

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: P452288

Luminaire Tested: **GALN-SA3B-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452288
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-SA3B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 11685 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

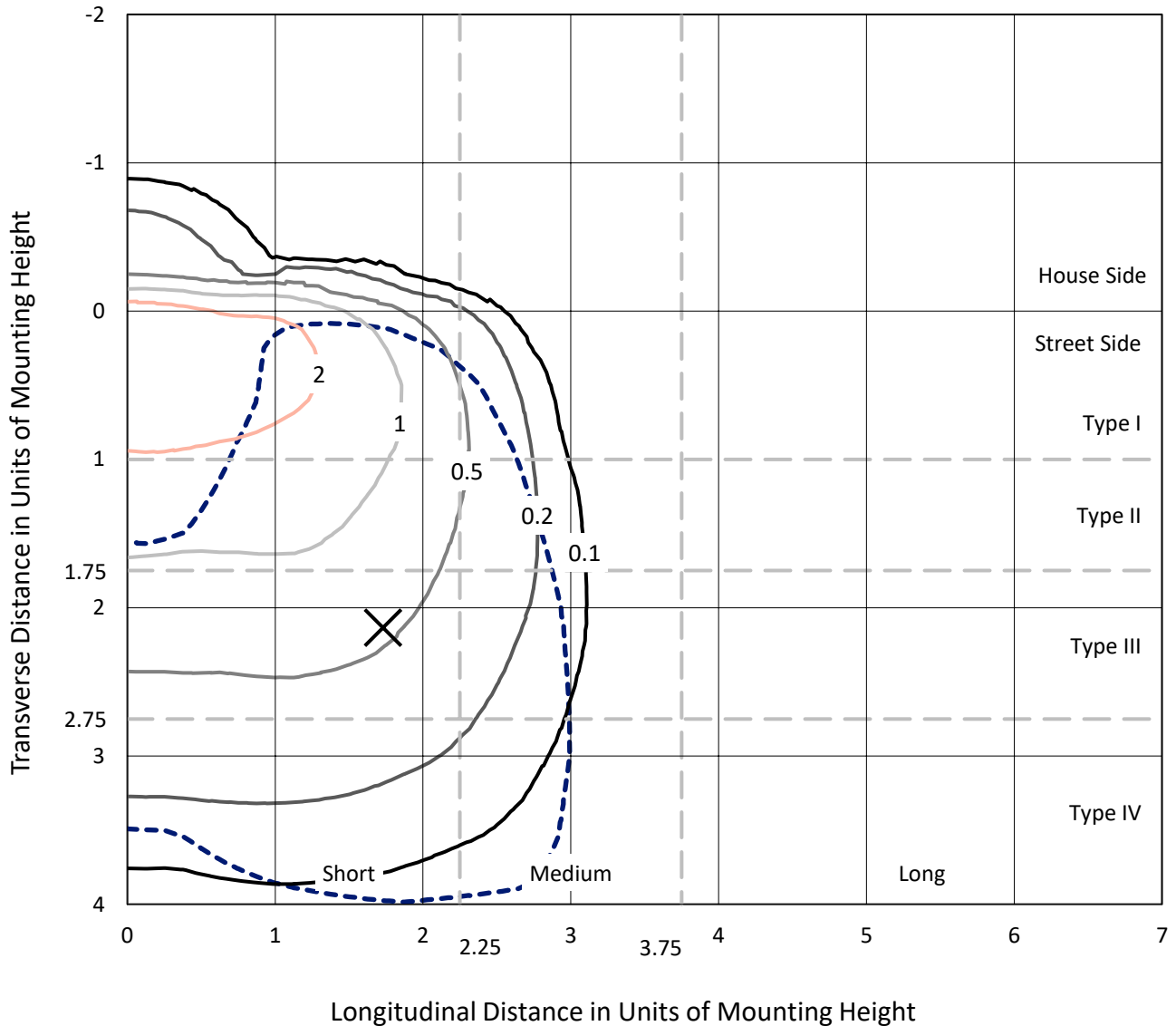
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

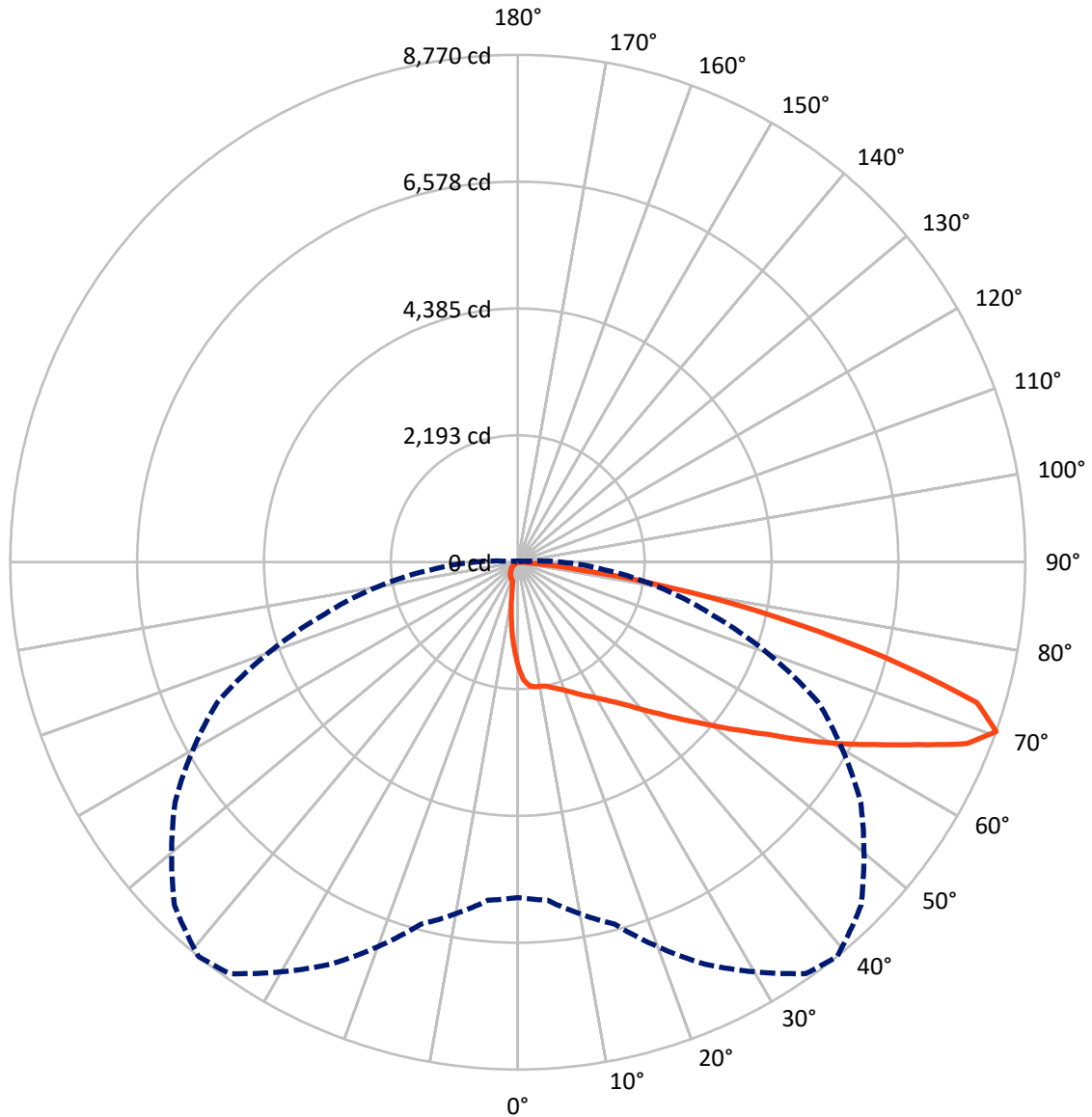
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type 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	761.9	0.0	761.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	10923.1	0.0	10923.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	11685.0	0.0	11685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	1.3
10°-20°	404.1	3.5
20°-30°	677.0	5.8
30°-40°	1050.0	9.0
40°-50°	1663.9	14.2
50°-60°	2439.1	20.9
60°-70°	3126.3	26.8
70°-80°	1964.5	16.8
80°-90°	204.7	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°	11685.0	100.0
0°-180°	11685.0	100.0

Coefficient of Utilization



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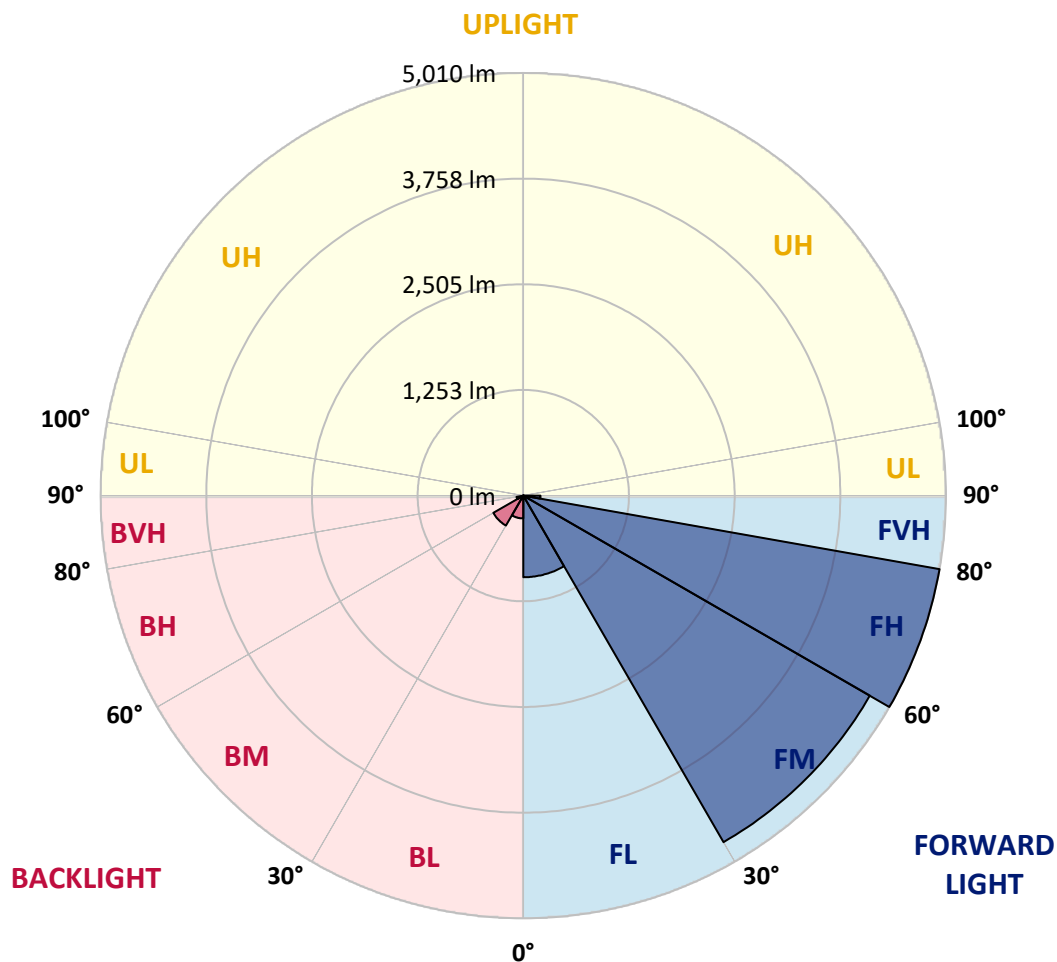
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.9	8.3			
FM (30°-60°)	4742.9	40.6			
FH (60°-80°)	5010.1	42.9			G3/7500
FVH (80°-90°)	203.1	1.7			G2/225
BL (0°-30°)	269.8	2.3	B1/500		
