

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: P647549

Luminaire Tested: **GALN-SA7D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35692.3 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

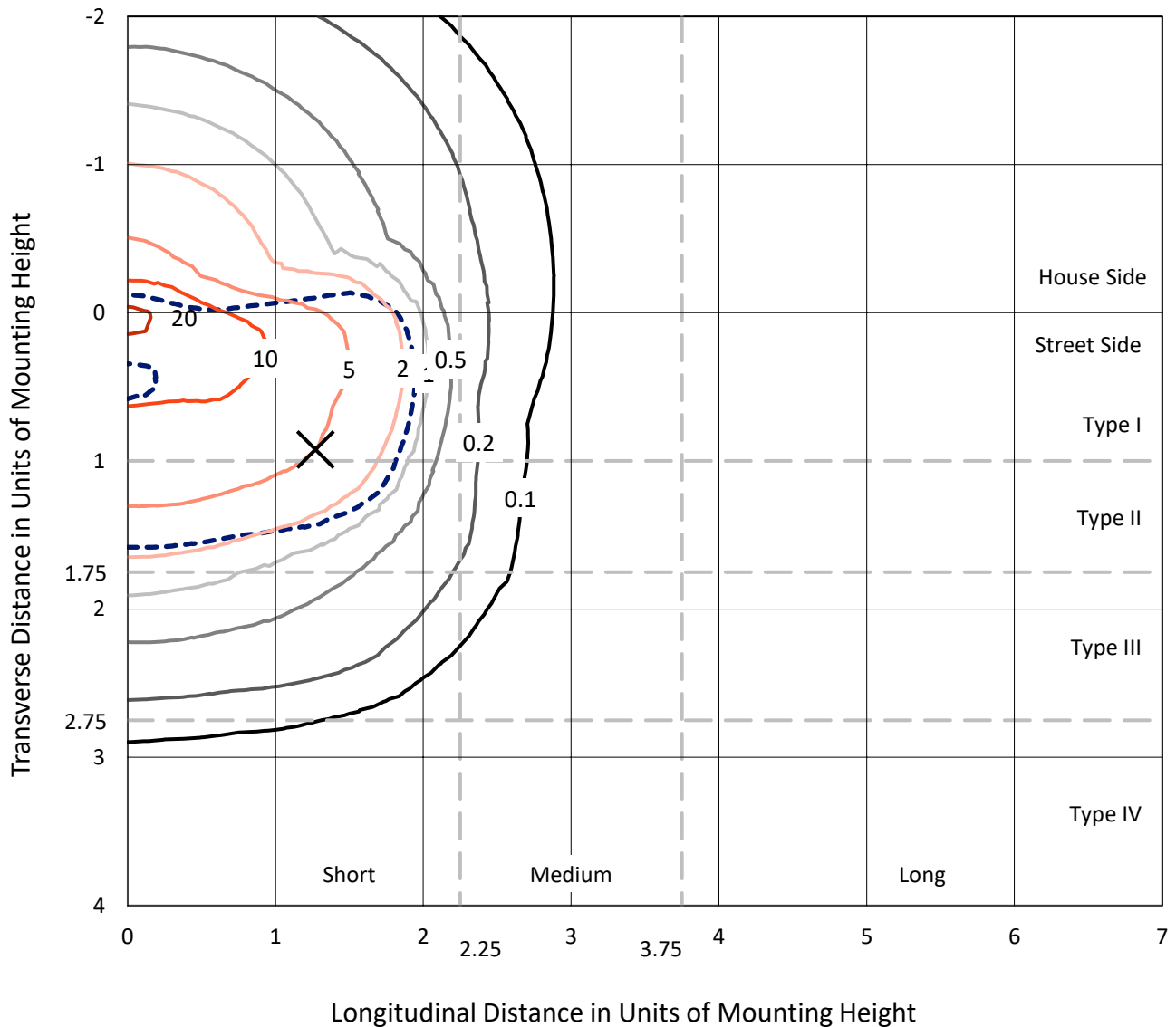
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

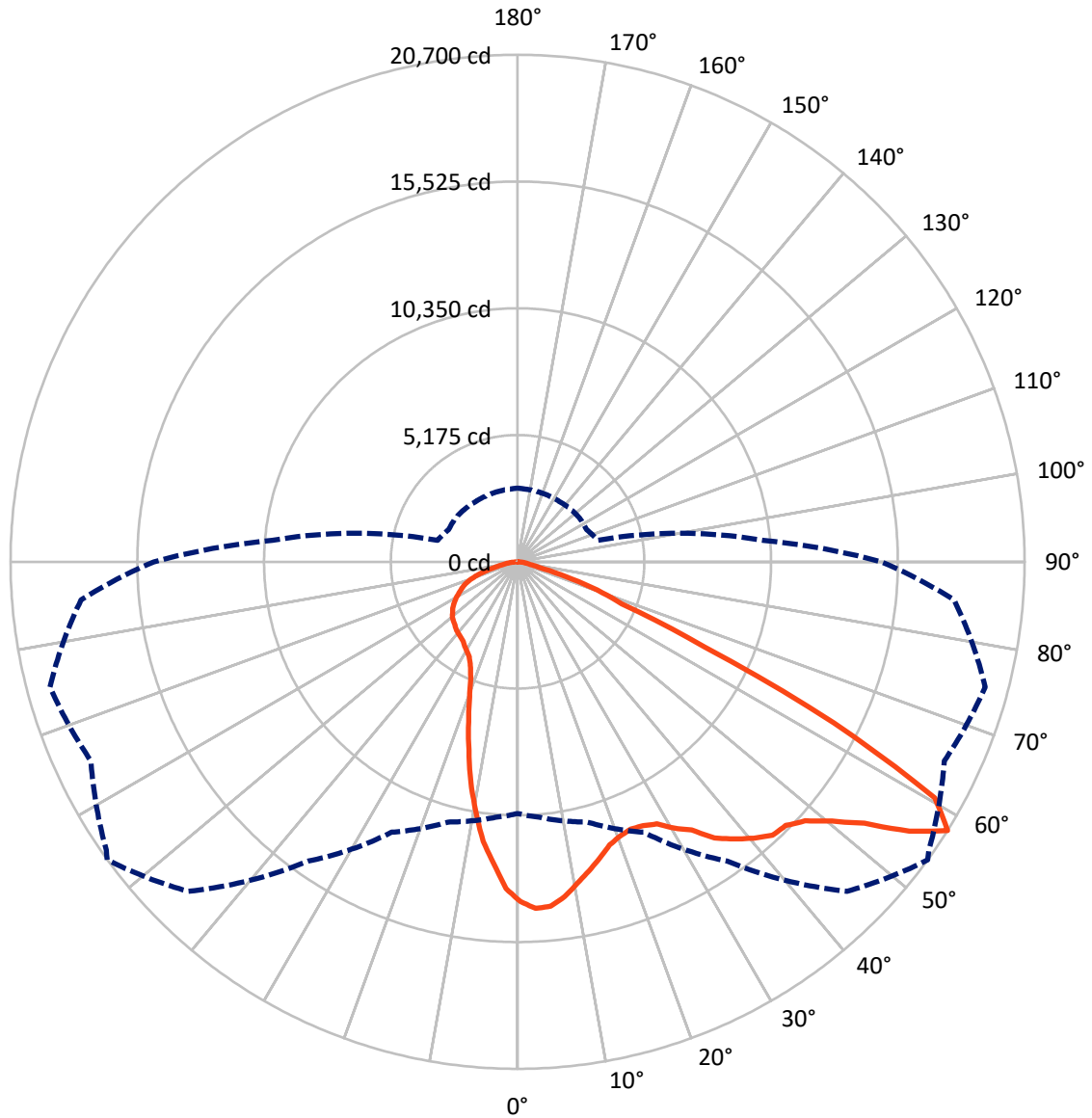
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9874.5	0.0	9874.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	25817.8	0.0	25817.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	35692.3	0.0	35692.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1196.4	3.4
10°-20°	2770.2	7.8
20°-30°	3892.1	10.9
30°-40°	5441.2	15.2
40°-50°	7366.4	20.6
50°-60°	8972.5	25.1
60°-70°	4673.3	13.1
70°-80°	1197.5	3.4
80°-90°	182.7	0.5
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°	35692.3	100.0
0°-180°	35692.3	100.0

Coefficient of Utilization

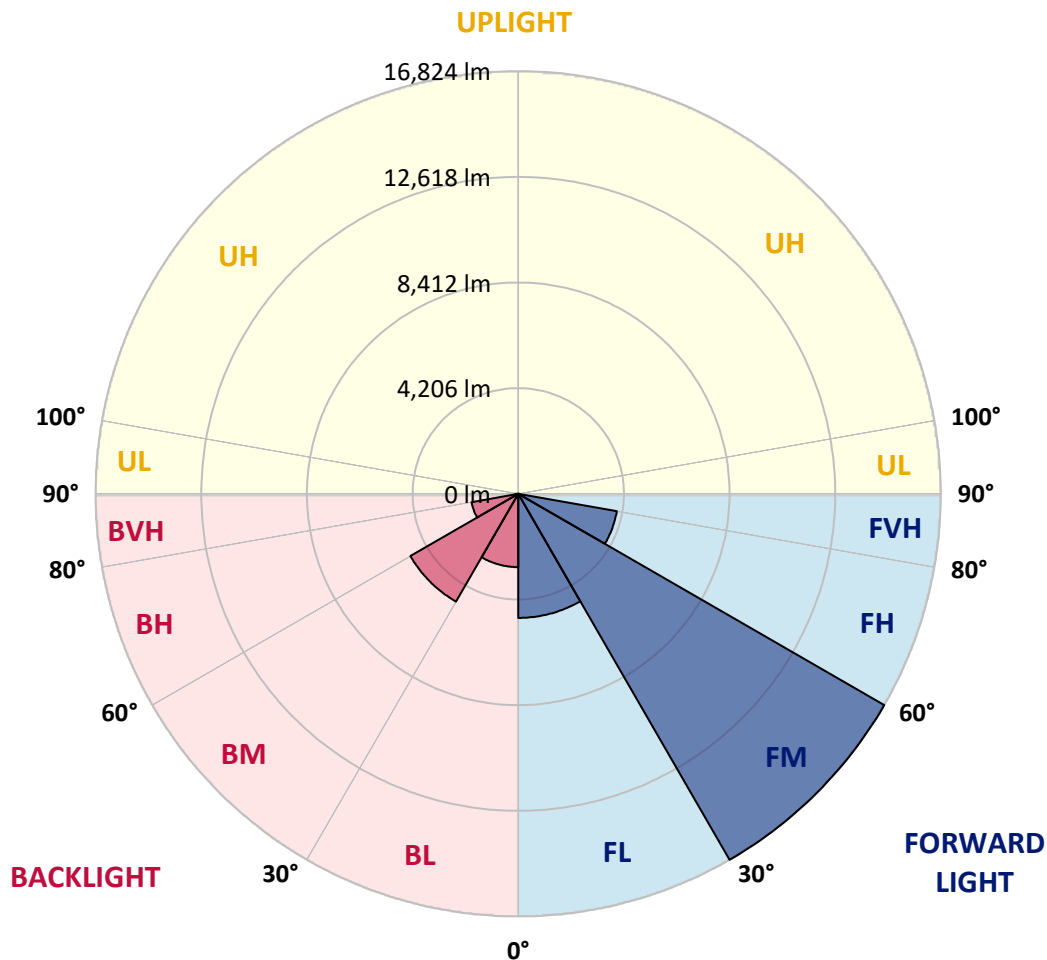


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4940.3	13.8			
FM (30°-60°)	16824.2	47.1			
FH (60°-80°)	3984.3	11.2			G2/5000
FVH (80°-90°)	69.0	0.2			G1/100
BL (0°-30°)	2918.4	8.2	B4/5000		
BM (30°-60°)	4955.9	13.9	B3/5000		
BH (60°-80°)	1886.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	113.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2
2.5°	14267.7	14212.7	14221.9	14295.2	14203.5	14166.8	14166.8	13987.9	14001.6	13877.7	13845.6
5°	13937.4	13809.0	13896.1	14006.2	14024.5	14061.3	14120.9	14075.1	13946.6	13813.5	13597.9
