

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: P647882

Luminaire Tested: **GALN-SA4A-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647882
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-SA4A-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA 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: 11651.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

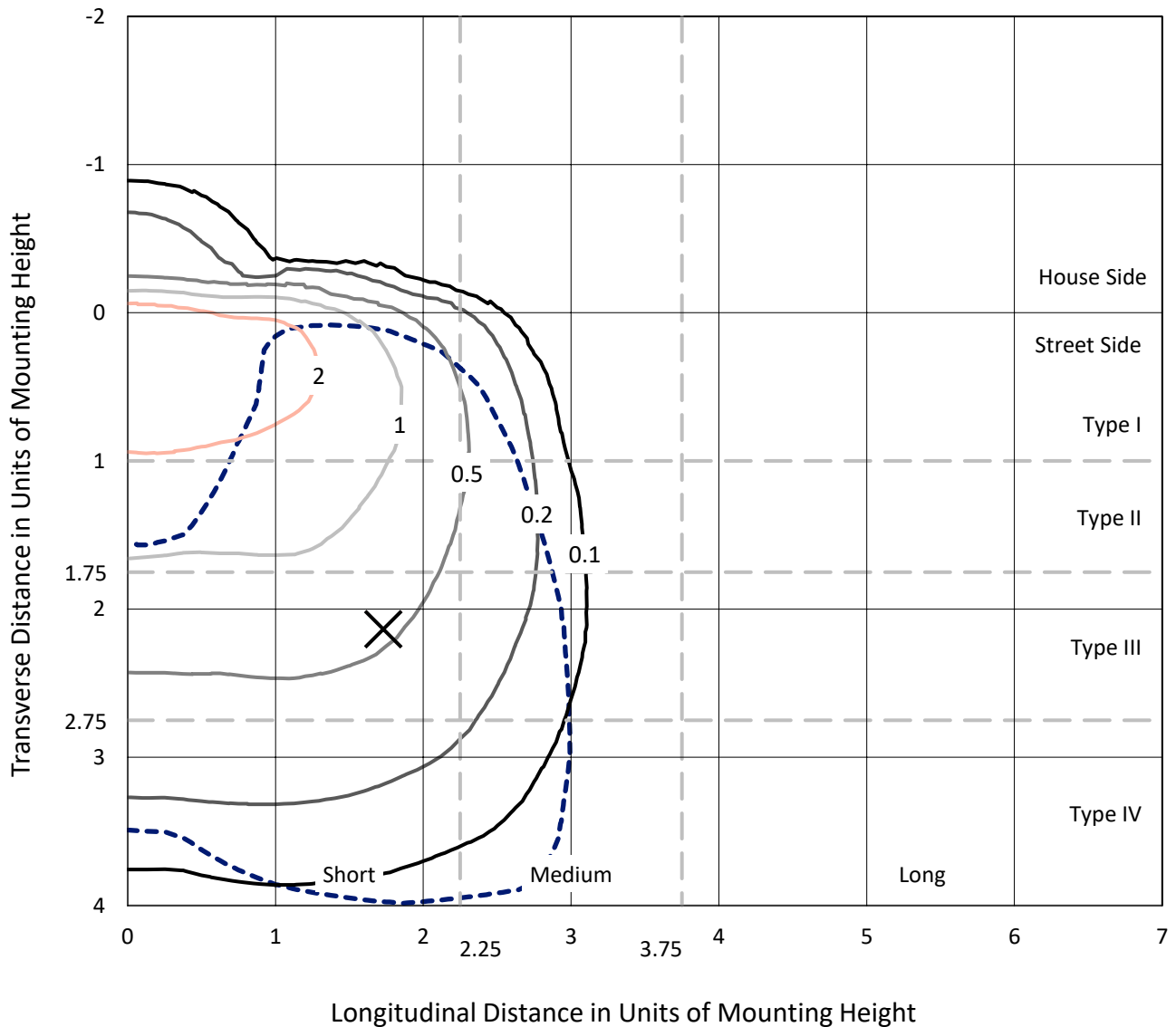
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647882
 CATALOG NUMBER: GALN-SA4A-835-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

