

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: P955911

Luminaire Tested: **GALN-SB8D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69236 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 584.9
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

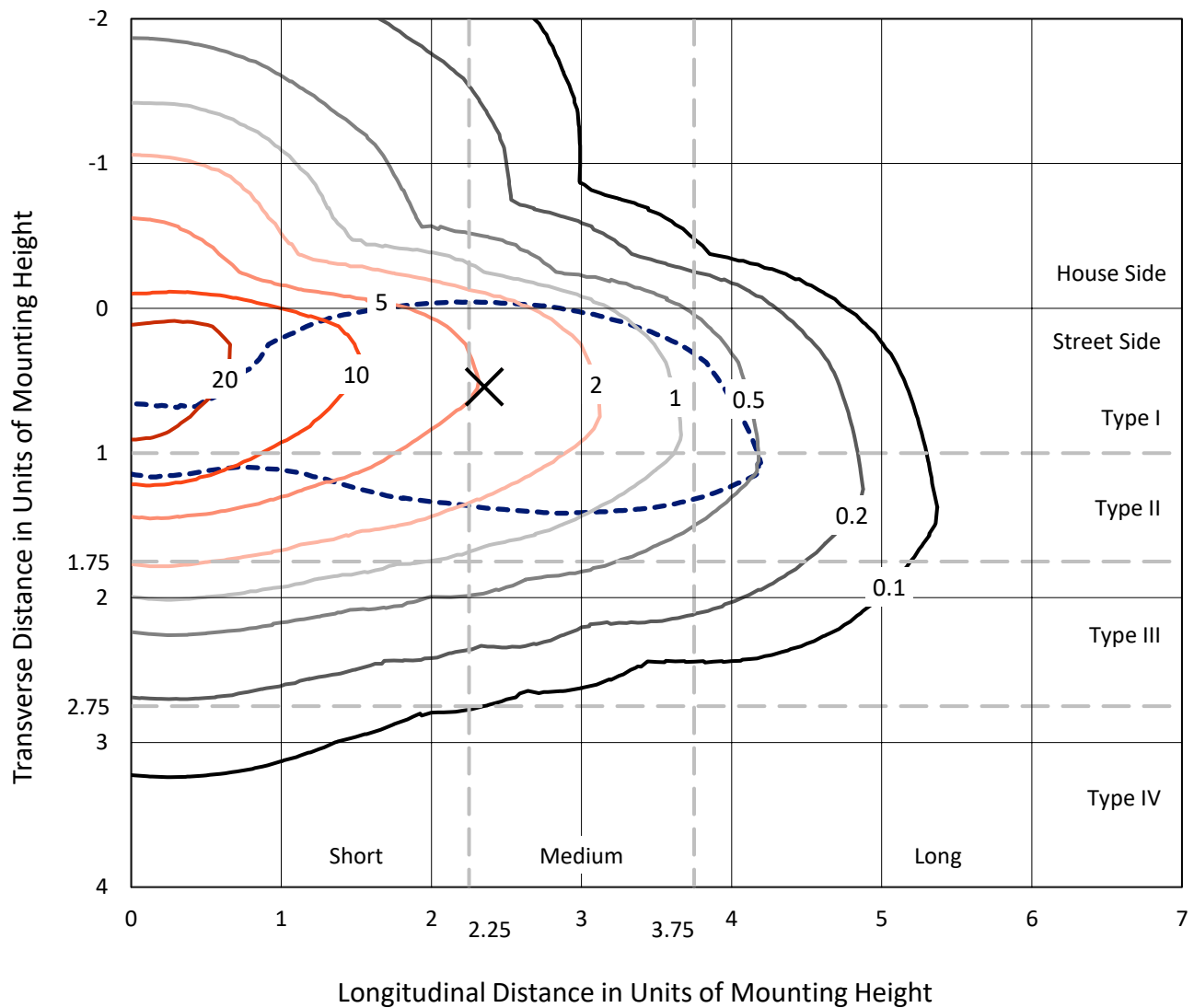


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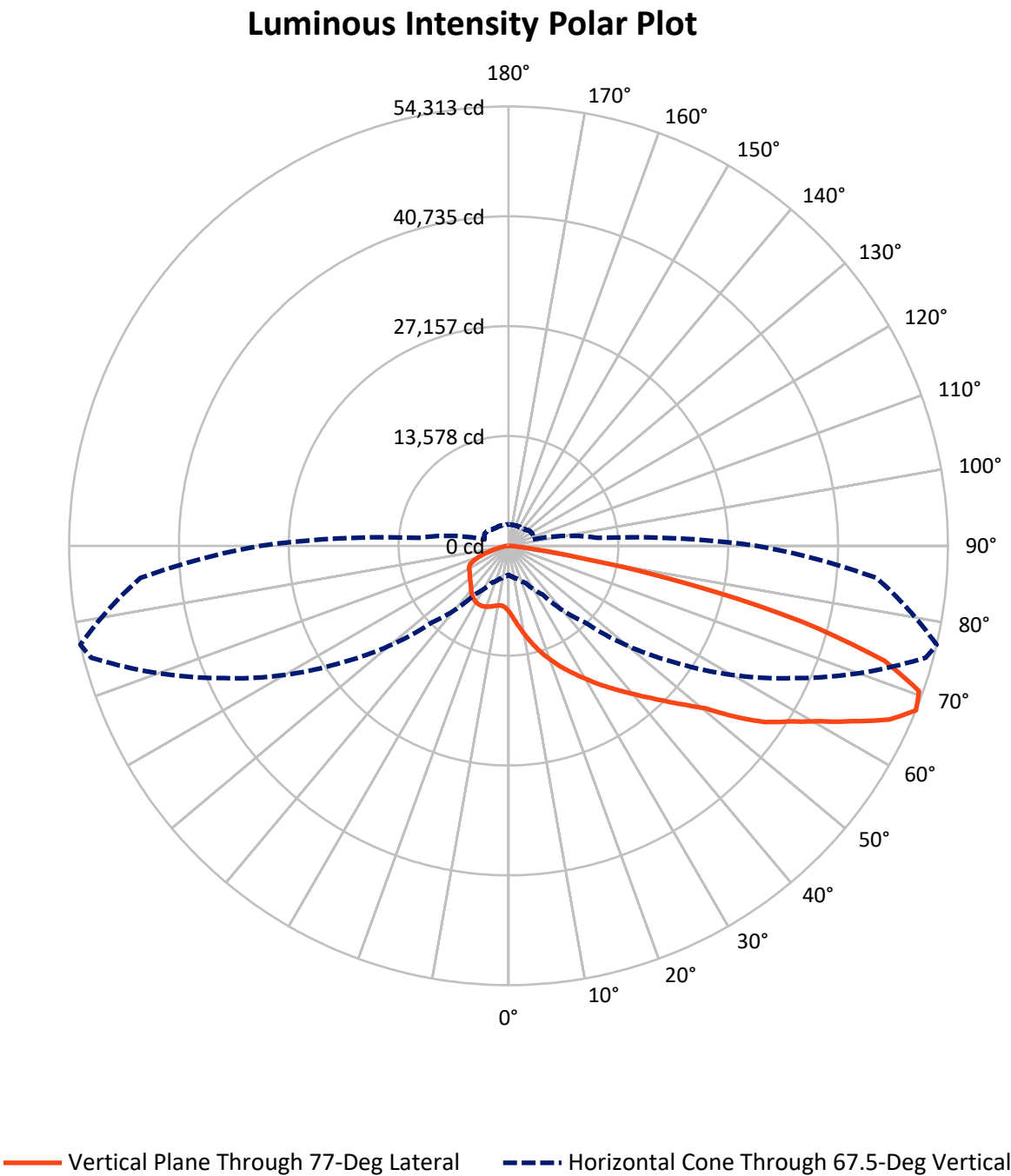
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13096.7	0.0	13096.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	56139.3	0.0	56139.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	69236.0	0.0	69236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.7	1.3
10°-20°	3128.2	4.5
20°-30°	5906.3	8.5
30°-40°	9515.0	13.7
40°-50°	13014.8	18.8
50°-60°	14680.8	21.2
60°-70°	13702.7	19.8
70°-80°	7511.4	10.8
80°-90°	906.0	1.3
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°	69236.0	100.0
0°-180°	69236.0	100.0

Coefficient of Utilization



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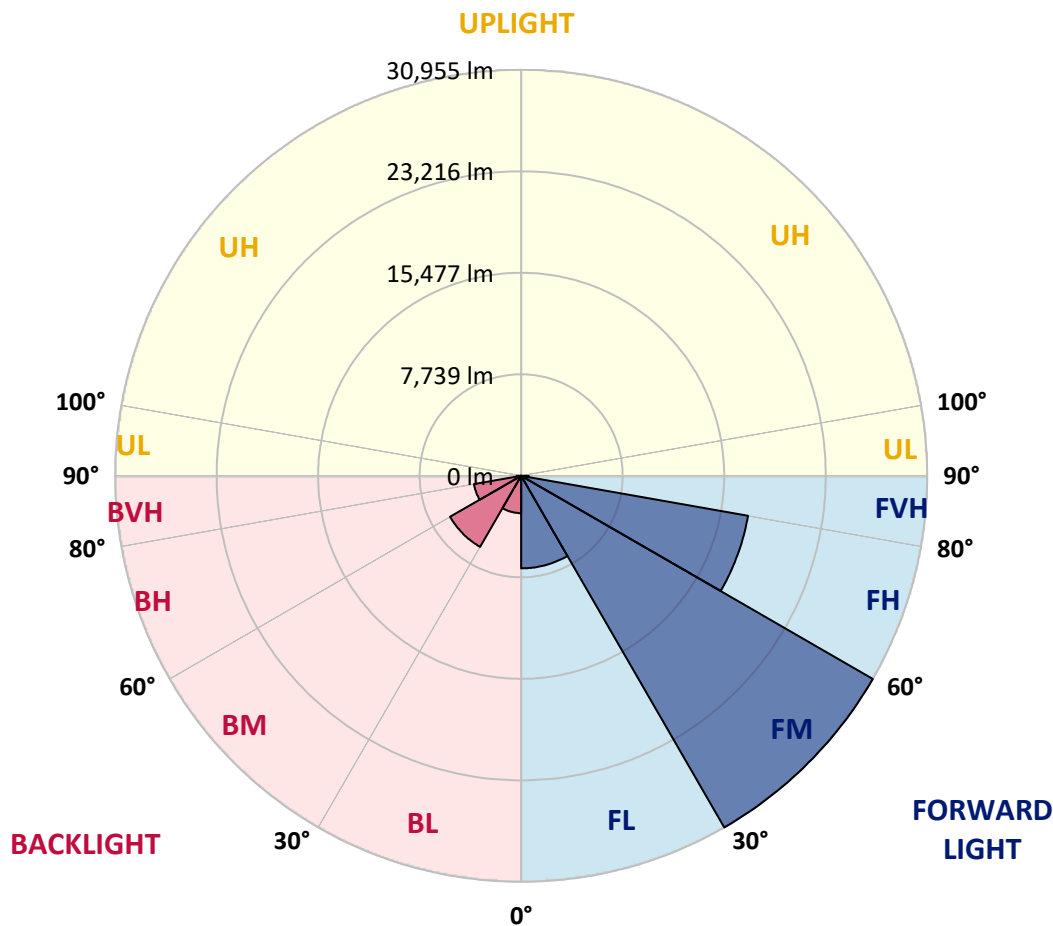
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7057.7	10.2			
FM	(30°-60°)	30954.7	44.7			
FH	(60°-80°)	17560.3	25.4			G5
FVH	(80°-90°)	566.6	0.8			G4/750
BL	(0°-30°)	2847.5	4.1	B4/5000		
BM	(30°-60°)	6256.0	9.0	B4/8500		
BH	(60°-80°)	3653.8	5.3	B4/5000		G4/5000
BVH	(80°-90°)	339.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5
2.5°	10171.4	10242.9	10153.5	10153.5	9853.3	9696.1	9395.9	9167.1	8756.1	8684.6	8413.0
