

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: P529413

Luminaire Tested: **GALN-SA4C-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16608 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

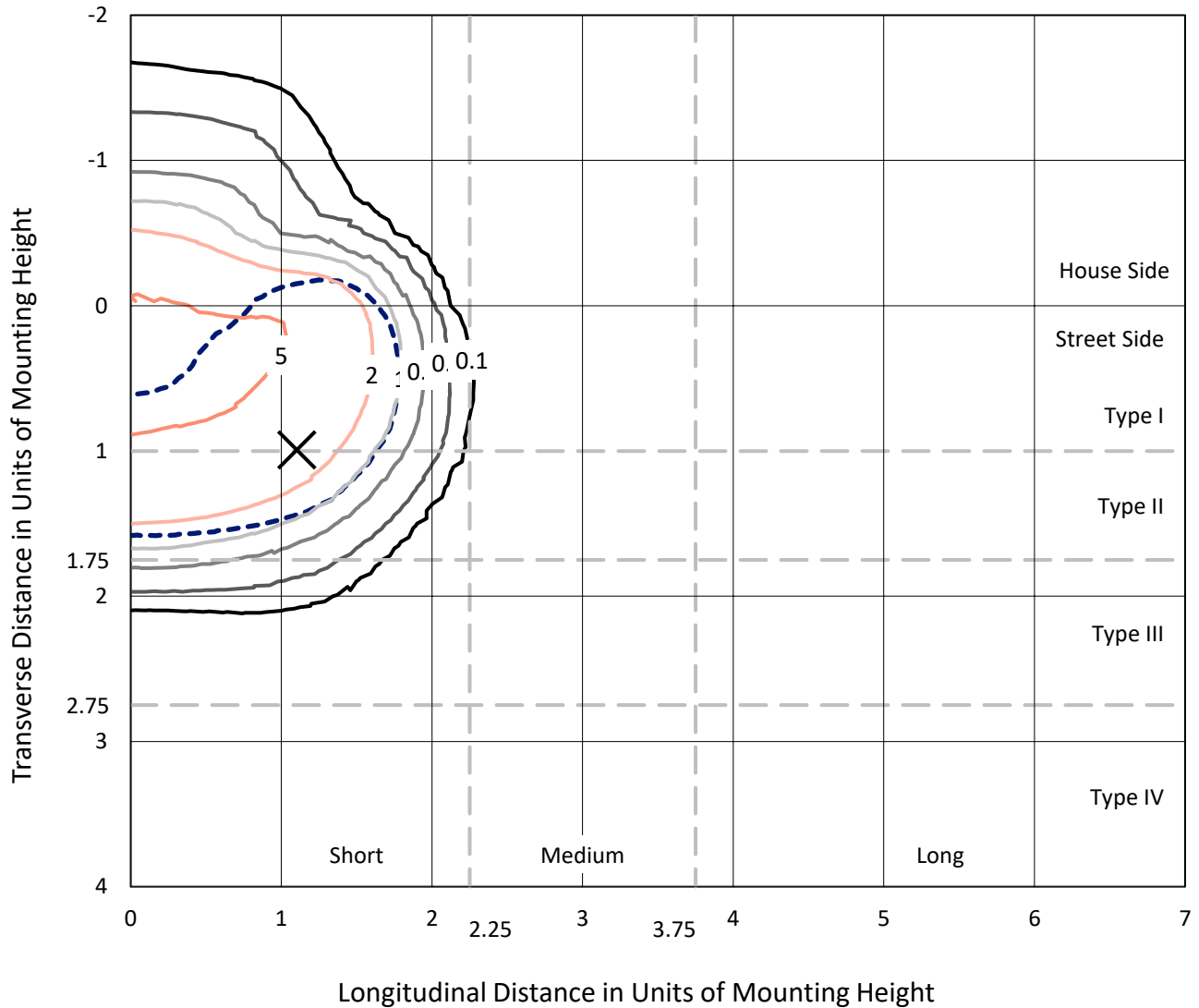
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

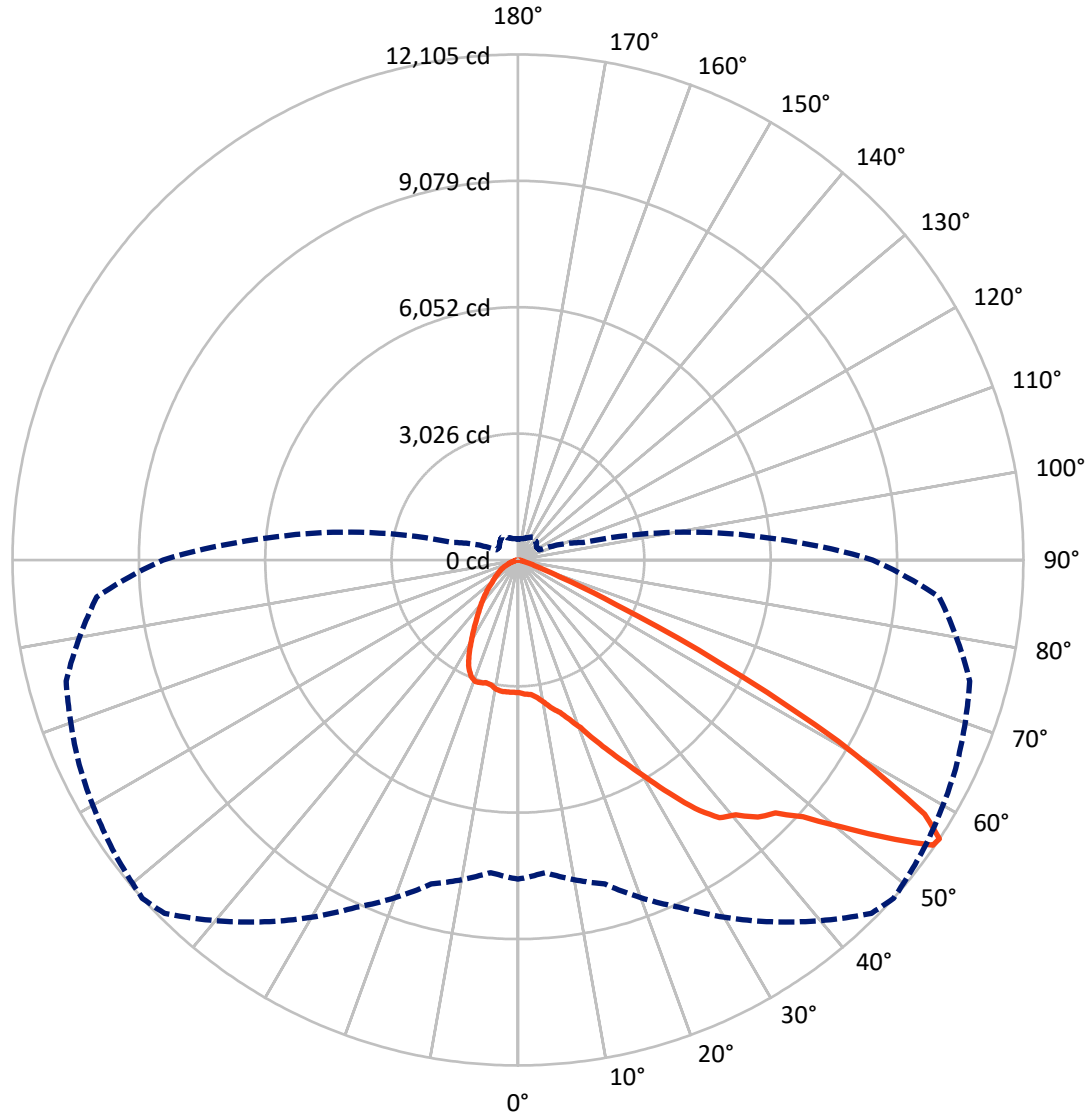
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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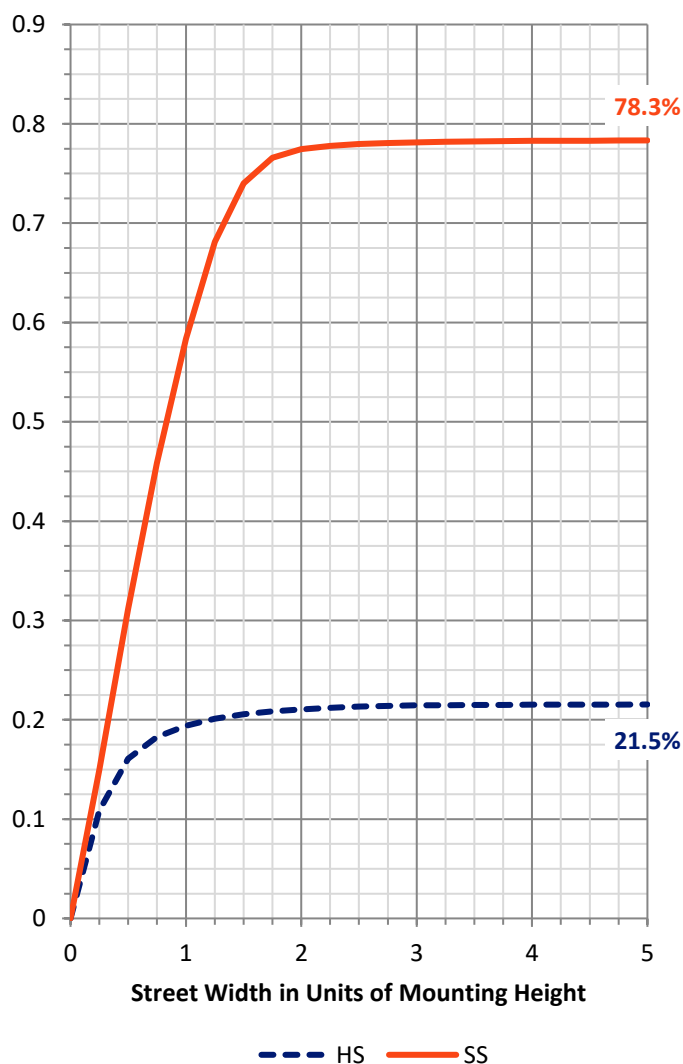
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3611.9	0.0	3611.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12996.1	0.0	12996.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	16608.0	0.0	16608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	1.9
10°-20°	987.5	5.9
20°-30°	1791.1	10.8
30°-40°	2813.5	16.9
40°-50°	4104.4	24.7
50°-60°	4945.1	29.8
60°-70°	1447.9	8.7
70°-80°	183.7	1.1
80°-90°	25.8	0.2
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°	16608.0	100.0
0°-180°	16608.0	100.0

Coefficient of Utilization

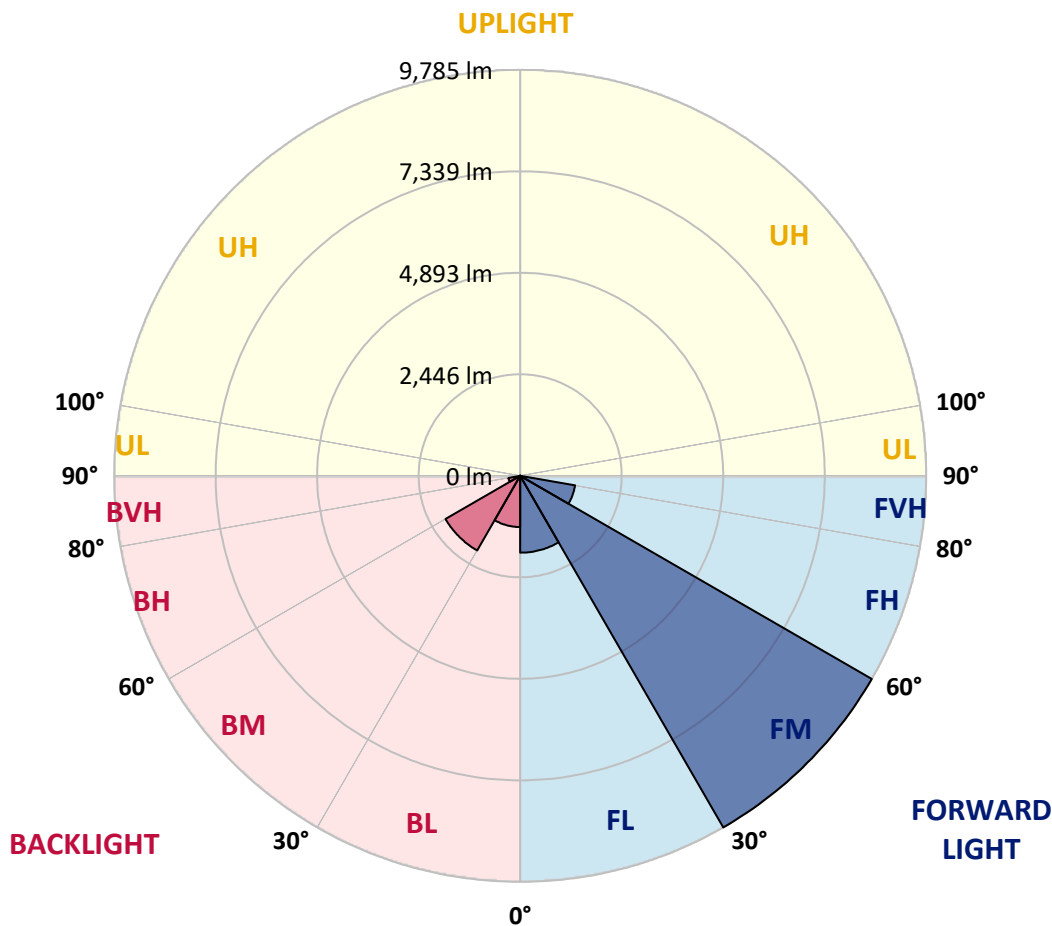


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1853.1	11.2			
FM (30°-60°)	9785.5	58.9			