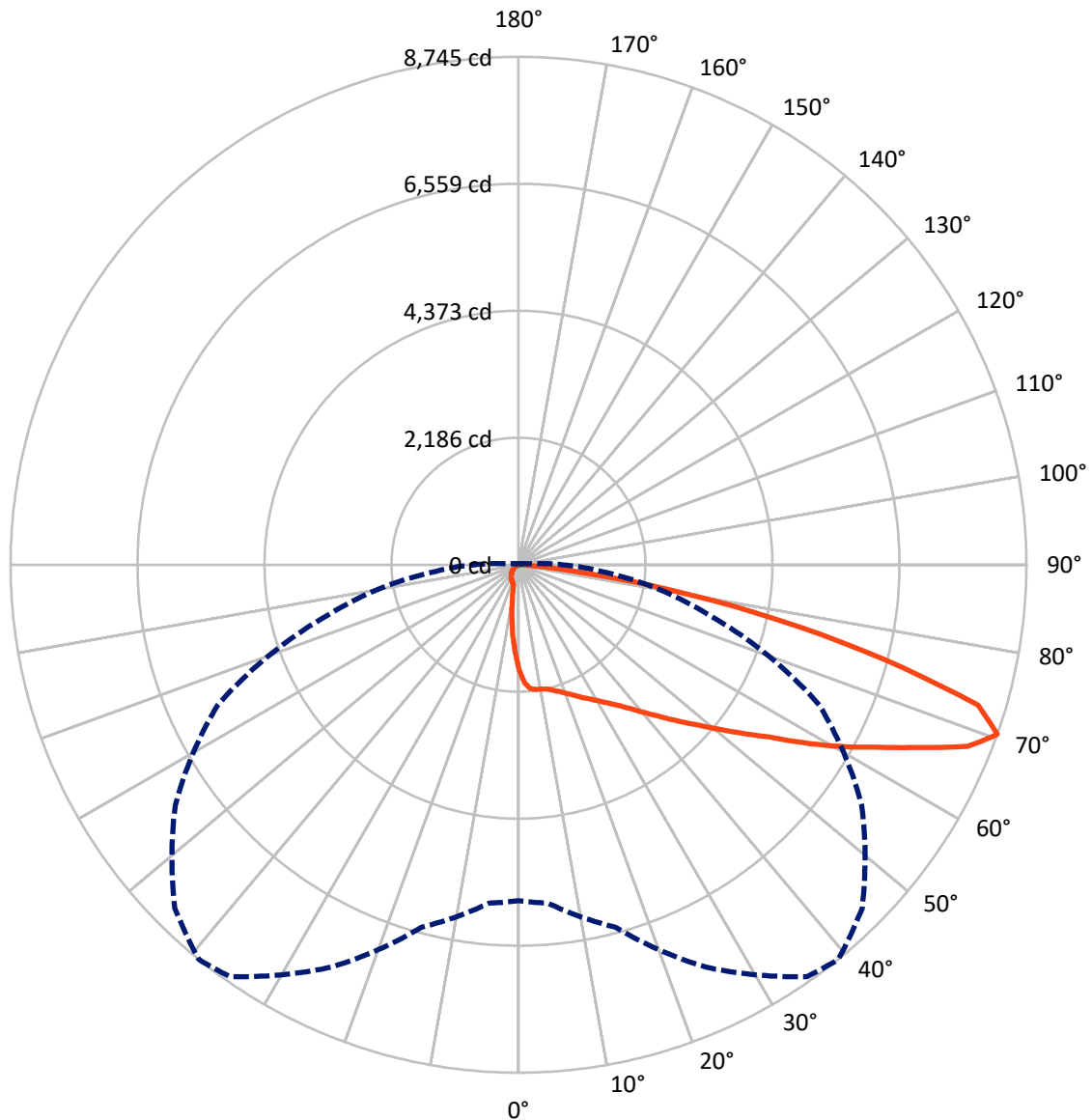
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P647882
CATALOG NUMBER: GALN-SA4A-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P647882
 CATALOG NUMBER: GALN-SA4A-835-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	759.8	0.0	759.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	10892.1	0.0	10892.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	11651.8	0.0	11651.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.3
10°-20°	403.0	3.5
20°-30°	675.1	5.8
30°-40°	1047.0	9.0
40°-50°	1659.2	14.2
50°-60°	2432.1	20.9
60°-70°	3117.4	26.8
70°-80°	1958.9	16.8
80°-90°	204.1	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°	11651.8	100.0
0°-180°	11651.8	100.0

