

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: P531051

Luminaire Tested: **GALN-SA6B-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531051
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-SA6B-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA 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: 20150 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

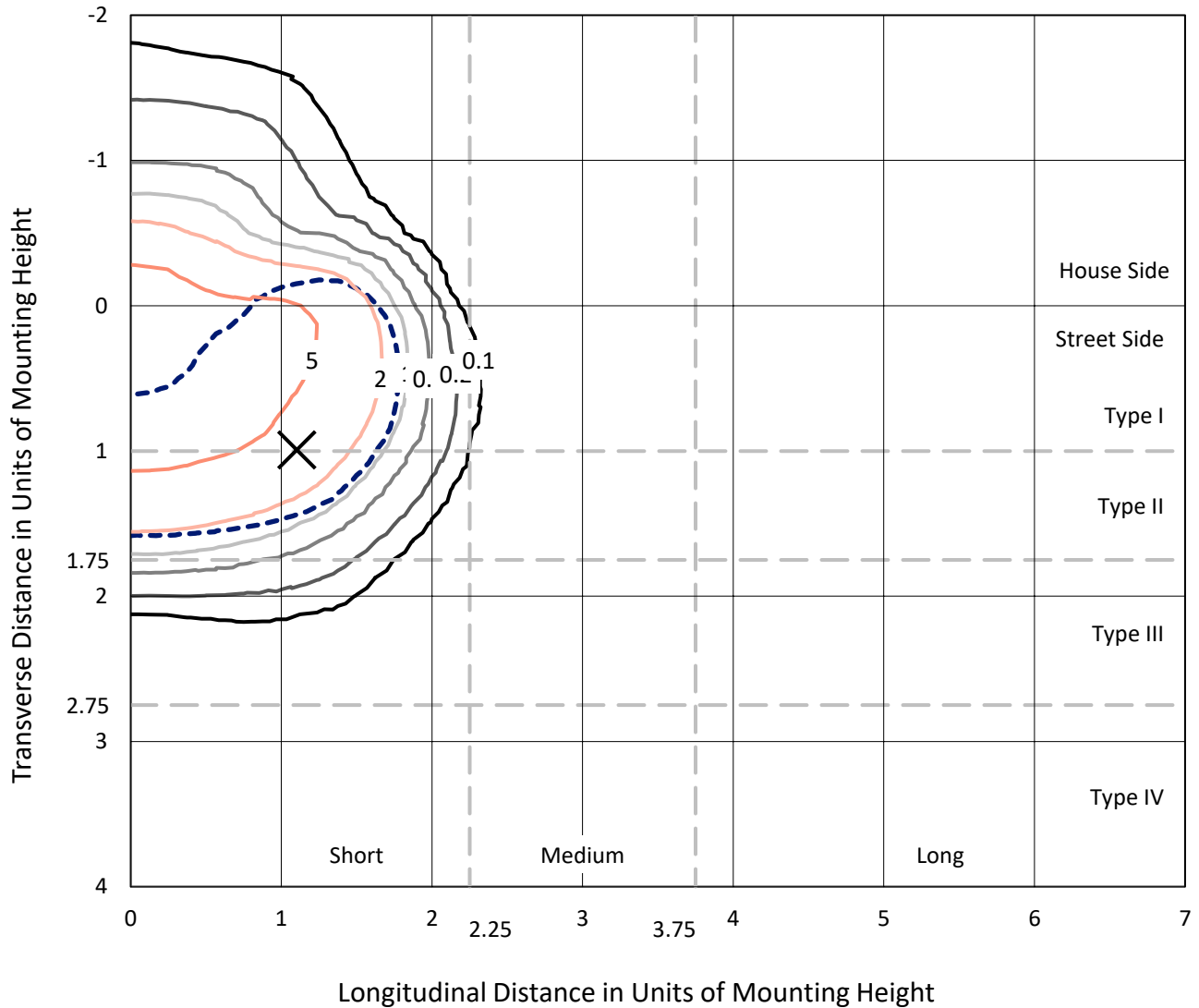
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

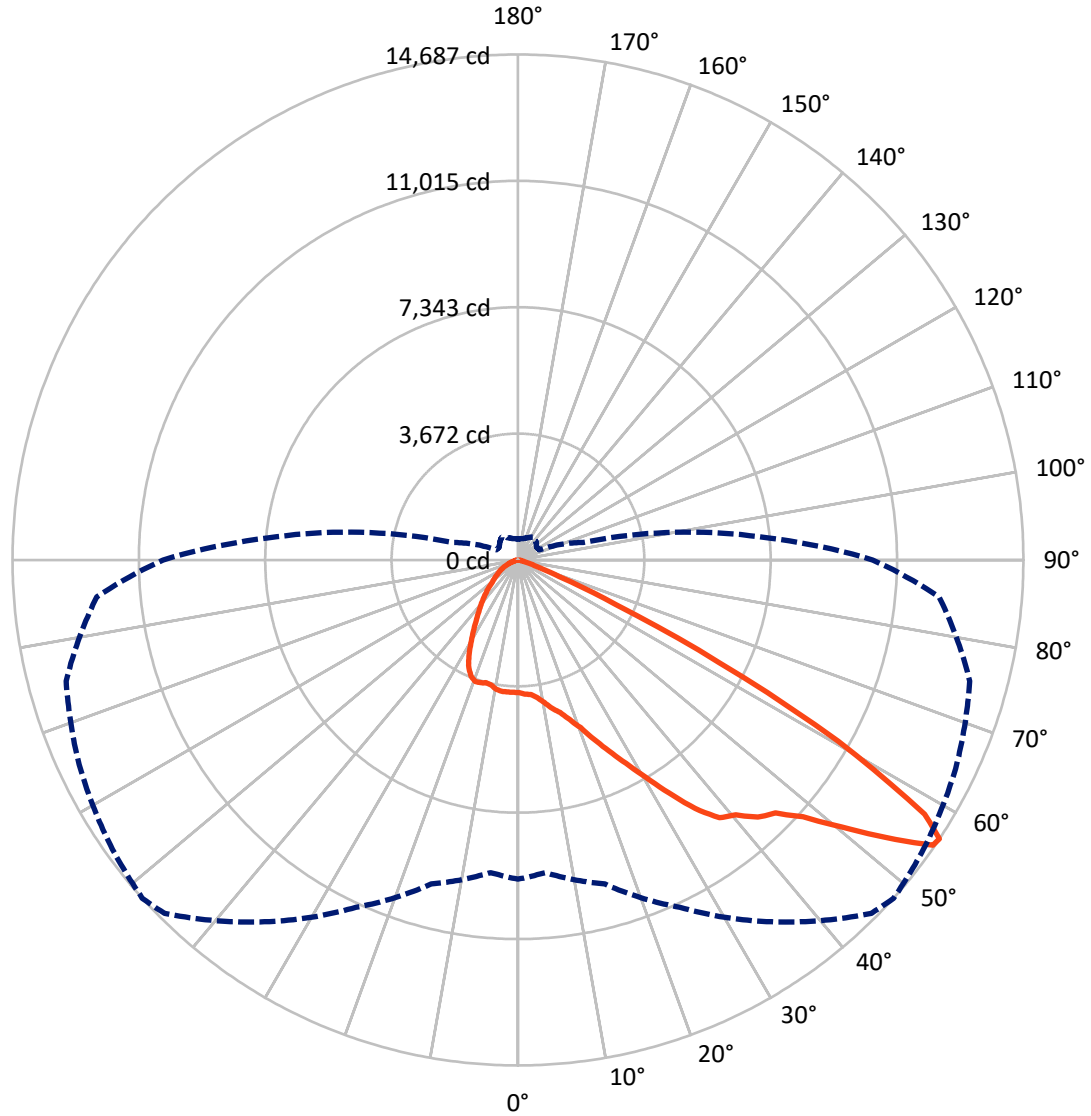
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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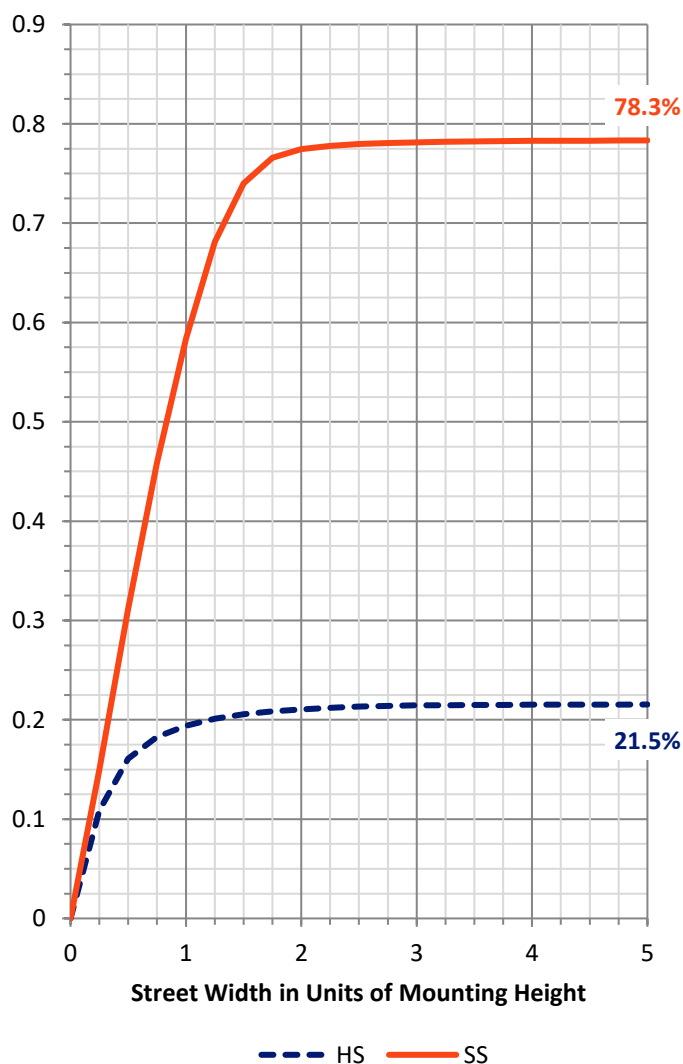
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4382.2	0.0	4382.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15767.8	0.0	15767.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	20150.0	0.0	20150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.9	1.9
10°-20°	1198.1	5.9
20°-30°	2173.2	10.8
30°-40°	3413.6	16.9
40°-50°	4979.8	24.7
50°-60°	5999.7	29.8
60°-70°	1756.7	8.7
70°-80°	222.8	1.1
80°-90°	31.3	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°	20150.0	100.0
0°-180°	20150.0	100.0

Coefficient of Utilization

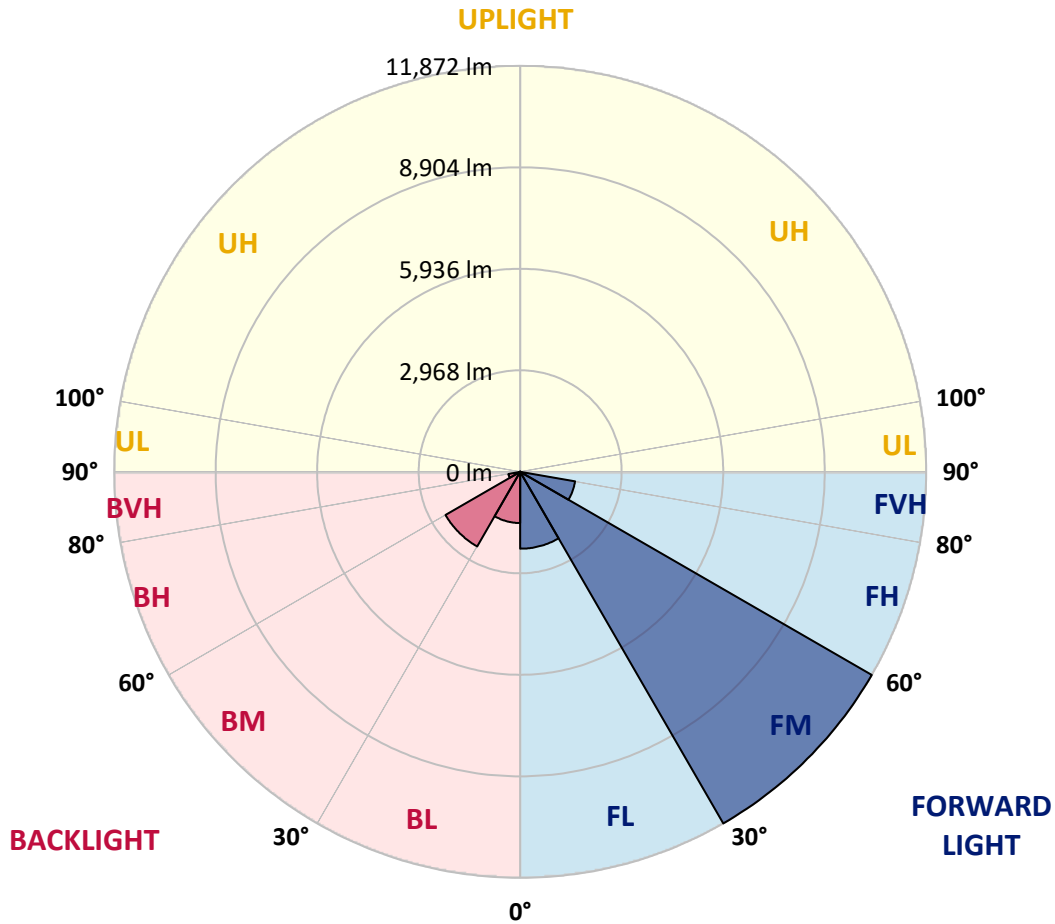