FH (60°-80°)	1344.5	8.1			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	1234.5	7.4	B3/2500		
BM (30°-60°)	2077.6	12.5	B2/2500		
BH (60°-80°)	287.0	1.7	B1/500		G1/500
BVH (80°-90°)	12.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1
2.5°	3229.6	3214.5	3214.5	3190.3	3217.5	3205.4	3214.5	3184.2	3214.5	3169.1	3205.4
5°	3244.7	3247.7	3235.6	3250.8	3250.8	3268.9	3238.7	3265.9	3281.0	3247.7	3232.6
7.5°	3323.3	3329.4	3326.4	3314.3	3338.5	3335.4	3332.4	3311.2	3317.3	3305.2	3287.0
10°	3477.6	3474.5	3489.7	3459.4	3441.3	3462.4	3468.5	3435.2	3411.0	3402.0	3344.5
12.5°	3701.3	3665.0	3643.9	3613.6	3622.7	3592.5	3646.9	3589.4	3577.3	3522.9	3465.5
15°	3882.8	3876.7	3879.7	3831.4	3776.9	3789.0	3789.0	3758.8	3740.6	3674.1	3592.5
17.5°	4254.7	4127.7	4154.9	4094.4	4049.1	4046.1	4018.8	4024.9	3976.5	3837.4	3713.4
20°	4545.0	4490.6	4448.2	4345.4	4275.9	4297.0	4285.0	4254.7	4239.6	4058.2	3882.8
22.5°	4805.1	4823.2	4753.7	4726.5	4629.7	4638.8	4662.9	4635.7	4520.8	4333.3	4073.3
25°	5171.0	5149.8	5056.1	5022.8	4932.1	4965.3	5059.1	5037.9	4965.3	4626.7	4221.4
27.5°	5603.4	5530.8	5549.0	5397.8	5310.1	5403.8	5515.7	5621.5	5415.9	4971.4	4396.8
30°	5908.8	5833.2	5827.2	5821.1	5800.0	5908.8	6038.9	6135.6	5969.3	5316.1	4687.1