Coefficient of Utilization



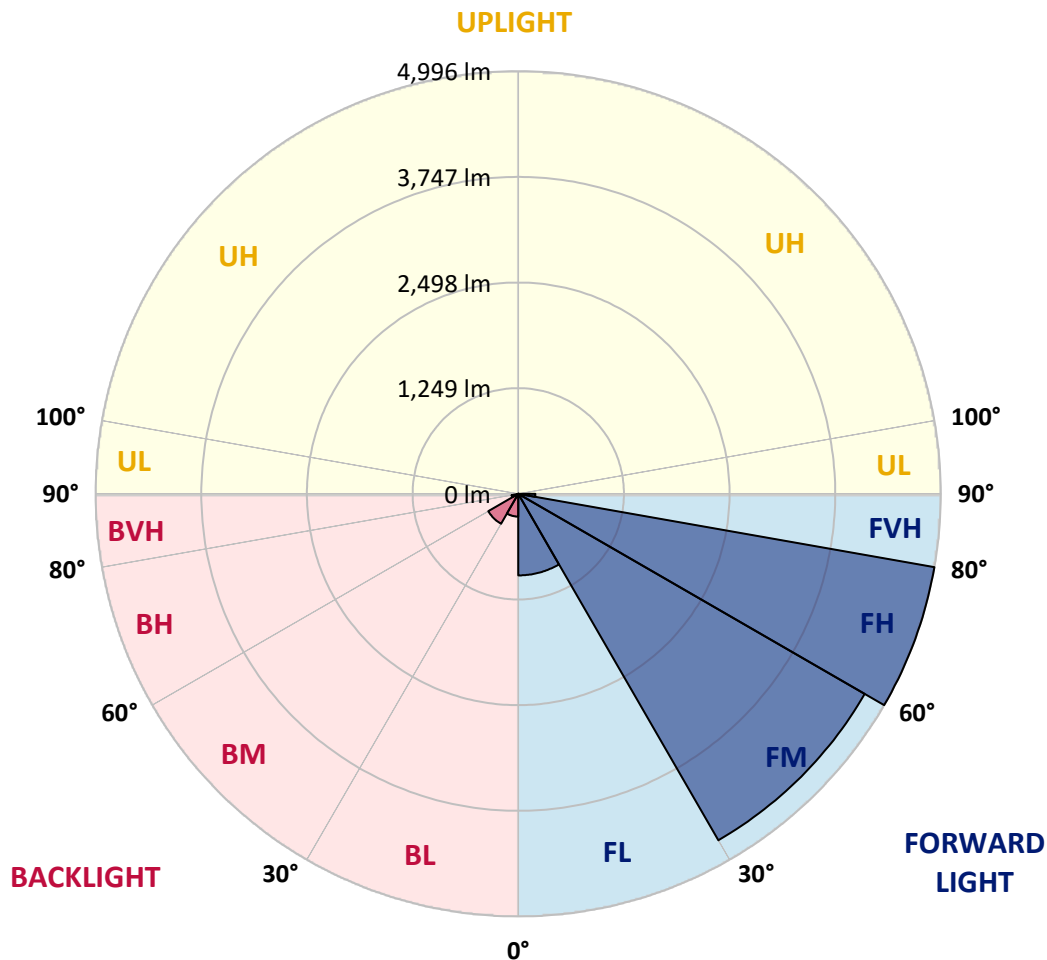
REPORT NUMBER: P647882
 CATALOG NUMBER: GALN-SA4A-835-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.1	8.3			
FM (30°-60°)	4729.4	40.6			
FH (60°-80°)	4995.9	42.9			G2/5000
FVH (80°-90°)	202.6	1.7			G2/225
BL (0°-30°)	269.0	2.3	B1/500		
BM (30°-60°)	408.9	3.5	B1/1000		
BH (60°-80°)	80.4	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-G2