7.5°	13074.9	13189.6	13221.7	13299.7	13464.9	13616.3	13804.4	13675.9	13671.3	13538.3	13409.8
10°	12317.9	12249.2	12423.5	12538.2	12813.4	13065.8	13354.8	13341.0	13409.8	13258.5	13038.2
12.5°	11565.5	11510.5	11593.1	11854.6	12239.9	12607.0	12951.1	12822.6	13189.6	13162.1	12689.5
15°	10767.3	10808.6	10927.9	11171.1	11675.7	12116.1	12552.0	12556.5	12882.2	12992.3	12359.3
17.5°	10207.6	10161.8	10313.1	10675.6	11125.2	11652.8	12148.2	12249.2	12749.2	12813.4	12258.3
20°	9790.2	9854.4	10051.6	10235.1	10753.6	11391.2	11950.9	11987.7	12721.6	12896.0	12097.7
22.5°	9689.2	9652.5	9716.7	10015.0	10441.6	11134.3	11845.4	11983.0	12717.1	12868.4	11795.0
25°	9583.7	9702.9	9698.4	9996.6	10308.5	10927.9	11932.6	12084.0	12960.2	13010.7	11836.2
27.5°	9822.3	9808.5	9937.0	9959.8	10345.2	10982.9	12116.1	12230.8	13363.9	13322.7	11868.3
30°	10060.8	9992.0	10070.0	10340.7	10519.6	11299.5	12620.7	12611.5	13887.0	13859.4	11969.3
32.5°	10354.4	10322.3	10372.8	10611.3	10914.1	11721.6	13047.4	13318.0	14419.1	14593.5	12317.9
35°	10409.4	10542.5	10661.8	10982.9	11414.2	12405.1	13850.3	14075.1	15033.8	15579.8	12983.2
37.5°	10758.1	10808.6	11088.5	11657.3	12051.9	13318.0	14359.4	14501.7	15593.5	16212.9	13685.1
40°	11129.7	11189.4	11611.4	12207.8	12749.2	13914.5	14836.6	14882.5	15772.5	16699.2	14143.9
42.5°	11634.4	11689.4	12106.9	12854.7	13579.6	14423.7	15258.6	15309.1	15758.7	17258.9	14873.3
45°	12157.4	12290.4	12781.3	13630.0	14281.5	15020.1	15355.0	15561.4	15887.1	17759.0	15465.1