32.5°	6060.0	6078.2	6129.6	6111.4	6295.9	6519.7	6655.7	6794.8	6586.2	5878.6	5071.2
35°	6462.2	6347.3	6462.2	6474.3	6664.8	7139.6	7311.9	7644.6	7593.2	6673.9	5539.9
37.5°	6698.1	6689.0	6704.1	6819.0	7003.5	7590.1	7835.1	8092.1	7995.4	7151.7	6123.5
40°	7088.2	7112.4	7109.3	7197.0	7399.6	7928.8	8028.6	8237.3	8246.3	7813.9	6982.3
42.5°	7714.1	7617.4	7553.9	7644.6	7928.8	8222.2	8421.7	8379.4	8678.8	8618.3	8086.1
45°	8276.6	8334.0	8240.3	8391.5	8494.3	8651.6	8645.5	8736.2	9117.2	9404.5	8917.7
47.5°	8802.8	8839.0	8884.4	8987.2	9211.0	9235.2	9183.8	9144.5	9670.6	9967.0	9561.8
50°	9117.2	9150.5	9362.2	9546.6	9964.0	10018.4	10048.6	9948.8	10305.7	10338.9	10169.6
52.5°	9032.6	9068.9	9365.2	9973.0	10638.3	11137.2	11046.5	10877.2	10856.0	10986.1	10732.0
55°	8282.6	8249.4	8657.6	9604.1	10850.0	12047.5	12059.6	11881.1	11539.4	11451.7	10647.4
56°	7644.6	7514.5	8034.7	9177.7	10577.8	11968.8	12104.9	11914.4	11593.9	11200.8	10124.2
57.5°	6262.6	6386.6	6903.7	7850.2	9637.4	11403.4	11482.0	11436.6	11194.7	10535.5	8908.6
60°	3453.4	3671.1	4127.7	5285.9	6861.4	8751.3	8814.8	9183.8	9229.1	8067.9	6129.6
62.5°	1466.6	1442.4	1917.2	2769.9	3907.0	5282.9	5400.8	5778.8	5848.3	4650.9	3075.4