Type IV Short





REPORT NUMBER: P647882

CATALOG NUMBER: GALN-SA4A-835-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0
2.5°	2100.7	2093.7	2084.3	2073.3	2042.0	2036.5	2017.7	1977.8	1930.0	1890.9	1836.8
5°	2200.2	2204.1	2197.0	2177.4	2154.7	2141.4	2117.9	2056.1	1994.2	1915.1	1826.7
7.5°	2222.9	2230.7	2222.1	2203.3	2181.4	2167.3	2148.5	2095.2	2023.2	1933.1	1811.8
10°	2220.5	2229.9	2224.4	2207.2	2189.2	2175.9	2155.5	2113.2	2055.3	1960.6	1816.5
12.5°	2216.6	2229.1	2228.3	2219.7	2204.8	2194.7	2182.1	2144.6	2090.5	2000.5	1842.3
15°	2205.6	2221.3	2235.4	2242.4	2243.2	2243.2	2227.6	2187.6	2135.9	2052.9	1876.0
17.5°	2210.3	2228.3	2263.6	2283.9	2298.0	2296.5	2280.0	2237.0	2179.8	2107.0	1911.2
20°	2239.3	2263.6	2312.9	2353.6	2367.7	2363.0	2341.1	2291.0	2226.0	2153.2	1945.7
22.5°	2310.6	2332.5	2394.3	2442.1	2452.3	2439.7	2408.4	2340.3	2281.6	2203.3	1987.2
25°	2417.0	2442.9	2500.0	2536.1	2536.1	2529.0	2485.2	2405.3	2344.2	2273.0	2041.2
27.5°	2546.2	2568.2	2624.5	2656.6	2637.8	2617.5	2573.6	2477.3	2418.6	2360.7	2106.2
30°	2677.0	2691.1	2750.6	2764.7	2745.1	2719.3	2672.3	2576.0	2524.3	2479.7	2200.2
32.5°	2800.7	2831.2	2880.6	2877.4	2850.8	2838.3	2795.2	2692.7	2663.7	2659.0	2331.7
35°	2924.4	2947.9	2991.8	3002.7	2979.2	2976.9	2945.6	2869.6	2870.4	2900.9	2536.8
37.5°	3030.9	3052.1	3103.7	3128.0	3132.7	3144.4	3131.9	3081.8	3153.1	3236.8	2808.5
40°	3120.2	3149.9	3215.7	3258.0	3306.5	3349.6	3351.9	3362.9	3506.2	3650.3	3163.2
42.5°	3189.9	3231.4	3326.9	3405.2	3516.4	3571.2	3615.0	3675.3	3916.5	4131.8	3581.4
45°	3280.7	3328.5	3447.5	3570.4	3744.2	3834.3	3895.3	4056.6	4398.8	4692.4	4010.4
47.5°	3431.0	3456.1	3577.4	3756.8	3985.4	4113.8	4232.8	4477.1	4916.4	5179.4	4367.5
50°	3624.4	3640.9	3732.5	3981.5	4277.5	4446.6	4663.5	4950.8	5453.4	5583.4	4569.5
52.5°	3838.2	3843.7	3912.6	4228.9	4604.7	4817.7	5060.5	5415.1	5891.1	5871.6	4703.4
55°	4086.4	4078.6	4137.3	4497.5	4992.3	5235.8	5518.4	5890.4	6270.9	6075.9	4780.1
57.5°	4370.6	4349.5	4406.6	4853.7	5488.7	5779.9	6067.3	6300.6	6565.3	6247.4	4816.9
60°	4668.2	4625.9	4694.0	5253.8	6073.6	6350.0	6588.8	6651.4	6875.4	6383.6	4753.5
62.5°	4905.4	4906.2	5033.0	5679.7	6674.9	6916.9	7043.7	7100.1	7142.4	6353.9	4420.0
65°	5275.7	5288.2	5491.0	6270.9	7371.0	7580.8	7667.8	7484.5	7154.1	5984.3	3918.8
67.5°	5657.8	5697.7	6068.9	7085.2	8175.1	8344.3	8232.3	7558.9	6834.7	5141.0	2971.4
70°	5782.3	5848.1	6459.6	7645.8	8657.4	8745.1	8366.2	7212.1	5713.4	3437.3	1495.5
72.5°	5298.4	5404.9	6234.9	7441.5	8349.8	8273.8	7485.3	6048.5	3632.3	1305.3	456.5
75°	3736.4	3783.4	5181.7	6173.0	6715.6	6500.3	5693.8	3899.3	1494.0	366.4	156.6
77.5°	1929.2	1906.5	3081.8	4095.8	4789.5	4566.4	3728.6	2018.5	566.1	152.7	97.1
80°	997.5	1014.0	1333.4	2146.1	2923.6	2690.3	1988.0	935.7	301.5	84.6	74.4
82.5°	559.1	524.6	766.6	937.3	1367.1	1071.9	762.6	662.4	131.5	50.9	70.5
85°	101.8	106.5	420.5	506.6	474.5	301.5	245.9	442.4	38.4	28.2	49.3
87.5°	1.6	1.6	81.4	145.6	92.4	42.3	77.5	63.4	7.8	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