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2248.3	11.2			
FM (30°-60°)	11872.4	58.9			
FH (60°-80°)	1631.3	8.1			G1/1800
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1497.8	7.4	B3/2500		
BM (30°-60°)	2520.6	12.5	B3/5000		
BH (60°-80°)	348.2	1.7	B1/500		G1/500
BVH (80°-90°)	15.6	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°	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7
2.5°	3918.4	3900.0	3900.0	3870.7	3903.7	3889.0	3900.0	3863.3	3900.0	3845.0	3889.0
5°	3936.7	3940.4	3925.7	3944.0	3944.0	3966.1	3929.4	3962.4	3980.7	3940.4	3922.0
7.5°	4032.1	4039.4	4035.8	4021.1	4050.4	4046.8	4043.1	4017.4	4024.8	4010.1	3988.1
10°	4219.2	4215.5	4233.9	4197.2	4175.2	4200.9	4208.2	4167.9	4138.5	4127.5	4057.8
12.5°	4490.7	4446.7	4421.0	4384.3	4395.3	4358.6	4424.7	4355.0	4340.3	4274.2	4204.5
15°	4710.8	4703.5	4707.2	4648.5	4582.4	4597.1	4597.1	4560.4	4538.4	4457.7	4358.6
17.5°	5162.1	5008.0	5041.0	4967.7	4912.6	4909.0	4875.9	4883.3	4824.6	4655.8	4505.4
20°	5514.3	5448.3	5396.9	5272.2	5187.8	5213.5	5198.8	5162.1	5143.8	4923.6	4710.8
22.5°	5829.9	5851.9	5767.5	5734.5	5617.1	5628.1	5657.4	5624.4	5485.0	5257.5	4942.0
25°	6273.8	6248.1	6134.4	6094.0	5983.9	6024.3	6138.0	6112.4	6024.3	5613.4	5121.8