BM (30°-60°)	410.0	3.5	B1/1000		
BH (60°-80°)	80.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3
2.5°	2106.7	2099.7	2090.2	2079.2	2047.8	2042.3	2023.5	1983.4	1935.5	1896.3	1842.1
5°	2206.4	2210.4	2203.3	2183.7	2160.9	2147.6	2124.0	2062.0	1999.9	1920.6	1831.9
7.5°	2229.2	2237.1	2228.4	2209.6	2187.6	2173.5	2154.6	2101.2	2029.0	1938.7	1817.0
10°	2226.9	2236.3	2230.8	2213.5	2195.5	2182.1	2161.7	2119.3	2061.2	1966.2	1821.7
12.5°	2222.9	2235.5	2234.7	2226.1	2211.2	2200.9	2188.4	2150.7	2096.5	2006.2	1847.6
15°	2211.9	2227.6	2241.8	2248.8	2249.6	2249.6	2233.9	2193.9	2142.1	2058.8	1881.4
17.5°	2216.7	2234.7	2270.0	2290.5	2304.6	2303.0	2286.5	2243.3	2186.0	2113.0	1916.7
20°	2245.7	2270.0	2319.5	2360.3	2374.5	2369.8	2347.8	2297.5	2232.4	2159.3	1951.3
22.5°	2317.2	2339.1	2401.2	2449.1	2459.3	2446.7	2415.3	2347.0	2288.1	2209.6	1992.9
25°	2423.9	2449.9	2507.2	2543.3	2543.3	2536.2	2492.3	2412.2	2350.9	2279.5	2047.0
27.5°	2553.5	2575.5	2632.0	2664.2	2645.4	2625.0	2581.0	2484.4	2425.5	2367.4	2112.2
30°	2684.6	2698.8	2758.4	2772.6	2753.0	2727.0	2679.9	2583.3	2531.5	2486.8	2206.4
32.5°	2808.7	2839.3	2888.8	2885.7	2859.0	2846.4	2803.2	2700.3	2671.3	2666.6	2338.4
35°	2932.8	2956.3	3000.3	3011.3	2987.7	2985.4	2954.0	2877.8	2878.6	2909.2	2544.1
37.5°	3039.6	3060.8	3112.6	3136.9	3141.6	3153.4	3140.8	3090.6	3162.0	3246.1	2816.6