5°	12022.7	12112.0	11986.9	11933.3	11579.5	11254.3	10750.4	10253.6	9520.9	9445.9	8806.2
7.5°	13455.8	13570.2	13459.4	13402.2	13087.7	12723.2	12133.5	11440.1	10407.3	10260.7	9335.1
10°	14624.5	14642.4	14606.6	14628.1	14381.5	14081.3	13477.3	12669.6	11379.4	11179.2	9974.8
12.5°	15285.7	15367.9	15439.4	15568.0	15525.1	15339.3	14796.1	13831.1	12408.7	12151.3	10671.7
15°	15596.6	15739.6	15900.4	16197.0	16436.5	16482.9	16068.4	15078.4	13455.8	13144.9	11375.8
17.5°	15707.4	15843.2	16097.0	16525.8	17040.5	17387.1	17201.3	16290.0	14492.3	14134.9	12115.6
20°	16268.5	16307.8	16461.5	16868.9	17426.5	18001.9	18141.2	17455.1	15518.0	15114.1	12880.4
22.5°	17469.4	17390.7	17433.6	17619.5	18019.7	18577.3	18895.3	18484.3	16572.3	16107.7	13652.4
25°	19452.9	19224.1	18995.4	18781.0	18984.7	19299.2	19660.2	19513.6	17676.6	17086.9	14431.5
27.5°	21958.2	21679.4	21175.5	20471.4	20224.8	20335.6	20496.5	20467.9	18698.8	18101.9	15235.6
30°	24424.2	24099.0	23498.6	22480.0	21829.5	21536.5	21415.0	21332.8	19810.3	19174.1	16046.9
32.5°	26393.4	26136.1	25546.4	24406.3	23462.8	22962.5	22558.6	22265.6	20971.8	20335.6	16904.7
35°	28116.1	27876.6	27201.2	25957.4	24931.7	24399.2	23870.3	23244.8	22179.8	21536.5	17826.7
37.5°	29688.6	29449.2	28523.5	27229.7	26196.9	25828.8	25357.0	24295.5	23391.3	22783.8	18802.4
40°	30682.2	30628.5	29763.7	28298.3	27226.2	27043.9	26886.6	25514.3	24735.1	24170.5	19874.6
42.5°	30935.9	31053.8	30367.6	29163.2	28141.1	27994.6	28362.7	26893.8	26243.3	25703.7	21089.7
45°	30324.8	30664.3	30214.0	29395.5	28791.5	28712.9	29670.7	28402.0	27912.4	27419.2	22555.0
