

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: P647526

Luminaire Tested: **GALN-SA6D-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25983.9 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

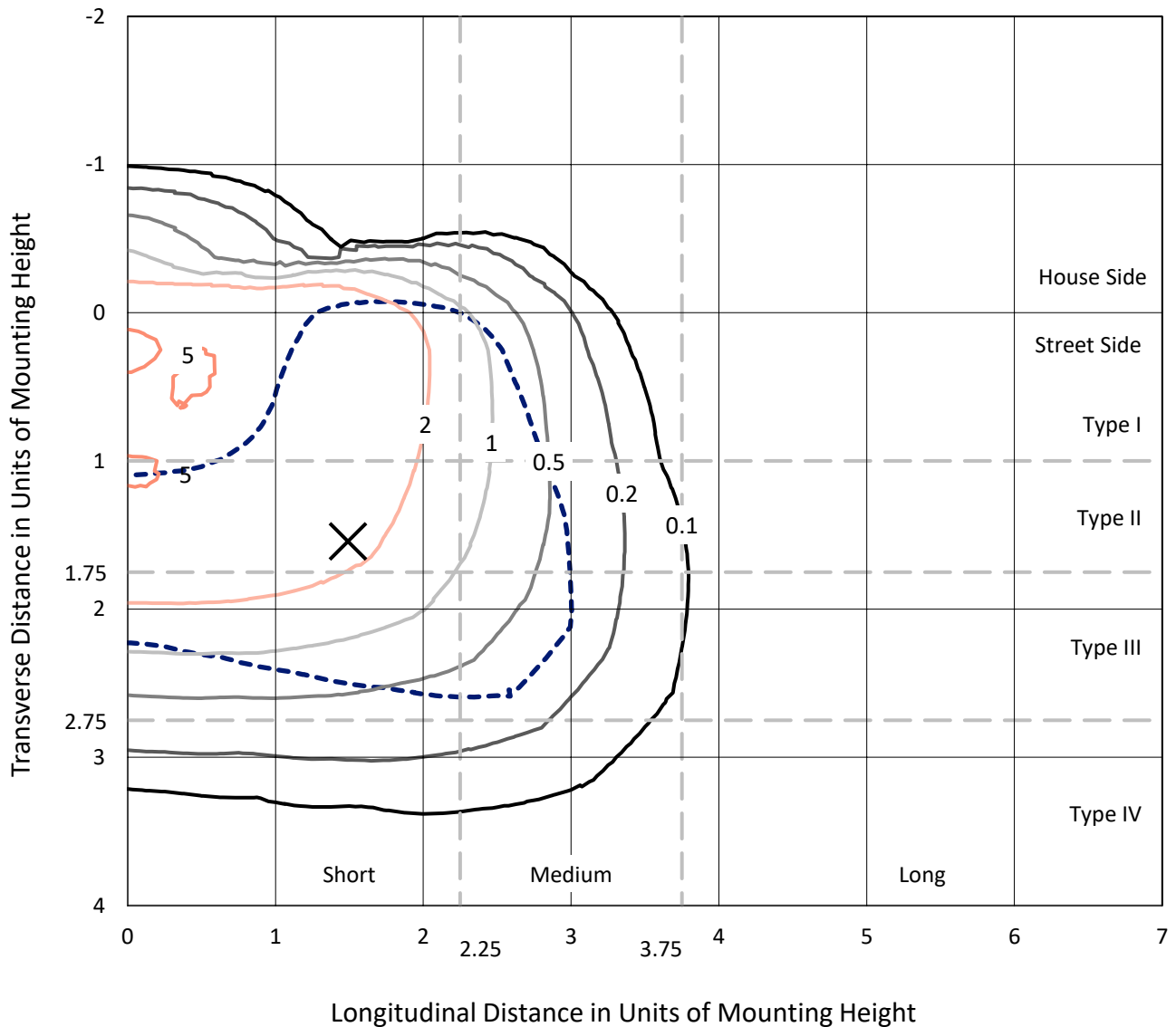
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647526
 CATALOG NUMBER: GALN-SA6D-835-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

