

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: P533445

Luminaire Tested: **GALN-SA8D-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37991 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

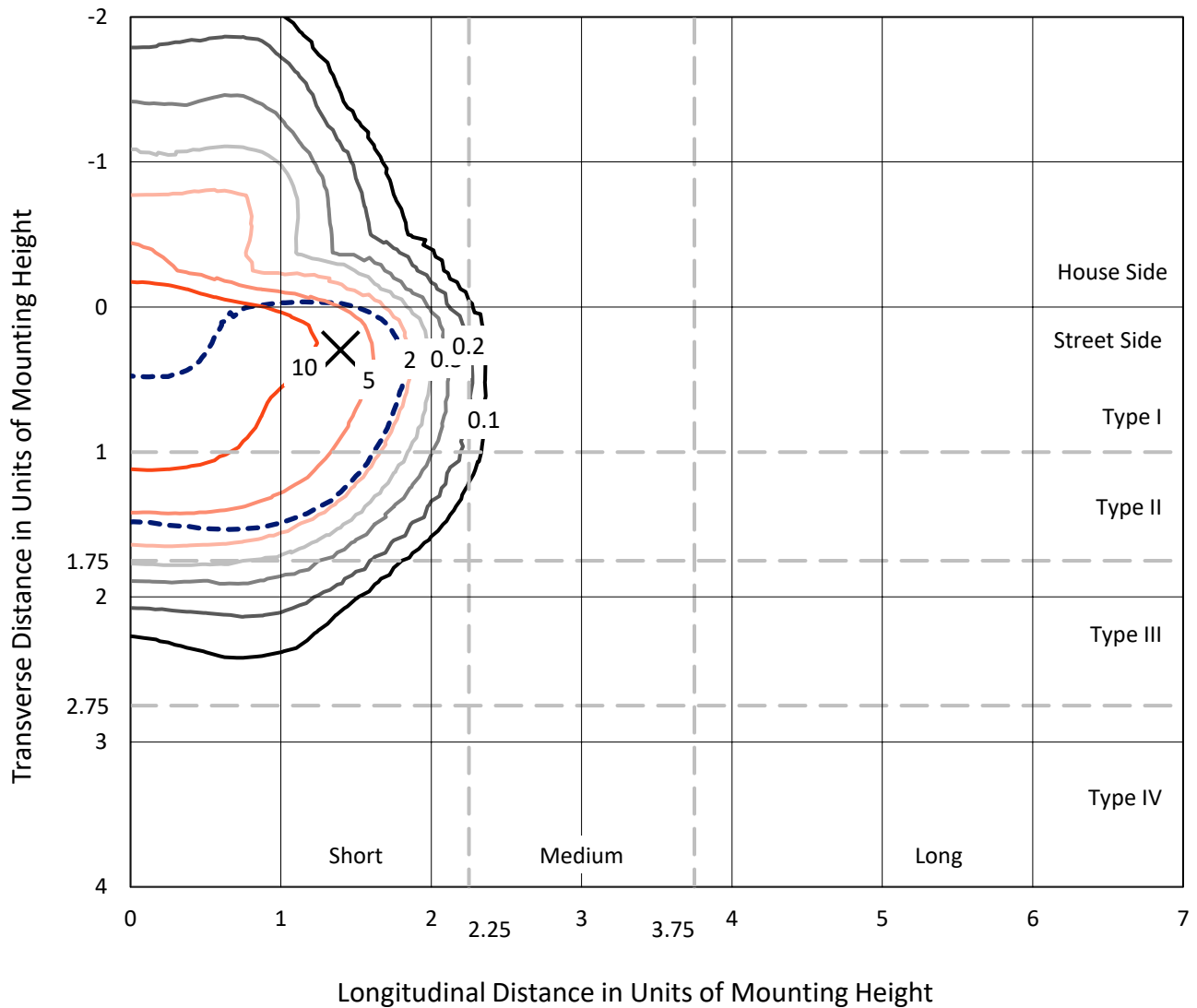
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

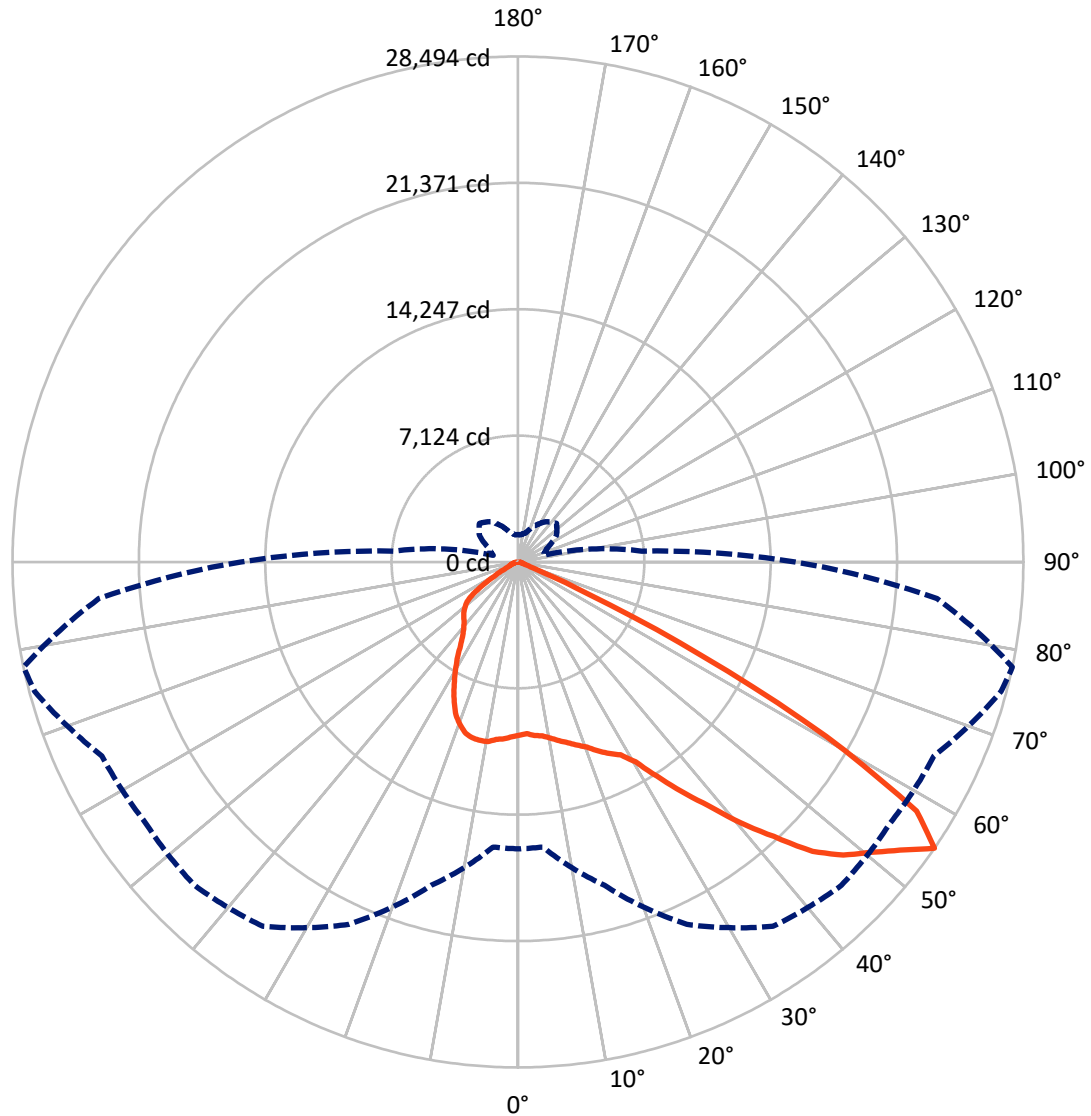
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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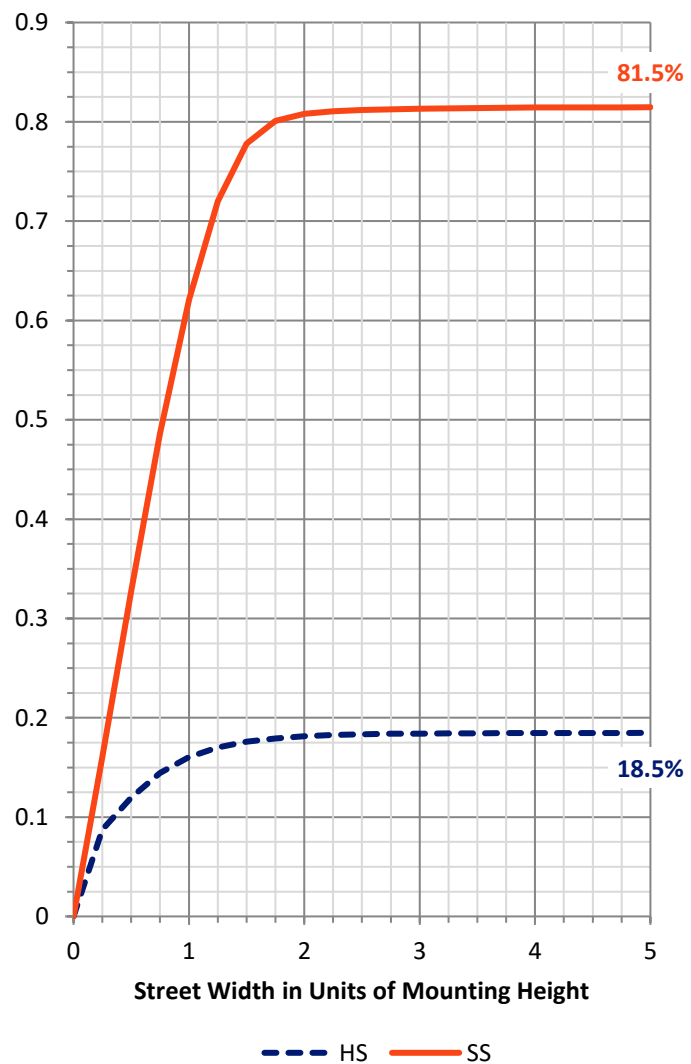
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7056.4	0.0	7056.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30934.6	0.0	30934.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	37991.0	0.0	37991.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.0	2.3
10°-20°	2305.0	6.1
20°-30°	4040.2	10.6
30°-40°	6661.8	17.5
40°-50°	9693.8	25.5
50°-60°	10984.1	28.9
60°-70°	3140.6	8.3
70°-80°	243.8	0.6
80°-90°	50.7	0.1
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°	37991.0	100.0
0°-180°	37991.0	100.0

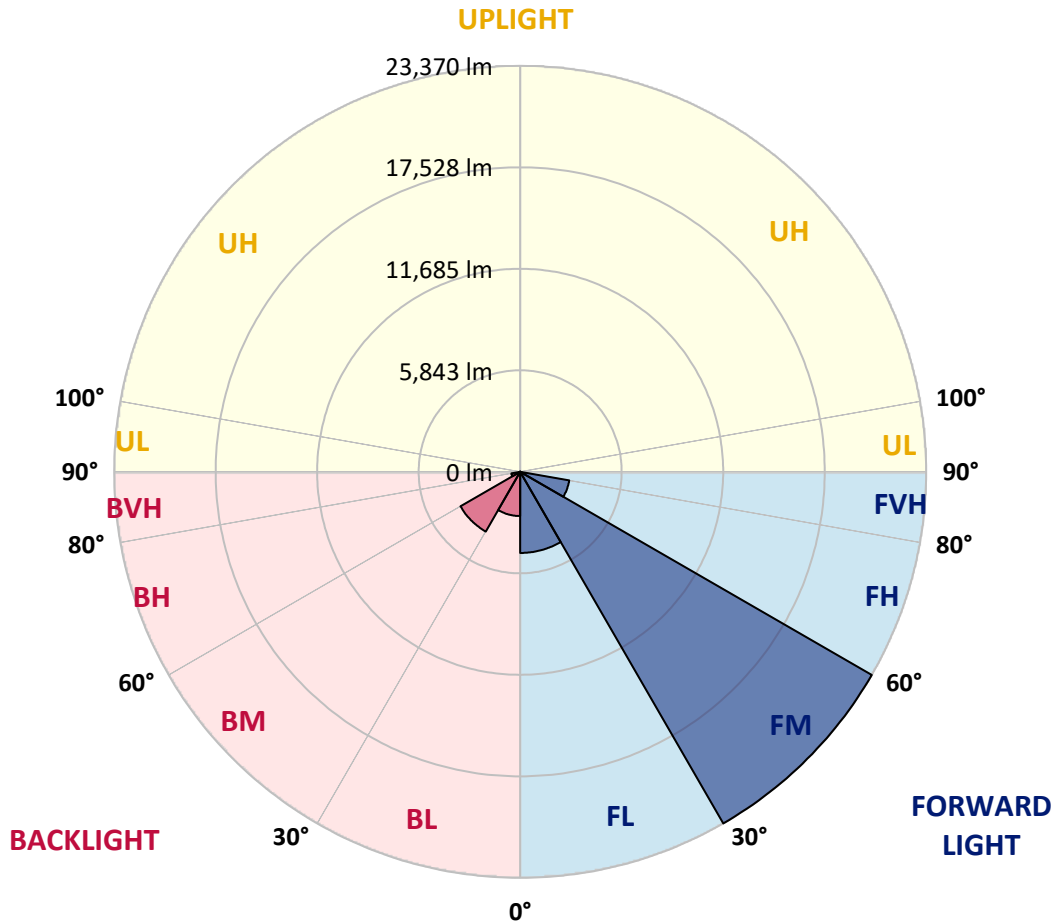


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4670.2	12.3			
FM (30°-60°)	23370.4	61.5			
FH (60°-80°)	2869.3	7.6			G2/5000
FVH (80°-90°)	24.7	0.1			G1/100