27.5°	6798.4	6710.4	6732.4	6549.0	6442.6	6556.3	6692.0	6820.5	6571.0	6031.6	5334.6
30°	7169.0	7077.3	7069.9	7062.6	7036.9	7169.0	7326.8	7444.2	7242.4	6449.9	5686.8
32.5°	7352.4	7374.5	7436.8	7414.8	7638.6	7910.1	8075.2	8244.0	7990.8	7132.3	6152.7
35°	7840.4	7701.0	7840.4	7855.1	8086.2	8662.2	8871.4	9274.9	9212.6	8097.2	6721.4
37.5°	8126.6	8115.6	8133.9	8273.3	8497.1	9208.9	9506.1	9817.9	9700.5	8676.9	7429.5
40°	8599.9	8629.2	8625.5	8731.9	8977.8	9619.8	9740.9	9994.0	10005.0	9480.4	8471.5
42.5°	9359.3	9241.9	9164.9	9274.9	9619.8	9975.7	10217.8	10166.5	10529.7	10456.3	9810.6
45°	10041.7	10111.4	9997.7	10181.2	10305.9	10496.7	10489.3	10599.4	11061.7	11410.2	10819.5
47.5°	10680.1	10724.1	10779.2	10903.9	11175.4	11204.8	11142.4	11094.7	11733.1	12092.6	11601.0
50°	11061.7	11102.0	11358.9	11582.7	12089.0	12155.0	12191.7	12070.6	12503.6	12543.9	12338.5
52.5°	10959.0	11003.0	11362.5	12100.0	12907.1	13512.5	13402.4	13197.0	13171.3	13329.1	13020.9
55°	10049.1	10008.7	10504.0	11652.4	13164.0	14616.8	14631.5	14415.0	14000.5	13894.1	12918.1
56°	9274.9	9117.2	9748.2	11135.1	12833.8	14521.4	14686.5	14455.4	14066.5	13589.5	12283.4
57.5°	7598.3	7748.7	8376.1	9524.4	11692.7	13835.4	13930.8	13875.7	13582.2	12782.4	10808.5