47.5°	12891.4	13015.3	13419.0	14249.3	15010.9	15543.1	15800.0	16001.9	16194.6	18194.8	15845.9
50°	13671.3	13694.3	14185.1	14937.5	15497.2	16134.9	16630.4	16699.2	16598.3	18699.4	16492.7
52.5°	14244.8	14318.2	14698.9	15433.0	16267.9	17052.4	17731.4	17804.8	17607.6	18887.5	16713.0
55°	13295.1	13253.8	13873.2	14850.4	16786.3	18419.6	19406.0	19461.0	18341.6	19470.2	17433.3
57.5°	10276.4	10473.7	11001.3	12180.3	14914.6	19025.2	20699.6	20502.4	19222.4	19763.8	17892.0
60°	7468.7	7422.9	7776.1	8565.2	11239.8	16396.4	19571.1	19772.9	18502.1	17814.0	14754.0
62.5°	6083.3	6019.1	6046.6	6074.1	7253.2	10882.0	14487.9	14483.3	14249.3	12804.2	9950.7
65°	4863.0	5014.3	5028.1	5234.6	5385.9	6500.8	8395.5	8845.1	7702.8	6317.2	4583.1
67.5°	3665.5	3610.5	3794.0	4528.1	4812.5	4693.2	4583.1	4633.6	3293.9	2376.4	2238.8
70°	2160.8	2137.8	2358.1	3156.4	3963.8	3729.8	3454.5	3459.1	2261.7	1660.7	1848.8
72.5°	1183.7	1179.0	1224.9	1601.1	2252.5	2339.8	2073.6	2137.8	1348.8	1344.2	1445.1
75°	660.6	646.8	633.1	706.5	812.0	857.9	876.3	885.4	926.7	1036.8	1078.1
77.5°	243.1	234.0	234.0	270.7	344.1	431.3	545.9	555.1	656.1	752.4	793.6
80°	82.6	91.8	123.9	169.8	229.4	307.4	371.6	380.8	463.4	527.6	541.4
82.5°	50.5	55.0	82.6	119.3	165.1	215.6	275.2	279.8	344.1	385.4	403.7
85°	22.9	27.6	45.9	73.4	105.5	142.2	146.8	146.8	142.2	146.8	137.7
87.5°	0.0	0.0	9.2	9.2	9.2	13.8	18.3	13.8	22.9	27.6	27.6
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°	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2	13873.2