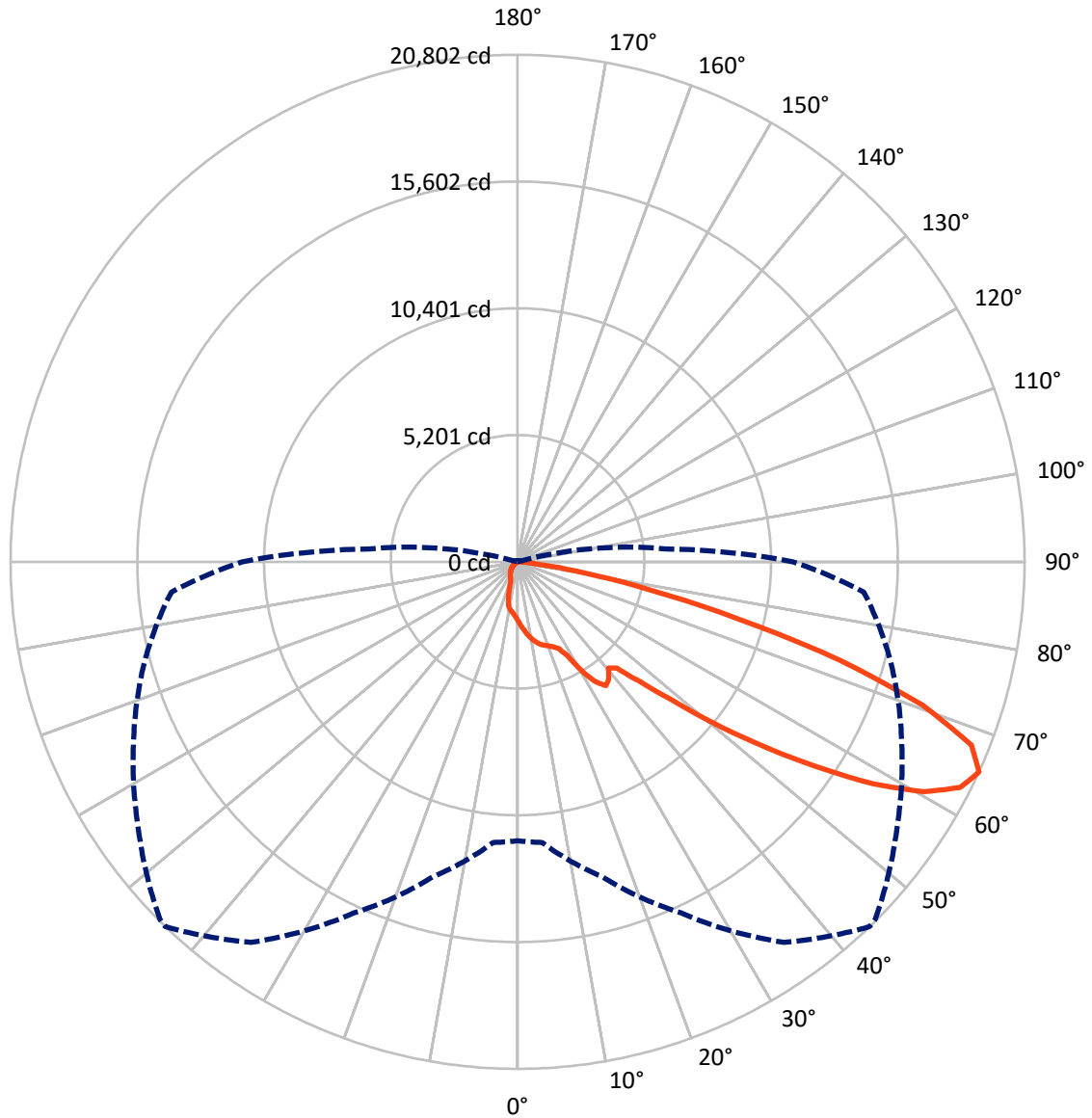
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

REPORT NUMBER: P647526
CATALOG NUMBER: GALN-SA6D-835-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P647526
 CATALOG NUMBER: GALN-SA6D-835-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2394.0	0.0	2394.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	23589.8	0.0	23589.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	25983.9	0.0	25983.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	0.9
10°-20°	723.9	2.8
20°-30°	1227.5	4.7
30°-40°	2040.9	7.9
40°-50°	3563.5	13.7
50°-60°	6961.7	26.8
60°-70°	8077.2	31.1
70°-80°	2941.3	11.3
80°-90°	207.2	0.8
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°	25983.9	100.0
0°-180°	25983.9	100.0

