

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: P954149

Luminaire Tested: **GALN-SB7C-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50063 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 350.5
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

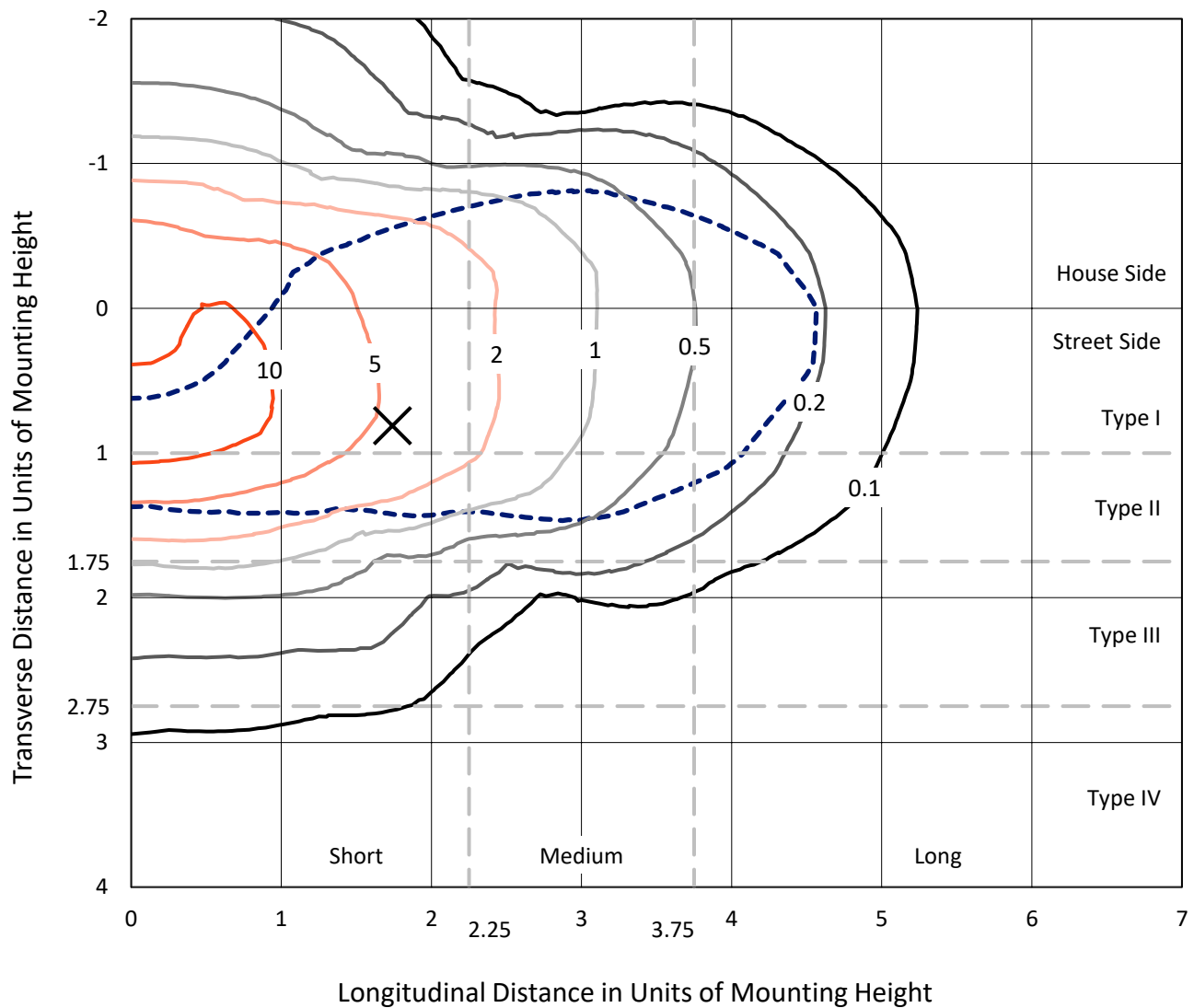


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

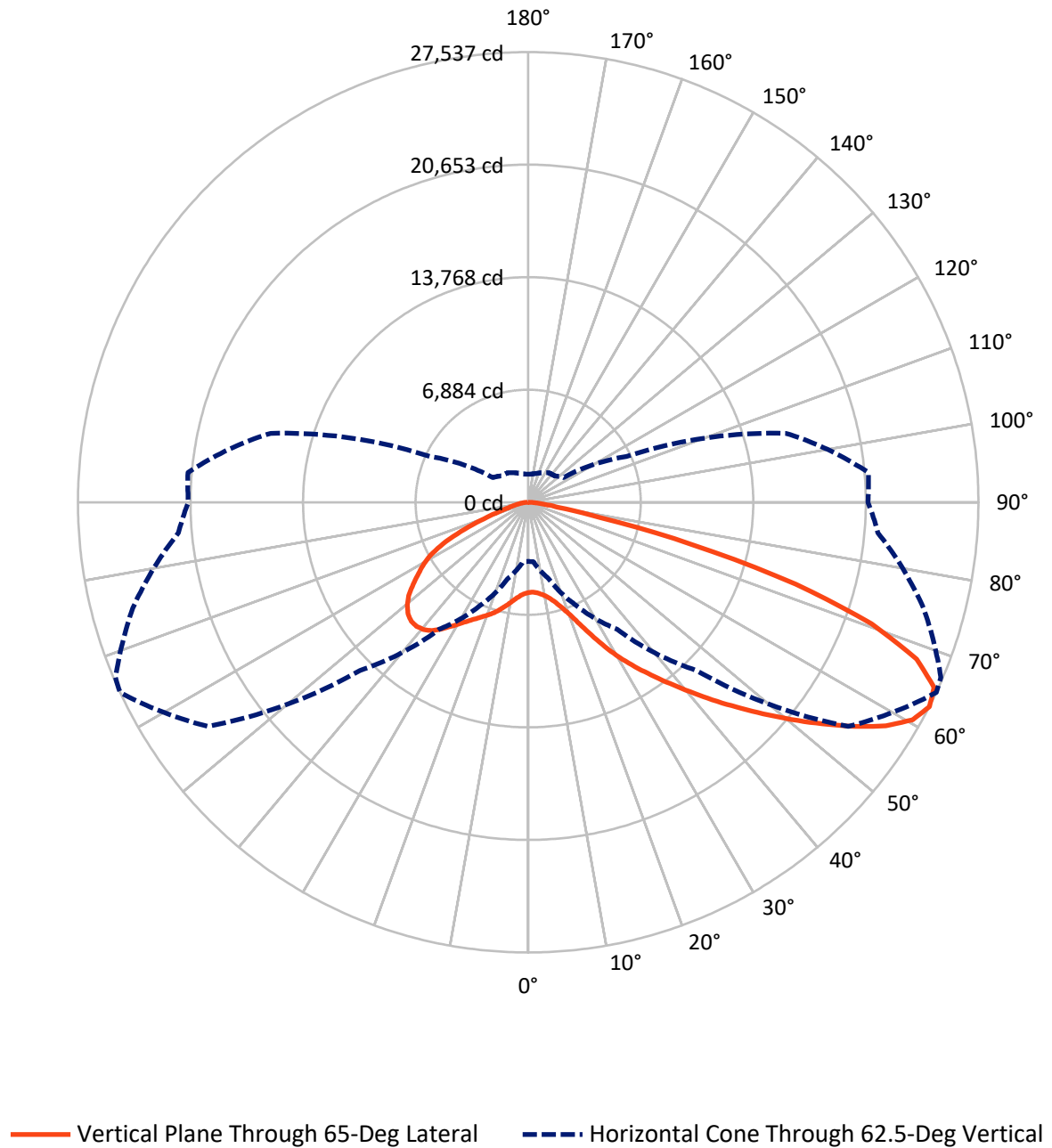


Based on 25 foot mounting height. Maximum calculated value = 14 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15797.7	0.0	15797.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	34265.3	0.0	34265.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	50063.0	0.0	50063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.0	1.1
10°-20°	1865.1	3.7
20°-30°	3781.8	7.6
30°-40°	6544.3	13.1
40°-50°	9903.5	19.8
50°-60°	11611.2	23.2
60°-70°	9734.6	19.4
70°-80°	5374.3	10.7
80°-90°	698.1	1.4
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°	50063.0	100.0
0°-180°	50063.0	100.0

Coefficient of Utilization



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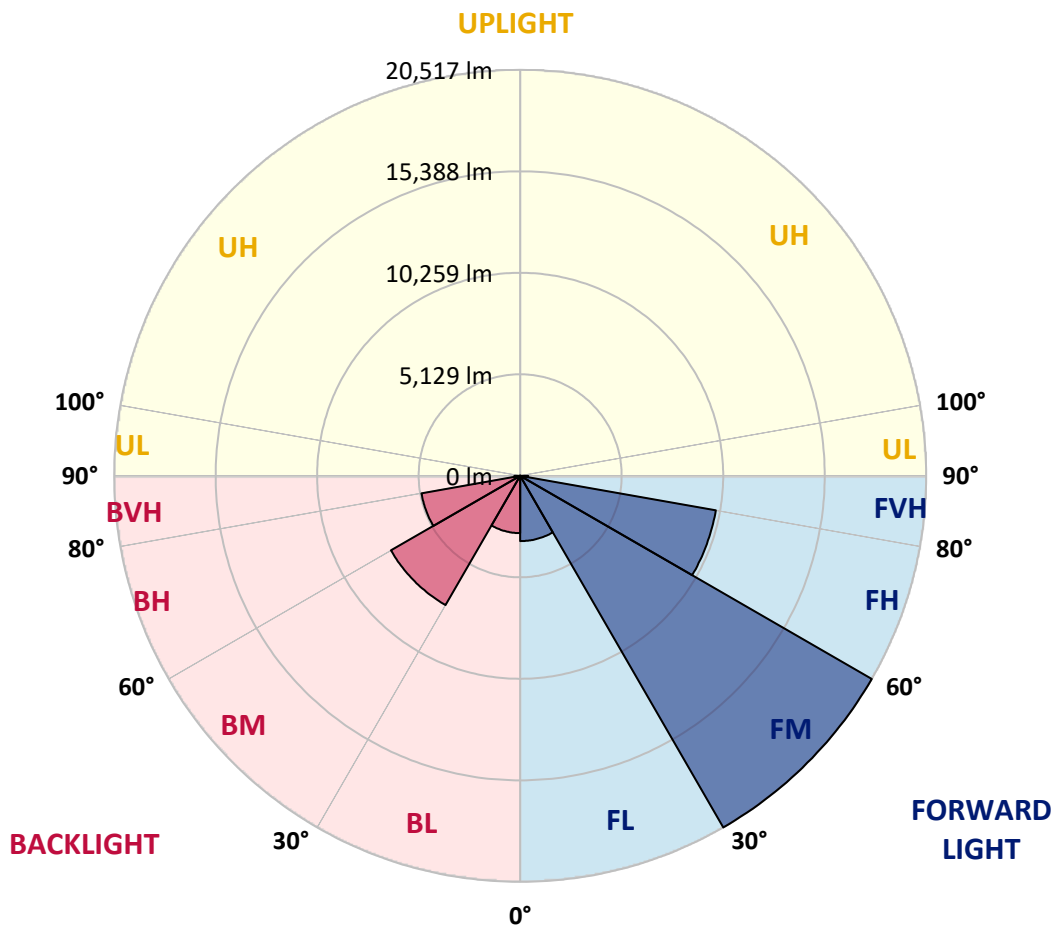
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3299.8	6.6			
FM	(30°-60°)	20517.4	41.0			
FH	(60°-80°)	10041.2	20.1			G4/12000
FVH	(80°-90°)	406.9	0.8			G3/500
BL	(0°-30°)	2897.1	5.8	B4/5000		
BM	(30°-60°)	7541.6	15.1	B4/8500		
BH	(60°-80°)	5067.8	10.1	B5		G5
BVH	(80°-90°)	291.2	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7
2.5°	5480.4	5464.8	5477.8	5477.8	5483.0	5480.4	5498.5	5503.7	5511.5	5527.1	5527.1