2.5°	13749.3	13698.8	13542.8	13405.2	13363.9	13180.5	12909.8	12941.9	12744.6	12836.3	12740.0
5°	13561.2	13391.5	12992.3	12822.6	12377.6	12175.7	12038.1	11694.0	11533.4	11501.3	11363.7
7.5°	13079.5	12974.0	12473.9	12015.1	11542.6	11138.9	10620.5	10267.2	10015.0	9946.1	9744.3
10°	12698.7	12464.7	11772.0	11074.7	10400.3	9698.4	9024.0	8496.4	8239.5	7941.3	7840.3
12.5°	12322.5	11969.3	11033.4	10138.8	9267.1	8381.7	7565.1	6922.8	6363.1	6230.1	6184.2
15°	12088.6	11473.8	10372.8	9294.7	8056.0	6899.9	6083.3	5661.2	5317.1	5174.9	5275.9
17.5°	11781.2	11065.5	9739.7	8303.7	6941.1	5876.8	5193.2	4931.8	4807.9	4821.6	4780.4
20°	11395.9	10680.1	8909.3	7404.5	5945.6	5096.9	4707.0	4610.6	4629.0	4661.1	4647.3
22.5°	11120.6	10212.2	8308.3	6487.0	5138.2	4665.7	4505.1	4436.3	4495.9	4523.5	4500.5
25°	10909.5	9813.1	7578.9	5674.9	4670.3	4422.5	4349.1	4344.6	4436.3	4473.0	4450.0
27.5°	10716.8	9441.5	6854.0	5055.7	4358.3	4234.5	4211.5	4266.6	4326.2	4362.9	4395.0
30°	10602.1	9157.0	6175.1	4537.3	4202.4	4142.7	4101.4	4151.9	4184.0	4220.7	4202.4
32.5°	10712.2	8955.2	5519.0	4243.6	4073.9	4014.2	4069.3	4037.1	4092.2	4124.3	4073.9
35°	11056.4	8776.3	5051.1	4087.7	3927.1	3950.0	3959.2	3945.4	3968.3	3940.8	4000.5
37.5°	11395.9	8712.0	4619.8	3954.6	3858.2	3858.2	3849.1	3821.5	3867.4	3858.2	3885.8
40°	11827.1	8753.3	4252.8	3812.3	3794.0	3784.9	3748.1	3743.5	3725.2	3729.8	3739.0
42.5°	12203.3	8845.1	4041.8	3720.6	3734.4	3752.8	3683.9	3628.9	3651.8	3605.9	3605.9