Coefficient of Utilization



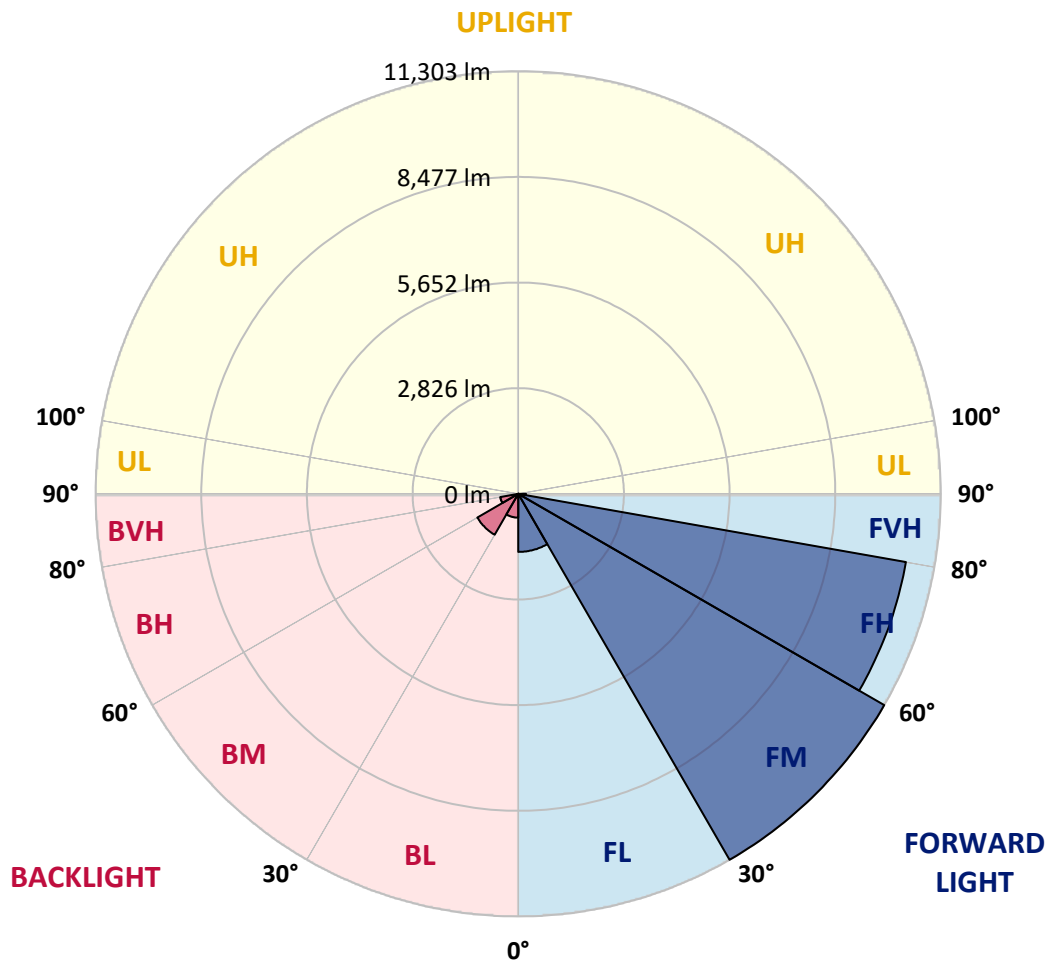
REPORT NUMBER: P647526
 CATALOG NUMBER: GALN-SA6D-835-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1554.1	6.0			
FM (30°-60°)	11303.0	43.5			
FH (60°-80°)	10528.3	40.5			G4/12000
FVH (80°-90°)	204.4	0.8			G2/225
BL (0°-30°)	637.9	2.5	B2/1000		
BM (30°-60°)	1263.1	4.9	B2/2500		
BH (60°-80°)	490.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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-G4