60°	4189.9	4454.0	5008.0	6413.2	8324.7	10617.7	10694.8	11142.4	11197.4	9788.6	7436.8
62.5°	1779.4	1750.1	2326.1	3360.7	4740.2	6409.5	6552.6	7011.2	7095.6	5642.7	3731.3
65°	722.8	763.1	1053.0	1691.4	2505.8	2920.4	3122.2	3272.6	3551.5	2329.7	1375.8
67.5°	477.0	473.3	620.0	964.9	1350.1	1302.5	1302.5	1375.8	1273.1	950.2	594.4
70°	341.2	352.2	443.9	667.7	840.2	623.7	598.0	572.3	649.4	627.4	480.6
72.5°	223.8	238.5	297.2	399.9	436.6	341.2	341.2	410.9	535.7	506.3	392.6
75°	146.8	150.4	183.4	231.1	216.5	176.1	194.5	275.2	388.9	374.2	278.8
77.5°	99.1	102.7	124.7	150.4	121.1	99.1	106.4	139.4	190.8	190.8	146.8
80°	36.7	40.4	51.4	47.7	55.0	69.7	77.0	95.4	113.7	113.7	99.1
82.5°	0.0	3.7	11.0	25.7	40.4	55.0	62.4	73.4	84.4	95.4	91.7
85°	0.0	3.7	11.0	18.3	29.4	33.0	36.7	25.7	22.0	22.0	18.3
87.5°	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	7.3	3.7	3.7
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°	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7
2.5°	3848.7	3845.0	3845.0	3834.0	3856.0	3845.0	3852.3	3848.7	3801.0	3837.7	3812.0
5°	3889.0	3914.7	3874.3	3867.0	3837.7	3848.7	3848.7	3812.0	3845.0	3841.3	3834.0
7.5°	3991.7	3947.7	3903.7	3859.7	3852.3	3841.3	3801.0	3786.3	3812.0	3782.6	3826.6