47.5°	28777.3	29352.7	29166.8	29052.4	28966.7	29306.2	30821.5	30003.1	29803.0	29374.1	24227.6
50°	25653.6	26743.7	27068.9	27790.8	28620.0	29767.2	31868.7	31750.8	32011.7	31579.2	26264.8
52.5°	20253.4	21754.5	23641.5	25449.9	27555.0	29613.6	33019.5	34259.7	35360.4	35124.5	29502.8
55°	16718.8	17394.3	18845.3	22161.9	25489.2	28966.7	33537.7	36286.1	38684.2	38473.3	31958.0
57.5°	14002.6	14606.6	15500.1	18269.9	22365.6	27497.8	33859.4	37522.6	40960.8	40939.3	34381.2
60°	11089.9	11729.6	12644.6	14606.6	18716.7	24960.3	33787.9	38930.8	43866.4	44045.1	37336.8
62.5°	7801.9	8505.9	9520.9	11350.8	14989.0	21672.3	32329.7	39949.3	47286.6	47772.7	40892.9
65°	5128.6	5593.2	6358.0	7937.7	11168.5	17444.3	29545.6	40081.6	50946.3	51768.3	44230.9
67.5°	3595.4	3774.1	4224.4	5082.1	7362.3	13377.2	25110.4	38712.8	53387.3	54313.0	45678.3
70°	2805.5	2894.9	3123.6	3466.7	4624.7	8995.6	19242.0	35153.1	52865.5	53830.5	44166.6
72.5°	2423.1	2508.9	2594.7	2637.6	3102.2	5553.9	13034.1	29392.0	47951.4	48605.4	38401.8
75°	2198.0	2219.4	2290.9	2276.6	2365.9	3602.5	7523.1	21415.0	37833.6	37608.4	28348.4
77.5°	1847.7	1876.3	1994.3	1976.4	2101.5	2462.4	3906.3	13820.4	24527.9	22998.2	15778.9
80°	1565.4	1579.7	1708.3	1686.9	1826.3	1783.4	1994.3	7044.2	10403.7	8813.3	4549.6
82.5°	543.2	671.9	1304.5	1343.8	1393.8	1079.3	1150.8	2873.4	3177.2	2433.8	954.2
85°	264.5	282.3	664.8	943.5	939.9	543.2	561.1	1025.7	1000.7	786.3	318.1
87.5°	42.9	53.6	78.6	368.1	293.1	143.0	193.0	200.1	207.3	178.7	71.5