BL (0°-30°)	2546.0	6.7	B4/5000		
BM (30°-60°)	3969.3	10.4	B3/5000		
BH (60°-80°)	515.1	1.4	B2/1000		G2/1000
BVH (80°-90°)	26.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5
2.5°	9183.4	9271.7	9285.2	9393.9	9387.1	9570.5	9624.9	9631.7	9753.9	9692.8	9849.0
5°	8925.2	8877.7	8857.3	9047.5	9101.9	9264.9	9400.7	9482.2	9733.5	9821.8	9984.9
7.5°	8694.3	8694.3	8707.9	8877.7	8857.3	9067.9	9210.5	9461.8	9828.6	9903.4	10100.3
10°	8470.2	8388.6	8490.5	8667.1	8816.6	8911.7	9210.5	9448.3	9876.2	10093.5	10365.2
12.5°	8354.7	8395.4	8409.0	8538.1	8701.1	8986.4	9149.4	9543.4	10215.8	10344.9	10636.9
15°	9081.5	9000.0	8803.0	8687.5	8823.4	8959.2	9366.8	9767.5	10392.4	10575.8	10901.8
17.5°	9923.7	9855.8	9692.8	9380.3	9074.7	9326.0	9645.2	10012.0	10582.6	10854.3	11336.6
20°	11024.1	10915.4	10752.4	10141.1	9876.2	9604.5	9944.1	10378.8	10895.1	11139.6	11635.4
22.5°	12335.0	12335.0	11968.3	11227.9	10677.7	10419.6	10562.2	10813.5	11241.5	11574.3	12063.3
25°	13700.3	13659.6	13326.7	12559.2	11628.6	11323.0	11486.0	11662.6	11778.1	11961.5	12287.5
27.5°	15262.6	15024.8	14603.7	13754.7	12932.8	12341.8	12518.4	12362.2	12219.6	12314.7	12783.3
30°	16322.2	16471.6	15935.0	15119.9	14345.6	13686.7	13720.7	13584.9	12932.8	13068.6	13347.1