5°	5425.8	5423.2	5446.6	5467.4	5488.2	5506.3	5529.7	5563.5	5568.7	5586.9	5610.2
7.5°	5407.6	5392.1	5428.4	5454.4	5503.7	5547.9	5610.2	5667.4	5690.7	5698.5	5742.7
10°	5547.9	5521.9	5555.7	5571.3	5612.8	5657.0	5729.7	5820.6	5846.6	5877.8	5927.1
12.5°	5786.8	5758.3	5807.6	5831.0	5870.0	5908.9	5958.3	6046.6	6059.6	6116.7	6163.5
15°	6114.1	6080.3	6111.5	6140.1	6205.0	6241.4	6290.7	6376.4	6376.4	6420.6	6454.4
17.5°	6558.3	6514.1	6537.5	6547.9	6589.4	6644.0	6727.1	6802.4	6841.4	6825.8	6779.0
20°	7220.6	7166.0	7166.0	7114.1	7098.5	7142.7	7251.7	7355.6	7397.2	7316.7	7202.4
22.5°	8215.3	8137.4	8093.3	7916.7	7846.5	7851.7	7960.8	8088.1	8121.8	7979.0	7721.9
25°	9480.2	9358.2	9298.4	9038.7	8880.3	8742.6	8828.3	8992.0	9038.7	8862.1	8446.5
27.5°	10745.1	10752.9	10695.8	10384.1	10121.8	9869.8	9825.7	9997.1	10046.5	9846.5	9332.2
30°	12519.1	12334.7	12225.6	11851.6	11477.6	11124.4	10942.5	11012.7	11025.7	10786.7	10189.3
32.5°	14048.9	14002.2	13768.4	13441.2	12960.7	12407.4	12103.6	11991.9	11971.1	11630.8	10921.8
35°	15791.8	15765.8	15519.0	15129.4	14610.0	13841.2	13293.1	12973.7	12947.7	12469.8	11646.4
37.5°	17563.1	17563.1	17321.6	16895.6	16358.0	15397.0	14563.2	14056.7	13973.6	13350.3	12384.1
40°	18976.1	18890.4	18934.5	18755.3	18139.7	17119.0	15973.6	15238.5	15126.8	14378.8	13168.5
42.5°	19778.7	19750.1	20015.0	20215.0	19963.1	19147.5	17526.8	16519.0	16363.2	15511.2	14072.3
45°	19957.9	19926.7	20399.4	21131.9	21485.1	21150.0	19215.0	17867.0	17677.4	16695.6	15041.1