40°	3129.1	3158.9	3224.9	3267.3	3315.9	3359.1	3361.5	3372.5	3516.2	3660.7	3172.3
42.5°	3199.0	3240.6	3336.4	3414.9	3526.4	3581.3	3625.3	3685.8	3927.6	4143.6	3591.6
45°	3290.0	3337.9	3457.3	3580.6	3754.9	3845.2	3906.4	4068.2	4411.3	4705.8	4021.9
47.5°	3440.8	3465.9	3587.6	3767.4	3996.7	4125.5	4244.9	4489.8	4930.3	5194.2	4379.9
50°	3634.7	3651.2	3743.1	3992.8	4289.6	4459.2	4676.7	4964.9	5469.0	5599.3	4582.5
52.5°	3849.1	3854.6	3923.7	4240.9	4617.8	4831.4	5074.8	5430.5	5907.9	5888.3	4716.8
55°	4098.0	4090.2	4149.1	4510.3	5006.5	5250.7	5534.2	5907.1	6288.8	6093.2	4793.7
57.5°	4383.0	4361.8	4419.2	4867.5	5504.3	5796.4	6084.6	6318.6	6584.0	6265.2	4830.6
60°	4681.4	4639.0	4707.3	5268.8	6090.9	6368.1	6607.6	6670.4	6894.9	6401.8	4767.0
62.5°	4919.3	4920.1	5047.3	5695.9	6693.9	6936.6	7063.8	7120.3	7162.7	6372.0	4432.5
65°	5290.8	5303.3	5506.7	6288.8	7392.0	7602.4	7689.6	7505.8	7174.5	6001.4	3930.0
67.5°	5673.9	5714.0	6086.2	7105.4	8198.4	8368.0	8255.7	7580.4	6854.1	5155.7	2979.9
70°	5798.8	5864.7	6478.0	7667.6	8682.1	8770.0	8390.0	7232.6	5729.7	3447.1	1499.8
72.5°	5313.5	5420.3	6252.6	7462.6	8373.5	8297.3	7506.6	6065.8	3642.6	1308.9	457.8
75°	3747.0	3794.1	5196.5	6190.6	6734.8	6518.8	5710.1	3910.4	1498.2	367.5	157.0
77.5°	1934.8	1912.0	3090.6	4107.4	4803.1	4579.4	3739.2	2024.3	567.7	153.1	97.4
80°	1000.4	1016.8	1337.2	2152.3	2932.0	2698.0	1993.7	938.3	302.3	84.8	74.6