65°	595.7	629.0	867.9	1394.0	2065.4	2407.1	2573.4	2697.4	2927.2	1920.2	1134.0
67.5°	393.1	390.1	511.0	795.3	1112.8	1073.5	1073.5	1134.0	1049.3	783.2	489.9
70°	281.2	290.3	365.9	550.4	692.5	514.1	492.9	471.7	535.2	517.1	396.1
72.5°	184.5	196.6	244.9	329.6	359.9	281.2	281.2	338.7	441.5	417.3	323.6
75°	121.0	124.0	151.2	190.5	178.4	145.2	160.3	226.8	320.5	308.4	229.8
77.5°	81.6	84.7	102.8	124.0	99.8	81.6	87.7	114.9	157.2	157.2	121.0
80°	30.2	33.3	42.3	39.3	45.4	57.5	63.5	78.6	93.7	93.7	81.6
82.5°	0.0	3.0	9.1	21.2	33.3	45.4	51.4	60.5	69.6	78.6	75.6
85°	0.0	3.0	9.1	15.1	24.2	27.2	30.2	21.2	18.1	18.1	15.1
87.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	3.0	3.0
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°	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1	3172.1
2.5°	3172.1	3169.1	3169.1	3160.0	3178.2	3169.1	3175.2	3172.1	3132.8	3163.1	3141.9
5°	3205.4	3226.6	3193.3	3187.3	3163.1	3172.1	3172.1	3141.9	3169.1	3166.1	3160.0
7.5°	3290.1	3253.8	3217.5	3181.2	3175.2	3166.1	3132.8	3120.7	3141.9	3117.7	3154.0
10°	3326.4	3332.4	3278.0	3229.6	3184.2	3120.7	3075.4	3048.2	3014.9	3051.2	3072.3
12.5°	3492.7	3432.2	3338.5	3262.9	3108.6	3045.1	2999.8	2987.7	3045.1	3057.2	3036.1
