671.6	4590.4	4773.5	4791.6	4446.9	4219.7
60°	1123.3	1134.6	1083.8	1105.2	1385.5	2520.1	3550.7	3771.1	4322.6	3886.4	3574.5
62.5°	871.3	873.6	872.4	909.7	954.9	1482.7	2220.6	2416.1	2980.0	2759.7	2427.4
65°	641.9	631.7	649.8	762.8	814.8	932.3	1169.6	1312.0	1619.4	1367.4	977.5
67.5°	415.9	419.3	437.3	567.3	698.4	715.3	719.9	708.6	709.7	391.0	245.2
70°	249.7	255.4	249.7	320.9	499.5	513.1	469.0	457.7	357.1	92.7	91.5
72.5°	148.0	140.1	125.4	137.9	207.9	248.6	223.8	222.6	140.1	54.2	54.2
75°	62.2	56.5	46.3	41.8	55.4	53.1	53.1	47.5	37.3	36.2	33.9
77.5°	12.4	12.4	9.0	10.2	13.6	15.8	19.2	19.2	22.6	22.6	21.5
80°	0.0	1.1	3.4	6.8	10.2	14.7	17.0	17.0	19.2	19.2	15.8
82.5°	0.0	1.1	3.4	6.8	9.0	13.6	17.0	17.0	19.2	20.3	17.0
85°	0.0	1.1	3.4	5.7	9.0	11.3	11.3	10.2	7.9	6.8	4.5
87.5°	0.0	0.0	1.1	2.3	1.1	2.3	2.3	2.3	2.3	2.3	2.3
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°	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8	2178.8
2.5°	2189.0	2187.8	2160.7	2116.7	2106.5	2069.2	2064.7	2042.1	2054.5	2012.7	2008.2
5°	2170.9	2157.3	2124.6	2096.3	2013.8	1955.0	1908.7	1852.2	1819.4	1825.1	1803.6
7.5°	2196.9	2161.9	2104.2	2005.9	1905.3	1802.5	1747.1	1631.8	1590.0	1527.9	1518.8
10°	2169.8	2143.8	2054.5	1891.8	1752.8	1604.7	1474.8	1347.1	1249.9	1208.1	1199.0
12.5°	2167.5	2122.3	1973.1	1792.3	1591.2	1378.7	1190.0	1030.6	934.6	880.3	867.9
15°	2132.5	2078.2	1881.6	1638.6	1360.6	1096.2	890.5	736.8	663.4	631.7	640.8
17.5°	2135.9	2054.5	1790.1	1475.9	1133.5	804.6	608.0	528.9	509.7	517.6	517.6
20°	2132.5	2001.4	1679.3	1288.3	867.9	558.3	446.4	418.1	430.6	455.4	449.8
22.5°	2114.4	1976.5	1577.6	1090.5	638.5	413.6	358.2	359.4	378.6	409.1	415.9
25°	2128.0	1921.1	1448.8	890.5	465.6	330.0	310.8	318.7	339.0	361.6	366.1
27.5°	2117.8	1881.6	1314.3	691.6	340.2	283.7	282.5	291.6	300.6	317.6	317.6
30°	2129.1	1845.4	1182.1	514.2	280.3	259.9	255.4	262.2	271.2	274.6	273.5
32.5°	2170.9	1818.3	1029.5	384.2	247.5	237.3	237.3	237.3	236.2	240.7	241.8
35°	2262.4	1822.8	895.0	297.2	226.0	218.1	214.7	210.2	207.9	210.2	211.3
37.5°	2361.9	1820.6	756.0	253.1	210.2	203.4	195.5	188.7	187.6	189.9	186.5
40°	2406.0	1842.0	627.2	227.1	195.5	187.6	175.2	169.5	170.6	172.9	170.6
42.5°	2465.8	1848.8	543.6	206.8	181.9	169.5	161.6	154.8	153.7	157.1	156.0
45°	2464.7	1810.4	455.4	195.5	169.5	156.0	145.8	140.1	140.1	142.4	143.5
47.5°	2537.0	1804.7	391.0	185.3	160.5	146.9	134.5	130.0	128.8	128.8	126.6
50°	2705.4	1883.9	341.3	174.0	149.2	136.7	126.6	120.9	116.4	114.1	113.0
52.5°	3034.3	2130.2	302.9	160.5	136.7	126.6	117.5	113.0	107.4	101.7	100.6
54°	3353.0	2384.5	300.6	149.2	126.6	119.8	111.9	109.6	102.8	94.9	92.7
55°	3496.5	2532.5	308.5	140.1	119.8	115.3	108.5	106.2	99.4	90.4	89.3
57.5°	3615.1	2590.2	304.0	116.4	108.5	107.4	101.7	98.3	90.4	78.0	75.7
60°	2910.0	1958.4	218.1	102.8	99.4	97.2	92.7	90.4	80.2	66.7	65.5
62.5°	1838.6	1126.7	139.0	90.4	87.0	83.6	78.0	75.7	66.7	53.1	49.7
65°	783.1	466.7	93.8	80.2	74.6	68.9	64.4	61.0	53.1	39.6	38.4
67.5°	203.4	166.1	78.0	70.1	62.2	54.2	50.9	45.2	36.2	27.1	26.0
70°	91.5	83.6	65.5	58.8	49.7	41.8	37.3	31.6	23.7	18.1	17.0
72.5°	54.2	53.1	49.7	44.1	37.3	31.6	27.1	21.5	15.8	10.2	10.2
75°	33.9	32.8	33.9	30.5	26.0	23.7	20.3	14.7	9.0	4.5	4.5
77.5°	20.3	20.3	20.3	19.2	18.1	18.1	14.7	9.0	4.5	1.1	1.1
80°	15.8	15.8	17.0	15.8	15.8	15.8	12.4	6.8	2.3	0.0	0.0
82.5°	15.8	17.0	19.2	18.1	15.8	13.6	11.3	6.8	2.3	0.0	0.0
85°	4.5	3.4	5.7	7.9	11.3	10.2	7.9	5.7	2.3	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1	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)