47.5°	19544.9	19482.6	20176.0	21331.9	22464.3	23053.9	21043.6	19329.3	19054.0	17848.8	16035.9
50°	18303.4	18243.6	19293.0	20828.0	22794.2	24347.4	23027.9	20879.9	20459.2	19085.2	17041.1
52.5°	15604.7	15633.3	17277.4	19386.5	22360.4	25152.5	24737.0	22513.6	22007.2	20350.1	17983.9
55°	12155.5	12217.8	14238.6	16560.6	20625.4	25030.5	25903.2	24196.7	23692.8	21539.6	18957.9
57.5°	8703.6	8979.0	10872.4	13171.1	17293.0	23095.4	26157.7	25796.7	25308.4	22838.3	19911.1
60°	5641.4	5690.7	7638.7	9955.6	13168.5	19656.6	25640.8	27009.6	26627.8	24162.9	20708.5
62.5°	3615.5	3649.2	4836.2	6963.4	9477.7	14542.4	23900.6	27536.9	27420.0	25038.2	21474.7
65°	2657.1	2631.1	3249.3	4602.5	6384.2	8968.6	20521.5	27282.3	27513.5	25586.3	22108.5
67.5°	2218.1	2181.8	2485.6	3186.9	4703.8	5093.4	15184.0	25627.8	26474.6	25523.9	22573.4
70°	2020.7	1989.6	2174.0	2366.2	3670.0	3410.3	7654.3	22279.9	23583.7	24814.9	22498.1
72.5°	1711.6	1657.1	1909.0	2101.2	2854.5	2615.5	3163.5	17113.8	18703.4	22542.2	21438.3
75°	1327.2	1290.9	1506.5	1849.3	2145.4	2041.5	1999.9	10391.9	12126.9	17433.3	18755.3
77.5°	1051.9	1002.6	1200.0	1441.5	1929.8	1540.2	1457.1	4475.2	6194.6	11129.6	14033.4
80°	792.2	748.0	911.7	1140.2	1483.1	1161.0	942.8	1825.9	2335.0	5638.8	7056.9
82.5°	563.6	524.7	636.3	836.3	997.4	1041.5	579.2	1023.3	1150.6	2174.0	1576.6
85°	361.0	337.7	426.0	524.7	633.7	670.1	353.2	535.0	587.0	896.1	657.1
87.5°	197.4	161.0	228.6	244.1	293.5	267.5	168.8	194.8	210.4	324.7	277.9