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°	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5	8123.5
2.5°	8212.9	8034.2	7658.9	7312.3	7040.6	6779.7	6633.2	6508.1	6436.6	6422.3	6422.3
5°	8434.5	8066.4	7383.7	6808.3	6433.1	6154.3	6007.8	5914.8	5868.4	5839.8	5836.2
7.5°	8752.5	8212.9	7240.8	6586.7	6193.6	5993.5	5918.4	5904.1	5900.6	5904.1	5914.8
10°	9192.1	8452.3	7226.5	6533.1	6204.3	6093.5	6090.0	6093.5	6107.8	6111.4	6115.0
12.5°	9667.5	8698.9	7283.7	6579.6	6340.1	6279.4	6268.7	6265.1	6275.8	6283.0	6286.5
15°	10185.7	9024.2	7380.2	6679.7	6490.2	6425.9	6415.2	6393.8	6390.2	6386.6	6383.0
17.5°	10718.2	9345.8	7487.4	6786.9	6586.7	6497.4	6458.1	6408.0	6368.7	6358.0	6368.7
20°	11257.9	9663.9	7562.4	6840.5	6593.9	6468.8	6390.2	6304.4	6236.5	6197.2	6211.5
22.5°	11833.3	9996.3	7608.9	6826.2	6529.6	6358.0	6215.1	6115.0	6011.3	5943.4	5947.0
25°	12394.4	10285.8	7605.3	6751.1	6404.5	6186.5	6004.2	5875.5	5732.6	5661.1	5661.1
27.5°	12934.0	10546.7	7516.0	6618.9	6225.8	5982.8	5764.7	5611.1	5471.7	5403.8	5400.2
30°	13491.6	10764.7	7376.6	6425.9	6014.9	5746.9	5507.4	5375.2	5250.1	5185.8	5182.2
32.5°	14045.5	10964.8	7180.0	6186.5	5771.9	5514.6	5278.7	5157.2	5082.1	5082.1	5085.7
35°	14631.7	11104.2	6919.1	5907.7	5514.6	5268.0	5082.1	5010.6	5003.5	4960.6	4949.9
37.5°	15249.9	11193.5	6601.0	5621.8	5260.8	5028.5	4971.3	4885.6	4814.1	4721.2	4706.9
40°	15900.4	11282.9	6218.6	5325.1	4992.8	4864.1	4839.1	4724.7	4521.0	4292.3	4260.1
42.5°	16690.2	11343.6	5821.9	5028.5	4710.4	4667.5	4703.3	4506.7	4181.5	4009.9	4013.5
