

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: P648068

Luminaire Tested: **GALN-SA7A-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18311.2 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

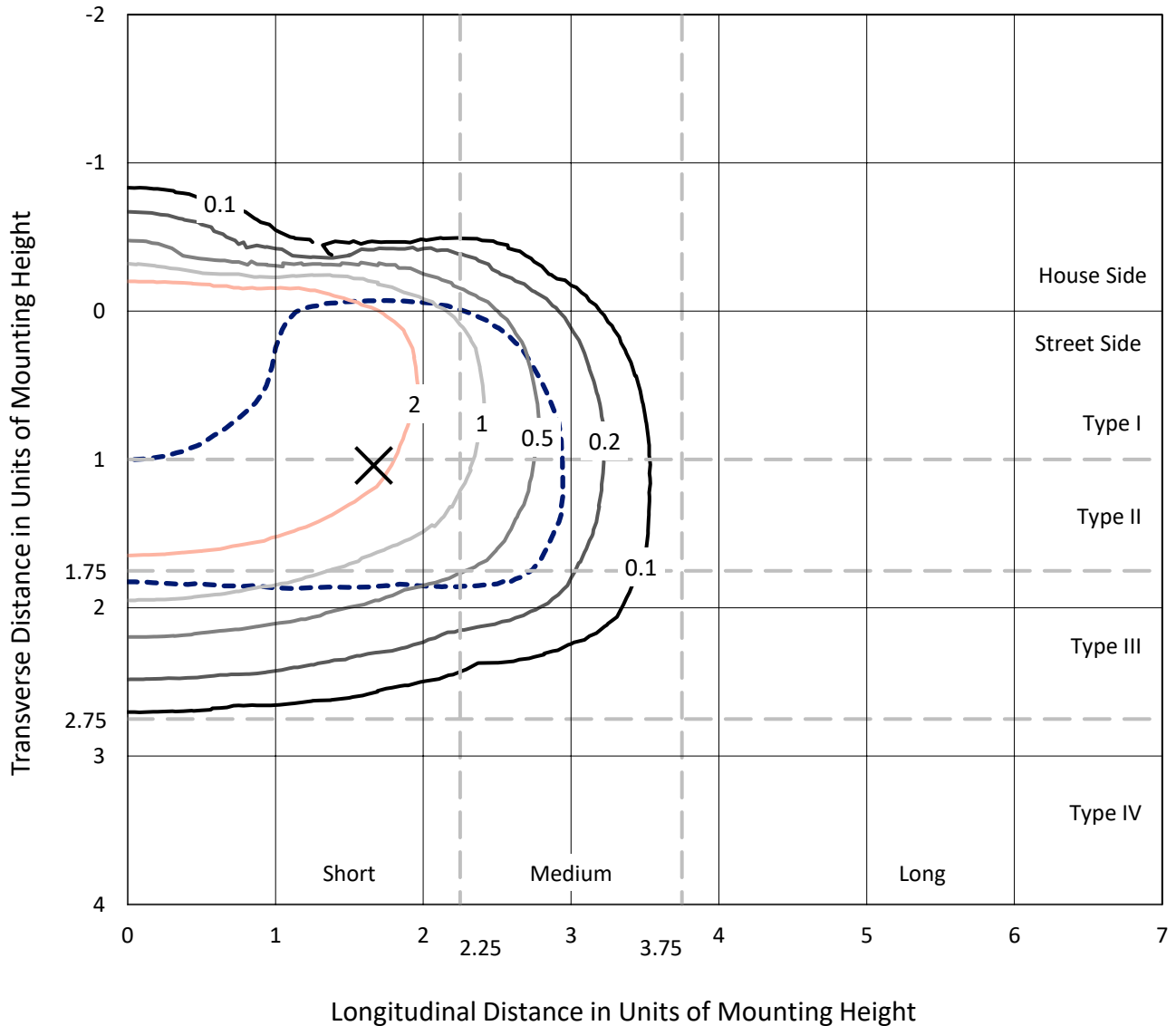
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

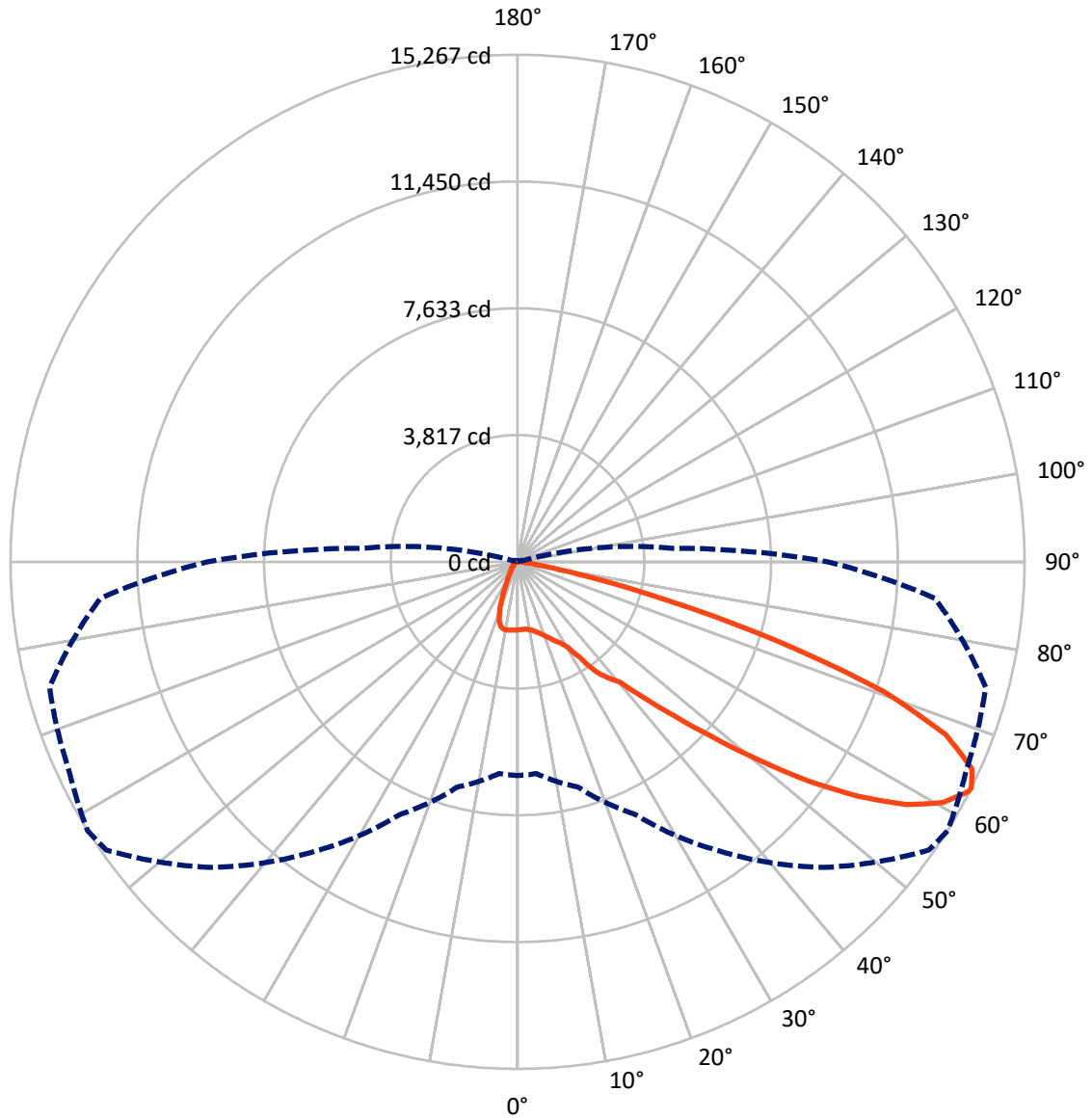
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1896.0	0.0	1896.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16415.2	0.0	16415.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	18311.2	0.0	18311.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	1.0
10°-20°	522.7	2.9
20°-30°	907.2	5.0
30°-40°	1667.0	9.1
40°-50°	3138.1	17.1
50°-60°	5367.5	29.3
60°-70°	5139.4	28.1
70°-80°	1310.5	7.2
80°-90°	67.0	0.4
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°	18311.2	100.0
0°-180°	18311.2	100.0

Coefficient of Utilization



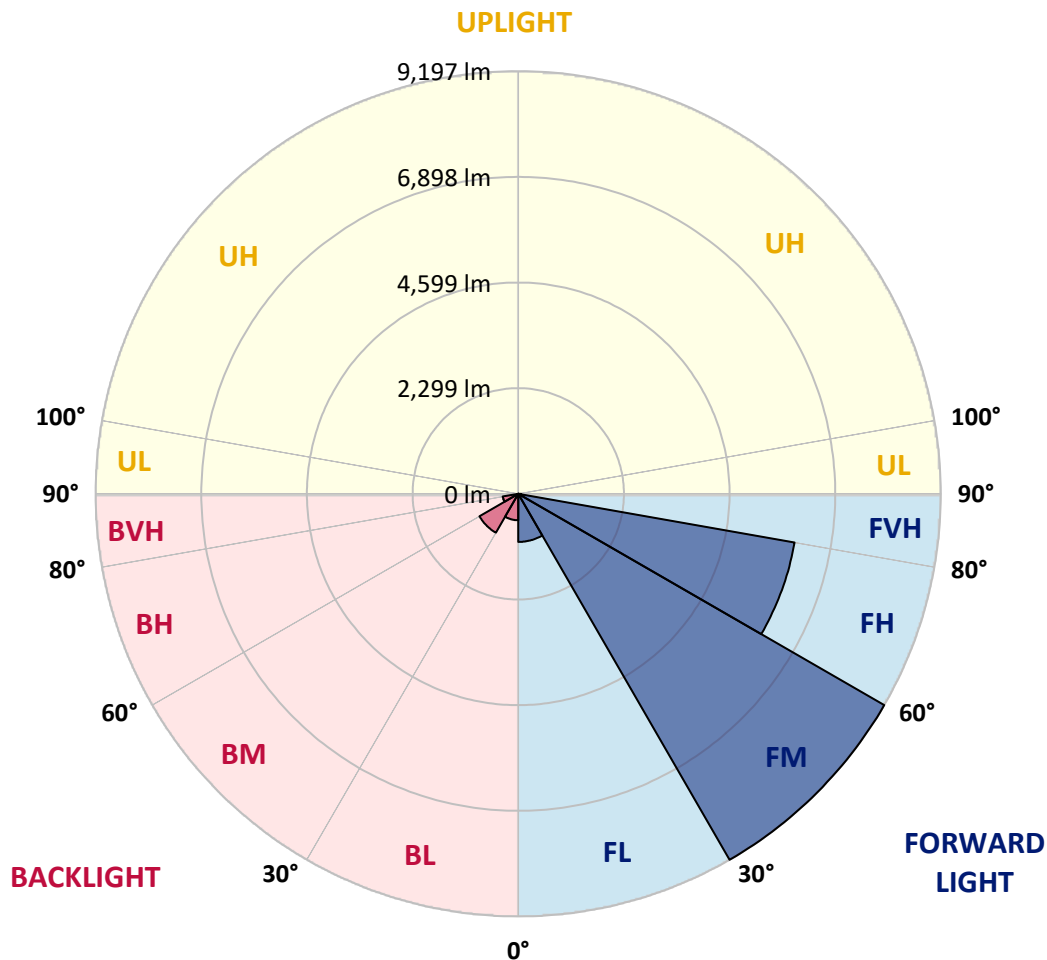
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.7	5.7			
FM (30°-60°)	9197.4	50.2			
FH (60°-80°)	6106.7	33.3			G3/7500
FVH (80°-90°)	64.4	0.4			G1/100
BL (0°-30°)	575.0	3.1	B2/1000		
BM (30°-60°)	975.2	5.3	B1/1000		
BH (60°-80°)	343.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1
2.5°	1999.0	2005.9	2012.8	2015.5	2025.2	2034.9	2041.8	2040.3	2051.4	2056.9	2056.9
5°	1919.1	1919.1	1937.0	1953.5	1981.1	2008.6	2034.9	2040.3	2061.0	2080.4	2087.2