10°	4035.8	4043.1	3977.1	3918.4	3863.3	3786.3	3731.3	3698.2	3657.9	3701.9	3727.6
12.5°	4237.6	4164.2	4050.4	3958.7	3771.6	3694.6	3639.5	3624.9	3694.6	3709.2	3683.6
15°	4307.3	4296.3	4149.5	3944.0	3749.6	3657.9	3668.9	3639.5	3646.9	3610.2	3617.5
17.5°	4450.4	4325.6	4153.2	3896.4	3745.9	3723.9	3657.9	3540.5	3474.4	3445.1	3470.8
20°	4608.1	4487.0	4237.6	3914.7	3778.9	3720.2	3503.8	3360.7	3224.9	3151.6	3155.2
22.5°	4747.5	4597.1	4200.9	3922.0	3808.3	3566.2	3305.7	3023.2	2854.4	2740.7	2744.3
25°	4916.3	4703.5	4215.5	3936.7	3731.3	3320.3	2946.1	2670.9	2469.2	2392.1	2417.8
27.5°	5011.7	4769.5	4296.3	3969.7	3529.5	2971.8	2568.2	2311.4	2194.0	2157.3	2153.6
30°	5297.9	4916.3	4395.3	3903.7	3191.9	2597.6	2223.3	2065.6	1951.8	1918.8	1926.2
32.5°	5723.5	5184.1	4523.7	3731.3	2847.1	2263.7	1999.5	1882.1	1775.7	1713.4	1706.0
35°	6079.3	5642.7	4659.5	3463.4	2447.1	2006.9	1841.8	1695.0	1533.6	1463.9	1445.5
37.5°	6758.1	6160.1	4630.1	3059.8	2065.6	1816.1	1673.0	1493.2	1353.8	1258.4	1247.4
40°	7660.6	6765.4	4487.0	2568.2	1783.1	1647.3	1493.2	1320.8	1148.4	1067.6	1060.3
42.5°	8757.6	7506.5	4226.6	2069.3	1500.6	1478.6	1339.1	1141.0	986.9	928.2	931.9
45°	9649.2	8141.3	3962.4	1662.0	1291.4	1313.5	1192.4	1005.3	898.9	851.2	851.2
47.5°	10441.6	8570.5	3676.2	1372.2	1097.0	1148.4	1042.0	931.9	840.2	803.5	796.1