15°	3550.1	3541.1	3420.1	3250.8	3090.5	3014.9	3024.0	2999.8	3005.8	2975.6	2981.6
17.5°	3668.1	3565.3	3423.1	3211.4	3087.5	3069.3	3014.9	2918.1	2863.7	2839.5	2860.7
20°	3798.1	3698.3	3492.7	3226.6	3114.7	3066.3	2887.9	2769.9	2658.1	2597.6	2600.6
22.5°	3913.0	3789.0	3462.4	3232.6	3138.9	2939.3	2724.6	2491.7	2352.6	2258.9	2261.9
25°	4052.1	3876.7	3474.5	3244.7	3075.4	2736.7	2428.2	2201.4	2035.1	1971.6	1992.8
27.5°	4130.7	3931.1	3541.1	3271.9	2909.1	2449.4	2116.8	1905.1	1808.3	1778.1	1775.1
30°	4366.6	4052.1	3622.7	3217.5	2630.8	2141.0	1832.5	1702.5	1608.7	1581.5	1587.6
32.5°	4717.4	4272.9	3728.5	3075.4	2346.6	1865.8	1648.1	1551.3	1463.6	1412.2	1406.1
35°	5010.7	4650.9	3840.4	2854.6	2017.0	1654.1	1518.0	1397.1	1264.0	1206.6	1191.4
37.5°	5570.1	5077.2	3816.2	2522.0	1702.5	1496.9	1378.9	1230.8	1115.8	1037.2	1028.1
40°	6314.0	5576.2	3698.3	2116.8	1469.6	1357.8	1230.8	1088.6	946.5	880.0	873.9
42.5°	7218.2	6187.0	3483.6	1705.5	1236.8	1218.7	1103.7	940.5	813.4	765.1	768.1
45°	7953.0	6710.2	3265.9	1369.9	1064.4	1082.6	982.8	828.6	740.9	701.6	701.6
47.5°	8606.2	7064.0	3030.0	1131.0	904.2	946.5	858.8	768.1	692.5	662.2	656.2