7.5°	1851.5	1855.6	1869.4	1899.7	1937.0	1985.2	2037.6	2050.1	2085.8	2128.6	2146.5
10°	1819.8	1822.5	1840.4	1872.2	1919.1	1985.2	2058.3	2081.7	2136.9	2204.5	2229.2
12.5°	1812.9	1817.0	1835.0	1870.8	1924.5	2004.6	2103.8	2128.6	2208.5	2295.4	2332.6
15°	1825.3	1828.1	1846.0	1884.6	1943.9	2039.0	2164.4	2198.9	2294.0	2394.6	2443.0
17.5°	1869.4	1866.7	1879.0	1910.8	1976.9	2081.7	2237.5	2278.8	2390.5	2528.4	2560.1
20°	2056.9	2039.0	2028.0	2000.4	2026.6	2142.4	2325.7	2386.4	2524.2	2664.9	2686.9
22.5°	2460.8	2420.9	2342.3	2234.8	2152.0	2225.1	2431.9	2502.2	2680.1	2817.9	2817.9
25°	2975.1	2924.0	2845.5	2611.1	2408.4	2361.6	2551.8	2640.0	2849.7	2988.9	2943.4
27.5°	3618.9	3578.9	3425.9	3152.9	2842.8	2600.1	2691.1	2772.4	2999.9	3168.1	3073.0
30°	4142.8	4123.4	3998.0	3754.0	3412.1	3057.8	2950.3	3004.1	3199.8	3394.1	3296.3
32.5°	4585.3	4585.3	4457.1	4229.6	3909.8	3595.5	3390.0	3428.6	3616.1	3840.8	3658.9
35°	5072.0	5055.4	4952.0	4735.6	4377.1	4100.0	4015.9	4068.3	4237.9	4404.7	3956.7
37.5°	5583.4	5577.9	5470.4	5260.8	4968.5	4619.8	4422.6	4436.4	4523.2	4625.3	4305.4
40°	6139.0	6147.3	6006.6	5877.0	5601.3	5244.3	4866.6	4779.7	4861.0	5149.2	4949.3
42.5°	6795.3	6775.9	6715.2	6538.8	6316.9	6103.2	5649.6	5617.9	5689.6	5998.4	5782.0
45°	7557.6	7585.2	7480.4	7382.5	7233.7	7055.8	6676.6	6621.5	6700.1	7179.9	6872.5