32.5°	17422.6	17517.7	17218.8	16770.5	15996.2	15228.6	14950.1	14834.7	14345.6	14406.7	14135.0
35°	18339.5	18522.9	18258.0	18061.1	17836.9	17218.8	16451.3	16824.8	16036.9	15887.5	15181.1
37.5°	19181.8	19127.5	19439.9	19236.2	19188.6	18753.9	17911.6	17986.3	17456.5	17422.6	16607.5
40°	19935.8	19949.4	20377.3	20472.4	20282.2	19507.8	18285.2	18876.2	19304.1	19344.8	18298.8
42.5°	20560.7	20744.1	21110.9	21878.4	21593.1	20302.6	18672.4	19317.7	20907.1	21158.4	19901.8
45°	21104.1	21477.7	21932.7	22618.8	22455.8	21430.1	19636.9	20227.8	22618.8	23277.6	21409.7
47.5°	21138.0	21627.1	22122.9	23141.8	23345.6	22034.6	20635.4	21667.8	23977.3	24690.5	22510.1
50°	21002.2	21260.3	22252.0	23359.2	23821.0	23019.5	22034.6	22876.9	25295.0	25743.3	23067.1
52.5°	19392.4	19589.4	21579.5	23562.9	24676.9	24133.5	23889.0	24561.4	26639.9	26972.7	23590.1
55°	16166.0	16132.0	18869.4	22537.3	25070.8	25784.0	25634.6	25872.4	28195.4	28494.2	23719.2
57.5°	11058.1	11676.2	14039.9	18767.5	22659.5	25396.9	25553.1	25159.1	26381.8	26497.3	20676.1
60°	5963.7	6221.9	8123.7	12525.2	17252.8	20696.5	21104.1	20390.9	20295.8	19969.7	14759.9
62.5°	2370.6	2499.6	3579.6	6201.5	9400.7	12579.6	13455.8	13163.7	12538.8	11683.0	7641.5