50°	9235.2	7423.8	2794.1	916.3	771.1	813.4	804.4	731.8	671.3	635.0	638.1
52.5°	9628.3	7481.3	2494.8	749.9	674.3	722.7	753.0	686.4	619.9	598.7	592.7
55°	9147.5	6740.4	1935.3	616.9	571.5	635.0	692.5	616.9	565.5	529.2	526.2
56°	8500.4	6026.8	1617.8	568.5	541.3	610.8	671.3	589.7	532.2	511.0	495.9
57.5°	7197.0	4932.1	1194.5	505.0	502.0	568.5	638.1	562.5	495.9	477.8	477.8
60°	4487.6	2776.0	722.7	423.4	435.5	505.0	574.6	502.0	441.5	441.5	450.6
62.5°	2044.2	1155.2	438.5	359.9	375.0	435.5	511.0	453.6	420.3	453.6	459.6
65°	695.5	499.0	317.5	287.3	296.3	359.9	438.5	459.6	456.6	477.8	489.9
67.5°	390.1	320.5	266.1	238.9	232.8	266.1	359.9	459.6	441.5	432.4	438.5
70°	329.6	272.2	235.9	211.7	202.6	214.7	278.2	347.8	311.5	302.4	296.3
72.5°	266.1	226.8	205.6	190.5	163.3	139.1	127.0	133.1	148.2	157.2	172.4
75°	187.5	172.4	172.4	154.2	117.9	87.7	69.6	57.5	39.3	27.2	30.2
77.5°	105.8	105.8	108.9	93.7	75.6	57.5	42.3	30.2	15.1	6.0	3.0
80°	72.6	78.6	84.7	75.6	63.5	51.4	36.3	21.2	9.1	0.0	0.0
82.5°	72.6	81.6	87.7	75.6	63.5	48.4	36.3	21.2	9.1	3.0	0.0
85°	15.1	18.1	21.2	24.2	36.3	36.3	27.2	18.1	9.1	3.0	0.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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)