47.5°	8321.4	8295.2	8362.8	8344.8	8424.8	8292.4	7957.4	7844.4	8033.3	8488.2	8036.0
50°	8903.2	8932.1	9072.7	9278.2	9621.4	9695.9	9374.6	9336.0	9420.1	9712.4	9076.8
52.5°	9280.9	9377.4	9598.0	10126.0	10745.0	11226.1	10982.1	10961.5	10927.0	11005.5	10072.2
55°	9527.7	9625.6	9913.7	10691.2	11756.9	12538.6	12551.0	12462.8	12235.3	12178.8	11002.8
57.5°	9376.0	9395.3	9806.1	10845.6	12318.0	13474.6	13880.0	13791.8	13371.3	13157.6	11824.5
60°	8427.5	8467.5	9039.7	10261.1	12074.0	13780.7	14761.0	14720.9	14260.5	14019.2	12464.1
62.5°	6747.0	6862.8	7451.5	8813.5	10939.4	13265.1	15118.0	15231.1	14872.6	14540.3	12665.4
63°	6438.1	6400.9	7022.7	8391.6	10638.9	13010.1	15123.5	15266.9	14900.2	14590.0	12610.3
65°	4765.9	4877.5	5281.5	6617.4	8853.5	11823.1	14783.0	15036.7	14798.2	14370.8	11999.6
67.5°	2675.9	2670.4	3117.0	4330.2	6196.9	9274.0	13367.1	13903.4	13853.8	12895.6	9946.8
70°	1309.7	1330.4	1513.7	2244.4	3594.0	6398.2	11107.6	11686.6	11704.5	10128.7	6878.0
72.5°	592.8	602.4	733.4	1093.2	1847.3	3406.6	7654.1	8206.9	8104.9	6454.7	3798.1
75°	313.0	333.6	403.9	550.1	890.6	1404.8	4163.4	4698.3	4484.6	2948.9	1397.9
77.5°	231.6	238.5	274.4	350.2	477.0	547.3	1796.4	2136.9	2001.7	1067.1	463.2
80°	169.6	175.1	204.0	248.1	300.5	278.5	676.9	776.2	696.2	362.6	142.0
82.5°	103.4	104.8	148.9	184.7	188.9	155.8	223.3	239.9	250.9	204.0	77.2
85°	37.2	46.9	100.6	133.7	111.7	78.6	93.7	103.4	113.1	129.6	45.5