65°	1127.5	1209.1	1779.6	2900.4	4170.5	5243.8	6120.0	6391.7	4713.9	4245.3	2520.0
67.5°	767.5	828.7	1297.4	1657.4	1487.5	1555.5	2024.1	1881.5	1107.2	944.1	699.6
70°	584.1	624.9	1039.2	1127.5	665.7	468.7	523.0	489.1	455.1	461.9	455.1
72.5°	414.3	448.3	760.8	665.7	292.1	217.4	278.5	332.8	332.8	332.8	326.0
75°	251.3	285.3	441.5	258.1	115.5	115.5	176.6	224.2	237.7	244.5	230.9
77.5°	129.1	163.0	149.4	74.7	74.7	88.3	129.1	156.2	169.8	169.8	163.0
80°	27.2	27.2	27.2	40.8	74.7	95.1	129.1	142.6	163.0	163.0	149.4
82.5°	0.0	6.8	20.4	40.8	67.9	88.3	122.3	142.6	163.0	169.8	156.2
85°	0.0	6.8	13.6	27.2	47.5	54.3	47.5	40.8	40.8	40.8	40.8
87.5°	0.0	0.0	6.8	6.8	6.8	13.6	13.6	13.6	13.6	13.6	13.6
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°	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5	9767.5
2.5°	9862.6	9883.0	9849.0	9842.2	9815.1	9896.6	9699.6	9652.0	9774.3	9658.8	9686.0
5°	9991.7	10039.2	9978.1	9876.2	9726.8	9495.8	9298.8	9040.7	8918.5	8830.2	8816.6
7.5°	10086.8	10120.7	10059.6	9733.5	9285.2	8701.1	8266.4	7947.1	7695.8	7621.1	7498.8
10°	10473.9	10480.7	10175.1	9455.1	8578.8	7811.3	7145.6	6656.6	6405.3	6249.0	6181.1