Type III Short





REPORT NUMBER: P647526

CATALOG NUMBER: GALN-SA6D-835-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3
2.5°	2722.1	2710.2	2704.2	2672.5	2648.7	2618.8	2618.8	2581.2	2537.5	2489.8	2446.1
5°	3025.9	3006.0	2980.2	2952.4	2896.8	2817.4	2817.4	2738.0	2646.6	2565.3	2475.9
7.5°	3317.7	3299.9	3256.2	3202.6	3111.3	3027.9	3021.9	2906.7	2797.6	2674.4	2547.4
10°	3573.8	3560.0	3522.2	3419.0	3323.7	3214.5	3212.5	3083.5	2956.4	2805.5	2648.7
12.5°	3752.6	3754.6	3704.9	3605.6	3482.5	3379.3	3371.4	3244.3	3111.3	2948.5	2755.8
15°	3879.6	3879.6	3828.0	3716.8	3605.6	3514.3	3506.4	3395.2	3258.2	3081.5	2873.0
17.5°	3915.4	3927.3	3871.7	3772.4	3683.1	3603.7	3601.6	3508.4	3399.2	3228.4	2992.2
20°	3901.5	3913.4	3869.7	3792.3	3730.8	3685.0	3679.1	3641.4	3540.1	3379.3	3119.2
22.5°	3871.7	3883.6	3851.8	3806.2	3776.4	3790.3	3780.4	3812.1	3758.6	3564.0	3270.1
25°	3877.7	3889.6	3865.7	3839.9	3865.7	3951.1	3976.9	4114.0	4066.3	3798.3	3432.9
27.5°	4064.3	4088.1	4054.4	4066.3	4157.6	4356.1	4405.8	4642.1	4431.6	4096.0	3687.1
30°	4479.2	4463.3	4399.8	4457.4	4775.1	5196.0	5182.1	5144.4	4814.8	4439.5	3988.8
32.5°	4856.5	4842.6	4838.6	5086.8	5662.6	5867.1	5857.2	5491.9	5158.3	4832.7	4286.7
35°	5009.4	4955.8	4943.9	5545.4	6508.5	6238.4	6176.9	5634.8	5575.3	5261.5	4590.4
37.5°	5470.0	5432.3	5247.7	5620.9	6170.9	6081.6	6033.9	5881.0	6020.0	5640.7	4933.9
40°	6419.1	6313.9	6147.1	5781.8	5692.4	5730.2	5777.8	6196.7	6546.1	6159.0	5392.6
42.5°	7598.5	7574.7	7264.9	6583.9	5914.8	5966.4	6027.9	6855.9	7302.6	6939.3	6141.1
45°	9014.1	9047.9	8601.1	7797.0	6919.4	6963.1	7052.5	7828.7	8327.1	8152.4	7318.5
47.5°	10300.7	10274.9	10124.0	9288.1	8478.0	8380.8	8525.7	9077.6	9744.7	9772.5	8779.9
50°	11595.2	11732.2	11507.9	11180.3	10578.6	10374.2	10320.6	10590.5	11607.1	11474.2	10535.0
52.5°	13455.6	13527.1	13106.2	13022.8	13159.8	12496.7	12443.0	12508.6	13417.9	12961.2	11849.4
55°	14625.1	14583.4	14426.5	15077.8	15619.8	14791.9	14724.4	14460.3	14920.9	14011.6	13114.2
57.5°	14994.4	15054.0	15419.3	16596.7	17879.3	17176.4	17053.3	16302.8	16005.0	14990.5	14277.6
60°	14829.6	14938.8	15727.0	17478.2	19257.3	19152.0	19046.8	17786.0	16783.3	15808.5	15093.7
62.5°	13656.1	13809.1	15069.9	17321.4	19723.8	20381.0	20249.9	18711.2	17301.6	16205.5	15236.6
65°	11444.3	11557.5	13368.3	15897.8	19060.6	20802.0	20754.3	19001.1	17382.9	15842.2	14257.8
67.5°	8158.4	8543.5	10221.3	13398.1	17099.0	20083.2	20164.6	18653.6	16618.5	14271.7	11807.7
70°	5128.5	5390.6	6593.8	9591.9	13707.8	17619.2	17887.2	17063.3	14422.5	11124.7	7904.2
72.5°	2446.1	2640.7	3498.4	6071.6	9675.3	13862.7	14075.1	14007.6	11152.5	7008.8	4078.2
75°	1090.0	1163.5	1669.8	3099.3	6246.3	9317.9	9867.8	9959.2	6969.1	3428.9	1586.4
77.5°	555.9	557.9	782.3	1501.0	3119.2	5559.4	5668.5	5988.2	3778.4	1511.0	551.9
80°	295.8	315.7	415.0	708.8	1618.1	2738.0	2724.1	2994.1	1675.8	740.6	184.6
82.5°	133.0	146.9	234.3	371.3	790.2	1038.4	1119.8	1225.1	718.7	472.5	81.4
85°	39.7	47.7	115.2	186.7	285.9	299.8	335.5	432.8	407.0	335.5	41.7
87.5°	6.0	6.0	47.7	51.6	41.7	53.6	55.6	61.5	131.1	123.1	21.8
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: P647526