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°	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7	5516.7
2.5°	5537.5	5545.3	5571.3	5579.1	5597.2	5620.6	5636.2	5651.8	5651.8	5667.4	5667.4
5°	5612.8	5631.0	5685.6	5714.1	5760.9	5807.6	5836.2	5870.0	5890.7	5901.1	5906.3
7.5°	5758.3	5786.8	5864.8	5914.1	5994.6	6059.6	6103.7	6150.5	6160.9	6189.4	6179.0
10°	5955.7	5989.4	6077.7	6171.3	6267.4	6347.9	6389.4	6423.2	6436.2	6441.4	6428.4
12.5°	6181.6	6231.0	6345.3	6459.6	6560.9	6631.0	6641.4	6633.6	6597.2	6566.0	6566.0
15°	6459.6	6503.7	6631.0	6755.7	6854.3	6867.3	6802.4	6760.8	6716.7	6708.9	6708.9
17.5°	6792.0	6815.4	6932.3	7054.3	7062.1	7018.0	6921.9	6882.9	6841.4	6812.8	6815.4
20°	7179.0	7171.2	7254.3	7306.3	7251.7	7116.7	6971.2	6906.3	6864.7	6831.0	6833.6
22.5°	7641.3	7581.6	7571.2	7558.2	7412.8	7129.7	6932.3	6849.2	6784.2	6737.5	6753.1
25°	8314.0	8085.5	7927.0	7838.7	7511.5	7059.5	6807.6	6623.2	6501.1	6420.6	6451.8
27.5°	9155.6	8771.2	8371.2	8155.6	7511.5	6916.7	6506.3	6207.6	6007.6	5924.5	5966.1
30°	9958.2	9555.6	8966.0	8537.4	7493.3	6682.9	6020.6	5605.0	5371.3	5288.2	5337.5
32.5°	10643.9	10204.9	9597.1	8955.6	7449.1	6303.7	5418.0	4958.3	4732.3	4633.6	4683.0
35°	11280.2	10812.7	10230.9	9415.3	7332.3	5747.9	4755.7	4405.1	4153.1	3994.7	4046.6
37.5°	11932.1	11376.3	10830.9	9830.9	7121.9	5098.6	4246.6	3947.9	3651.8	3438.9	3496.0
40°	12641.2	11976.3	11472.4	10077.6	6776.4	4480.4	3851.8	3579.1	3264.8	3038.9	3083.0
42.5°	13469.7	12695.7	12186.7	10204.9	6303.7	4041.4	3594.7	3327.2	3031.1	2846.7	2883.0