12.5°	10732.0	10718.4	10100.3	8904.9	7736.6	6717.7	5957.0	5366.0	5135.1	5060.4	5012.8
15°	11058.1	10983.4	9923.7	8341.1	6649.8	5549.4	4863.4	4455.8	4435.5	4387.9	4435.5
17.5°	11316.2	11105.6	9665.6	7315.4	5610.5	4571.3	4123.0	4150.2	4204.5	4252.1	4258.9
20°	11737.3	11302.6	9074.7	6418.8	4646.0	3919.2	3912.4	4034.7	4170.5	4224.9	4279.2
22.5°	12056.6	11384.1	8443.0	5461.1	3858.1	3654.3	3769.8	3953.2	4055.1	4109.4	4190.9
25°	12172.0	11160.0	7600.7	4503.4	3477.7	3532.1	3708.7	3830.9	3960.0	4021.1	3987.2
27.5°	12287.5	11044.5	6595.4	3708.7	3273.9	3450.6	3600.0	3722.2	3763.0	3844.5	3898.9
30°	12566.0	10643.7	5692.1	3206.0	3172.1	3396.2	3504.9	3545.6	3654.3	3701.9	3701.9
32.5°	12790.1	10487.5	4734.3	2968.3	3158.5	3423.4	3437.0	3437.0	3450.6	3416.6	3403.0
35°	13252.0	9950.9	3878.5	2825.6	3151.7	3430.2	3464.1	3348.7	3036.2	2914.0	2880.0
37.5°	13822.6	9604.5	3246.8	2791.7	3199.2	3511.7	3566.0	3131.3	2723.8	2526.8	2492.8
40°	14515.4	9360.0	2832.4	2778.1	3307.9	3701.9	3538.9	2961.5	2431.7	2146.4	2132.8
42.5°	15323.7	9135.8	2554.0	2771.3	3443.8	3898.9	3511.7	2818.9	2132.8	1942.6	1969.8
45°	15969.0	9013.5	2363.8	2723.8	3491.3	4014.3	3532.1	2567.5	2010.6	1888.3	1901.9
47.5°	16471.6	8755.4	2207.5	2642.3	3484.5	4055.1	3348.7	2465.7	1949.4	1983.4	2017.4