82.5°	560.6	526.1	768.7	939.9	1371.0	1075.0	764.8	664.3	131.9	51.0	70.7
85°	102.1	106.8	421.7	508.0	475.8	302.3	246.6	443.6	38.5	28.3	49.5
87.5°	1.6	1.6	81.7	146.0	92.7	42.4	77.7	63.6	7.9	11.0	8.6
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°	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3	1823.3
2.5°	1814.6	1784.8	1729.0	1674.1	1604.2	1546.9	1508.4	1468.3	1427.5	1430.7	1440.1
5°	1783.2	1731.4	1621.5	1505.3	1393.8	1293.2	1194.3	1105.6	1069.5	1036.5	1038.0
7.5°	1751.8	1678.8	1517.8	1335.6	1166.8	995.6	871.6	769.5	715.3	674.5	662.7
10°	1737.7	1641.1	1422.8	1172.3	932.8	746.0	586.6	503.3	438.9	418.5	424.0
12.5°	1744.0	1622.2	1337.2	1024.7	739.7	519.8	408.3	365.9	351.8	349.4	347.8
15°	1755.7	1608.9	1253.2	861.4	543.4	386.3	343.1	335.3	333.7	332.1	332.9
17.5°	1771.4	1597.1	1163.7	708.3	416.9	337.6	325.1	321.2	320.4	320.4	320.4
20°	1787.1	1583.8	1064.0	571.6	347.8	318.8	310.9	308.6	307.8	307.8	307.0
22.5°	1805.2	1572.0	962.7	449.1	320.4	305.4	298.4	296.8	296.0	295.2	295.2
25°	1831.1	1557.1	855.1	367.5	303.1	292.9	285.8	284.2	283.5	280.3	281.1
27.5°	1865.7	1546.1	744.4	317.2	287.4	277.2	272.5	270.1	268.5	266.2	267.0
30°	1912.8	1536.7	626.6	289.7	269.3	260.7	256.0	254.4	252.8	250.5	250.5
32.5°	1994.4	1540.6	502.5	267.8	252.8	242.6	237.9	236.3	234.8	232.4	232.4
35°	2116.9	1563.4	402.0	248.9	233.2	223.0	218.3	218.3	215.9	212.8	212.0