50°	11204.8	9007.1	3390.0	1111.7	935.6	986.9	975.9	887.9	814.5	770.5	774.1
52.5°	11681.7	9076.8	3026.8	909.9	818.2	876.9	913.6	832.8	752.1	726.4	719.1
55°	11098.4	8177.9	2348.1	748.5	693.4	770.5	840.2	748.5	686.1	642.1	638.4
56°	10313.2	7312.1	1962.9	689.8	656.7	741.1	814.5	715.4	645.7	620.0	601.7
57.5°	8731.9	5983.9	1449.2	612.7	609.0	689.8	774.1	682.4	601.7	579.7	579.7
60°	5444.6	3368.0	876.9	513.6	528.3	612.7	697.1	609.0	535.7	535.7	546.7
62.5°	2480.2	1401.5	532.0	436.6	454.9	528.3	620.0	550.3	510.0	550.3	557.7
65°	843.8	605.4	385.2	348.5	359.6	436.6	532.0	557.7	554.0	579.7	594.4
67.5°	473.3	388.9	322.9	289.8	282.5	322.9	436.6	557.7	535.7	524.7	532.0
70°	399.9	330.2	286.2	256.8	245.8	260.5	337.5	421.9	377.9	366.9	359.6
72.5°	322.9	275.2	249.5	231.1	198.1	168.8	154.1	161.4	179.8	190.8	209.1
75°	227.5	209.1	209.1	187.1	143.1	106.4	84.4	69.7	47.7	33.0	36.7
77.5°	128.4	128.4	132.1	113.7	91.7	69.7	51.4	36.7	18.3	7.3	3.7
80°	88.1	95.4	102.7	91.7	77.0	62.4	44.0	25.7	11.0	0.0	0.0
82.5°	88.1	99.1	106.4	91.7	77.0	58.7	44.0	25.7	11.0	3.7	0.0
85°	18.3	22.0	25.7	29.4	44.0	44.0	33.0	22.0	11.0	3.7	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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)