45°	17605.2	11443.7	5457.4	4735.5	4420.9	4420.9	4571.1	4313.7	4045.7	3938.5	3956.3
47.5°	18791.7	11676.0	5117.9	4413.8	4152.9	4224.4	4278.0	4081.4	3931.3	3799.1	3795.5
50°	20507.2	12233.5	4767.6	4088.6	3949.2	4092.1	4017.1	3902.7	3727.6	3620.4	3609.7
52.5°	22637.2	12562.3	4456.7	3795.5	3774.1	3917.0	3809.8	3702.6	3570.4	3427.4	3398.8
55°	24088.3	12623.1	4195.8	3581.1	3656.1	3641.8	3602.5	3506.0	3434.5	3245.1	3248.7
57.5°	25710.8	12744.6	3981.4	3452.4	3581.1	3423.8	3409.5	3327.3	3234.4	3105.7	3062.9
60°	27651.5	12934.0	3795.5	3402.4	3516.7	3280.9	3209.4	3177.2	3084.3	3020.0	3037.8
62.5°	29767.2	13105.6	3606.1	3409.5	3441.7	3141.5	3034.3	3023.5	2966.4	2944.9	2944.9
65°	31211.1	12637.4	3370.2	3402.4	3323.8	2998.5	2862.7	2859.1	2812.7	2805.5	2802.0
67.5°	30707.2	11154.2	3052.1	3302.3	3202.2	2855.6	2705.5	2691.2	2630.4	2634.0	2634.0
70°	28184.0	9038.5	2612.5	3055.7	3052.1	2726.9	2541.1	2494.6	2412.4	2426.7	2441.0
72.5°	23452.1	6697.5	2022.8	2644.7	2812.7	2609.0	2351.6	2276.6	2172.9	2187.2	2183.7
75°	16936.8	4553.2	1472.5	2012.1	2448.1	2469.6	2165.8	2037.1	1912.1	1933.5	1940.6
77.5°	8666.8	2580.4	1082.9	1386.7	1922.8	2244.4	1997.8	1826.3	1797.7	1997.8	1969.2
80°	2827.0	1293.8	750.5	972.1	1261.6	1837.0	1751.2	1554.7	1547.5	1594.0	1368.8
82.5°	843.4	546.8	482.5	639.7	696.9	1408.1	1511.8	1175.8	1011.4	1065.0	1100.8
85°	289.5	264.5	275.2	318.1	332.4	825.6	1057.9	779.1	736.2	811.3	800.6
87.5°	67.9	92.9	78.6	71.5	71.5	200.1	411.0	325.2	450.3	300.2	289.5
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)