50°	16485.2	8409.0	2010.6	2465.7	3382.6	3980.4	3138.1	2370.6	1935.8	2078.5	2146.4
52.5°	16301.8	7920.0	1800.0	2214.3	3144.9	3722.2	2947.9	2329.8	1874.7	1861.1	1942.6
55°	15649.7	7003.0	1446.8	1793.2	2655.8	3070.2	2778.1	2255.1	1691.3	1535.1	1548.7
57.5°	12647.5	5019.6	1066.4	1283.8	1881.5	2248.3	2506.4	2221.1	1521.5	1304.1	1310.9
60°	7831.7	2846.0	781.1	876.2	1161.5	1365.3	2030.9	2064.9	1358.5	1100.4	1086.8
62.5°	4021.1	1406.0	604.5	618.1	713.2	801.5	1392.4	1732.1	1229.4	1046.0	1046.0
65°	1344.9	692.8	529.8	475.5	475.5	495.8	842.3	1202.3	1039.2	876.2	876.2
67.5°	577.4	516.2	461.9	414.3	380.4	360.0	475.5	699.6	774.3	665.7	638.5
70°	448.3	434.7	400.8	346.4	298.9	271.7	278.5	360.0	441.5	427.9	414.3
72.5°	332.8	332.8	319.2	271.7	230.9	197.0	183.4	190.2	210.6	217.4	224.2
75°	230.9	237.7	237.7	210.6	169.8	142.6	122.3	101.9	81.5	67.9	61.1
77.5°	156.2	163.0	176.6	156.2	129.1	95.1	74.7	54.3	34.0	13.6	13.6
80°	135.8	156.2	169.8	156.2	135.8	101.9	74.7	40.8	20.4	0.0	0.0
82.5°	142.6	156.2	176.6	149.4	129.1	95.1	74.7	47.5	20.4	6.8	0.0
85°	34.0	34.0	40.8	47.5	61.1	67.9	54.3	34.0	20.4	6.8	0.0
87.5°	13.6	13.6	13.6	13.6	13.6	6.8	6.8	6.8	6.8	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)