CATALOG NUMBER: GALN-SA6D-835-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3	2418.3
2.5°	2422.3	2408.4	2358.8	2317.1	2281.3	2259.5	2233.7	2217.8	2209.9	2203.9	2205.9
5°	2432.2	2398.5	2313.1	2245.6	2194.0	2138.4	2100.6	2078.8	2068.8	2053.0	2053.0
7.5°	2487.8	2434.2	2315.1	2211.8	2122.5	2047.1	1975.6	1949.7	1931.9	1927.9	1923.9
10°	2567.2	2499.7	2336.9	2194.0	2066.9	1963.6	1862.4	1773.0	1703.6	1661.8	1655.9
12.5°	2666.5	2569.3	2370.7	2182.1	2019.2	1836.6	1568.5	1387.9	1266.7	1229.0	1234.9
15°	2757.8	2652.6	2404.4	2172.1	1931.9	1522.9	1219.1	1012.6	951.0	945.1	947.0
17.5°	2867.0	2742.0	2444.1	2158.3	1691.7	1163.5	905.4	849.8	861.7	881.6	879.5
20°	2980.2	2837.3	2491.8	2074.9	1350.1	875.6	800.1	806.1	824.0	841.9	845.8
22.5°	3101.3	2946.4	2547.4	1874.3	1030.5	762.4	758.5	766.4	784.3	804.1	808.1
25°	3268.1	3083.5	2589.1	1612.2	780.3	704.9	712.8	726.7	742.6	764.4	768.4
27.5°	3482.5	3268.1	2610.9	1270.7	675.1	653.3	655.2	675.1	694.9	714.8	714.8
30°	3760.5	3488.5	2567.2	961.0	623.4	603.6	595.6	607.5	633.4	653.3	655.2
32.5°	4008.7	3697.0	2452.0	734.6	585.7	557.9	538.1	540.0	550.0	561.9	563.9
35°	4256.9	3899.5	2255.5	617.5	546.0	514.3	484.4	468.5	460.6	454.7	460.6
37.5°	4574.5	4151.6	1993.4	561.9	512.2	472.5	430.9	397.1	369.3	351.4	355.4
40°	4983.6	4501.1	1683.7	526.2	480.4	432.8	377.2	333.6	285.9	270.1	262.1
42.5°	5658.7	5031.2	1358.0	496.3	448.7	391.1	321.7	262.1	218.4	202.5	206.5
45°	6724.9	5700.3	1046.3	464.6	416.9	345.5	270.1	206.5	170.8	162.8	166.8
47.5°	8138.5	6566.0	806.1	428.8	377.2	295.8	212.4	162.8	140.9	139.0	137.0
50°	9468.8	7372.1	673.1	389.2	329.6	246.2	174.7	137.0	123.1	121.1	121.1
52.5°	10672.0	7949.9	548.0	343.5	278.0	202.5	146.9	121.1	109.2	103.3	103.3
55°	11742.2	8327.1	444.7	287.9	218.4	160.8	127.1	109.2	95.3	87.4	85.3
57.5°	12550.2	8372.8	333.6	230.3	162.8	125.1	109.2	95.3	79.4	69.5	65.5
60°	12895.7	7977.7	246.2	174.7	121.1	99.3	87.4	77.4	59.6	49.6	47.7
62.5°	12548.3	7209.3	182.7	133.0	93.3	73.4	61.5	57.6	41.7	29.8	27.8
65°	11303.4	6099.4	144.9	101.2	69.5	53.6	39.7	37.7	25.8	13.9	11.9
67.5°	9055.8	4777.1	115.2	75.5	49.6	35.7	25.8	23.8	13.9	4.0	4.0
70°	5888.9	3053.7	93.3	55.6	31.8	23.8	15.9	11.9	7.9	2.0	0.0
72.5°	2912.7	1427.6	75.5	43.7	21.8	11.9	6.0	4.0	6.0	0.0	0.0
75°	1129.7	508.2	55.6	29.8	11.9	6.0	4.0	0.0	2.0	0.0	0.0
77.5°	375.3	168.7	33.7	15.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
80°	139.0	65.5	17.9	9.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.6	25.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.8	15.9	7.9	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	11.9	7.9	6.0	4.0	2.0	0.0	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)