87.5°	4.1	5.5	48.2	64.8	31.7	29.0	34.5	38.6	41.3	48.2	22.1
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°	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1
2.5°	2062.4	2067.9	2063.8	2056.9	2055.5	2051.4	2043.1	2043.1	2043.1	2045.9	2043.1
5°	2092.7	2096.9	2087.2	2073.5	2058.3	2039.0	2018.3	2005.9	2004.6	2001.7	1994.8
7.5°	2150.7	2156.1	2134.1	2101.0	2059.7	2012.8	1968.7	1927.4	1908.0	1892.8	1892.8
10°	2234.8	2240.2	2196.2	2136.9	2054.1	1959.0	1854.2	1759.1	1684.7	1650.3	1642.0
12.5°	2335.4	2338.1	2265.1	2161.7	2025.2	1841.9	1618.5	1410.3	1265.6	1199.4	1192.5
15°	2445.7	2426.4	2329.9	2171.3	1942.5	1600.6	1214.6	959.5	809.2	765.1	781.7
17.5°	2557.4	2521.5	2379.5	2156.1	1756.3	1214.6	816.1	654.8	608.0	595.5	595.5
20°	2662.1	2612.5	2415.3	2090.0	1433.8	836.8	605.2	566.6	558.4	550.1	551.5
22.5°	2766.9	2691.1	2447.0	1942.5	1068.4	598.3	541.8	529.4	518.3	507.3	506.0
25°	2868.9	2764.1	2459.5	1669.5	727.9	514.2	494.9	478.4	456.3	443.9	441.1
27.5°	2975.1	2852.4	2451.2	1324.8	530.8	460.5	441.1	417.7	391.5	369.5	369.5
30°	3179.1	3020.6	2422.2	952.6	446.7	405.3	380.5	343.3	314.3	292.3	290.9
32.5°	3457.6	3239.7	2323.0	670.0	397.1	357.0	319.9	278.5	248.1	231.6	231.6
35°	3705.7	3460.3	2136.9	493.5	357.0	310.2	264.7	224.7	201.3	190.3	186.1
37.5°	4083.5	3782.9	1880.5	401.2	318.4	268.8	222.0	184.7	165.4	157.1	157.1