45°	14334.7	13487.9	12838.6	10202.3	5776.5	3836.3	3511.6	3246.7	2919.4	2727.2	2758.4
47.5°	15241.1	14316.5	13402.2	10036.1	5319.3	3864.8	3464.8	3072.6	2711.6	2524.6	2550.6
50°	16150.2	15222.9	13947.7	9724.4	5124.5	3802.5	3290.8	2828.5	2402.5	2233.7	2244.1
52.5°	17051.5	16186.6	14417.8	9280.3	4927.1	3571.3	3067.4	2511.6	2275.3	2158.4	2158.4
55°	17957.9	17139.8	14929.4	8633.5	4433.6	3301.2	2693.4	2392.1	2174.0	2067.5	2057.1
57.5°	18867.0	18241.0	15415.1	7986.8	3812.9	2968.7	2488.2	2246.7	2072.7	1981.8	1966.2
60°	19812.4	19500.7	15916.4	7392.0	3199.9	2542.8	2337.6	2129.8	1953.2	1851.9	1844.1
62.5°	20786.4	20887.7	16308.6	6625.8	2636.3	2283.1	2202.5	1989.6	1818.1	1722.0	1719.4
65°	21768.2	22225.3	16565.8	5563.5	2137.6	2036.3	2057.1	1836.3	1662.3	1579.2	1576.6
67.5°	22508.4	23188.9	16493.0	4210.3	1753.2	1802.5	1875.3	1675.3	1511.6	1446.7	1449.3
70°	22591.6	23074.7	15776.2	2883.0	1467.5	1574.0	1672.7	1516.8	1348.0	1301.3	1303.9
72.5°	21485.1	21516.3	13778.8	1883.1	1241.5	1381.8	1459.7	1355.8	1192.2	1145.4	1142.8
75°	18583.9	17794.3	10116.6	1241.5	1038.9	1187.0	1259.7	1187.0	1028.5	1038.9	1002.6
77.5°	14080.1	12602.2	6142.7	883.1	867.5	997.4	1096.1	1044.1	909.1	1020.8	898.7
80°	7254.3	6818.0	2740.2	659.7	685.7	797.4	901.3	833.7	719.5	685.7	626.0
82.5°	1662.3	1932.4	1080.5	472.7	496.1	574.0	688.3	626.0	516.9	436.4	431.2
85°	581.8	636.3	477.9	296.1	290.9	358.4	467.5	418.2	350.6	280.5	296.1
87.5°	184.4	241.6	179.2	119.5	124.7	161.0	215.6	197.4	163.6	106.5	111.7
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)