37.5°	2317.2	1621.5	322.7	230.9	214.4	204.9	199.4	197.9	195.5	190.8	190.0
40°	2553.5	1711.8	271.7	212.8	197.1	187.7	183.0	178.2	172.0	167.3	166.5
42.5°	2850.3	1804.4	235.6	194.7	180.6	172.0	166.5	158.6	149.2	142.9	142.1
45°	3159.7	1889.2	211.2	178.2	164.9	157.8	151.5	139.0	127.2	119.4	118.6
47.5°	3390.5	1904.9	191.6	162.5	151.5	144.5	135.8	120.1	104.4	97.4	95.0
50°	3499.7	1828.8	171.2	146.8	138.2	130.3	119.4	101.3	84.0	75.4	73.8
52.5°	3538.2	1696.8	154.7	132.7	124.8	115.4	102.1	81.7	66.0	57.3	56.5
55°	3522.5	1530.4	139.8	119.4	109.1	98.2	84.8	65.2	48.7	41.6	40.0
57.5°	3440.0	1318.4	124.8	106.0	93.4	82.4	67.5	48.7	33.0	26.7	25.9
60°	3217.8	1029.4	109.9	91.1	79.3	67.5	53.4	34.5	20.4	14.9	14.9
62.5°	2842.5	764.0	95.8	76.2	66.7	54.2	37.7	22.0	11.0	7.9	7.1
65°	2375.3	563.8	80.1	64.4	55.8	42.4	26.7	13.3	5.5	2.4	1.6
67.5°	1657.6	347.8	66.7	52.6	45.5	30.6	16.5	5.5	2.4	0.0	0.0
70°	753.0	165.7	51.0	40.0	34.5	22.0	8.6	3.1	1.6	0.0	0.0
72.5°	234.0	87.2	36.1	29.1	23.6	14.1	4.7	2.4	1.6	0.0	0.0
75°	108.4	55.8	22.8	15.7	13.3	7.1	3.1	1.6	0.8	0.0	0.0
77.5°	80.9	43.2	13.3	8.6	7.1	4.7	2.4	1.6	0.8	0.0	0.0
80°	70.7	22.0	7.9	5.5	3.9	3.1	1.6	0.8	0.0	0.0	0.0
82.5°	63.6	11.0	4.7	3.1	2.4	1.6	0.8	0.8	0.0	0.0	0.0
85°	34.5	6.3	3.1	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	6.3	3.1	2.4	1.6	1.6	0.8	0.8	0.8	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)