40°	4650.1	4177.2	1566.1	351.6	281.3	228.9	184.7	155.8	140.6	131.0	131.0
42.5°	5353.2	4659.7	1247.6	315.7	246.8	197.2	154.4	132.3	118.5	111.7	110.3
45°	6238.2	5168.4	960.9	282.6	219.2	168.2	131.0	111.7	97.9	93.7	95.1
47.5°	7161.9	5616.5	744.5	253.7	190.3	142.0	111.7	96.5	86.8	81.4	81.4
50°	7950.5	5925.4	565.2	220.6	168.2	120.0	97.9	86.8	78.6	75.8	74.5
52.5°	8609.5	6014.9	432.9	191.6	147.5	103.4	86.8	78.6	71.7	67.6	67.6
55°	9170.6	5936.4	339.1	161.3	124.1	89.6	77.2	70.3	62.0	57.9	56.5
57.5°	9498.7	5684.0	259.2	133.7	100.6	74.5	67.6	59.3	49.6	42.8	42.8
60°	9664.2	5317.4	198.5	110.3	77.2	59.3	55.1	44.1	34.5	29.0	27.6
62.5°	9465.6	4830.7	150.3	86.8	57.9	44.1	37.2	31.7	22.1	16.5	16.5
63°	9342.9	4690.1	144.8	82.7	53.8	41.3	34.5	29.0	19.3	15.2	13.8
65°	8517.2	4076.6	118.5	66.2	42.8	29.0	23.4	20.7	13.8	6.9	5.5
67.5°	6763.6	3118.5	93.7	49.6	30.3	20.7	13.8	12.4	4.1	0.0	0.0
70°	4572.9	2014.2	73.1	35.9	20.7	12.4	6.9	5.5	1.4	0.0	0.0
72.5°	2385.0	1032.6	56.5	26.2	12.4	8.3	4.1	1.4	0.0	0.0	0.0
75°	843.7	351.6	41.3	16.5	8.3	4.1	1.4	0.0	0.0	0.0	0.0
77.5°	255.0	131.0	26.2	12.4	5.5	2.7	0.0	0.0	0.0	0.0	0.0
80°	89.6	48.2	15.2	8.3	4.1	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	44.1	23.4	9.6	6.9	4.1	1.4	0.0	0.0	0.0	0.0	0.0
85°	24.8	15.2	8.3	6.9	4.1	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	11.0	8.3	6.9	5.5	2.7	1.4	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)