REPORT NUMBER: P647882

CATALOG NUMBER: GALN-SA4A-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0
2.5°	1809.4	1779.7	1724.1	1669.4	1599.7	1542.5	1504.1	1464.2	1423.5	1426.6	1436.0
5°	1778.1	1726.4	1616.9	1501.0	1389.8	1289.6	1190.9	1102.5	1066.4	1033.6	1035.1
7.5°	1746.8	1674.1	1513.5	1331.9	1163.5	992.8	869.1	767.3	713.3	672.6	660.9
10°	1732.7	1636.5	1418.8	1169.0	930.2	743.8	584.9	501.9	437.7	417.3	422.8
12.5°	1739.0	1617.7	1333.4	1021.8	737.6	518.3	407.2	364.9	350.8	348.4	346.9
15°	1750.7	1604.4	1249.7	859.0	541.8	385.2	342.2	334.3	332.8	331.2	332.0
17.5°	1766.4	1592.6	1160.4	706.3	415.8	336.7	324.2	320.2	319.5	319.5	319.5
20°	1782.0	1579.3	1061.0	570.0	346.9	317.9	310.1	307.7	306.9	306.9	306.2
22.5°	1800.0	1567.6	960.0	447.9	319.5	304.6	297.5	296.0	295.2	294.4	294.4
25°	1825.9	1552.7	852.7	366.4	302.2	292.1	285.0	283.4	282.7	279.5	280.3
27.5°	1860.3	1541.7	742.3	316.3	286.6	276.4	271.7	269.4	267.8	265.4	266.2
30°	1907.3	1532.3	624.8	288.9	268.6	260.0	255.3	253.7	252.1	249.8	249.8
32.5°	1988.7	1536.2	501.1	267.0	252.1	241.9	237.2	235.7	234.1	231.8	231.8
35°	2110.9	1559.0	400.9	248.2	232.6	222.4	217.7	217.7	215.3	212.2	211.4
37.5°	2310.6	1616.9	321.8	230.2	213.8	204.4	198.9	197.3	195.0	190.3	189.5
40°	2546.2	1706.9	270.9	212.2	196.5	187.1	182.4	177.7	171.5	166.8	166.0
42.5°	2842.2	1799.3	234.9	194.2	180.1	171.5	166.0	158.2	148.8	142.5	141.7
45°	3150.7	1883.8	210.6	177.7	164.4	157.4	151.1	138.6	126.8	119.0	118.2
47.5°	3380.9	1899.5	191.1	162.1	151.1	144.1	135.5	119.8	104.1	97.1	94.7
50°	3489.8	1823.5	170.7	146.4	137.8	130.0	119.0	101.0	83.8	75.2	73.6
52.5°	3528.1	1692.1	154.3	132.3	124.5	115.1	101.8	81.4	65.8	57.2	56.4
55°	3512.5	1526.1	139.4	119.0	108.8	97.9	84.6	65.0	48.5	41.5	39.9
57.5°	3430.2	1314.7	124.5	105.7	93.2	82.2	67.3	48.5	32.9	26.6	25.8
60°	3208.7	1026.5	109.6	90.8	79.1	67.3	53.2	34.5	20.4	14.9	14.9
62.5°	2834.4	761.9	95.5	76.0	66.6	54.0	37.6	21.9	11.0	7.8	7.0
65°	2368.5	562.2	79.9	64.2	55.6	42.3	26.6	13.3	5.5	2.3	1.6
67.5°	1652.9	346.9	66.6	52.5	45.4	30.5	16.4	5.5	2.3	0.0	0.0
70°	750.9	165.2	50.9	39.9	34.5	21.9	8.6	3.1	1.6	0.0	0.0
72.5°	233.3	86.9	36.0	29.0	23.5	14.1	4.7	2.3	1.6	0.0	0.0
75°	108.1	55.6	22.7	15.7	13.3	7.0	3.1	1.6	0.8	0.0	0.0
77.5°	80.6	43.1	13.3	8.6	7.0	4.7	2.3	1.6	0.8	0.0	0.0
80°	70.5	21.9	7.8	5.5	3.9	3.1	1.6	0.8	0.0	0.0	0.0
82.5°	63.4	11.0	4.7	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0
85°	34.5	6.3	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	6.3	3.1	2.3	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)