45°	12602.4	8927.6	3853.7	3656.4	3642.6	3638.1	3583.0	3550.9	3532.5	3537.1	3578.4
47.5°	13230.9	9046.9	3711.4	3569.2	3578.4	3509.6	3495.8	3454.5	3472.9	3500.4	3505.0
50°	13675.9	9299.2	3601.3	3468.3	3500.4	3454.5	3372.0	3353.6	3353.6	3399.5	3390.3
52.5°	13987.9	9652.5	3495.8	3358.2	3372.0	3335.3	3307.7	3266.4	3238.9	3303.2	3335.3
55°	14942.1	10239.8	3468.3	3266.4	3261.8	3225.2	3174.7	3133.4	3119.6	3128.8	3193.0
57.5°	14850.4	10056.2	3381.2	3105.8	3096.7	3046.3	2995.8	2982.0	2977.4	2986.6	3004.9
60°	12056.5	7427.5	3018.7	2922.4	2908.6	2899.4	2848.9	2793.9	2766.3	2793.9	2771.0
62.5°	7978.0	4973.1	2660.9	2702.1	2711.3	2688.4	2605.8	2550.8	2559.9	2592.0	2541.6
65°	3917.9	2922.4	2413.1	2523.2	2532.4	2468.2	2390.2	2326.0	2293.9	2321.4	2298.4
67.5°	2238.8	2234.2	2211.3	2326.0	2321.4	2257.2	2133.3	2078.2	2023.2	2032.4	2018.6
70°	1899.3	1936.0	1981.9	2050.7	2046.1	1972.7	1825.9	1784.6	1706.6	1697.5	1674.5
72.5°	1495.6	1559.8	1660.7	1711.2	1669.9	1578.1	1481.8	1413.0	1344.2	1302.9	1316.7
75°	1110.2	1202.0	1257.0	1289.1	1224.9	1174.4	1096.4	1013.9	931.3	894.6	880.9
77.5°	807.4	835.0	885.4	908.4	867.1	816.6	770.7	688.2	610.2	559.7	545.9
80°	564.3	582.6	619.4	619.4	619.4	596.4	536.7	454.2	403.7	357.8	348.7
82.5°	394.6	412.9	449.6	431.3	426.7	399.1	362.5	298.2	243.1	211.0	201.9
85°	137.7	151.4	183.5	220.2	234.0	229.4	206.5	165.1	128.5	105.5	96.3
87.5°	32.1	32.1	36.7	32.1	32.1	36.7	32.1	32.1	32.1	22.9	18.3
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)