

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: P530112

Luminaire Tested: **GALN-SA5B-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23902 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

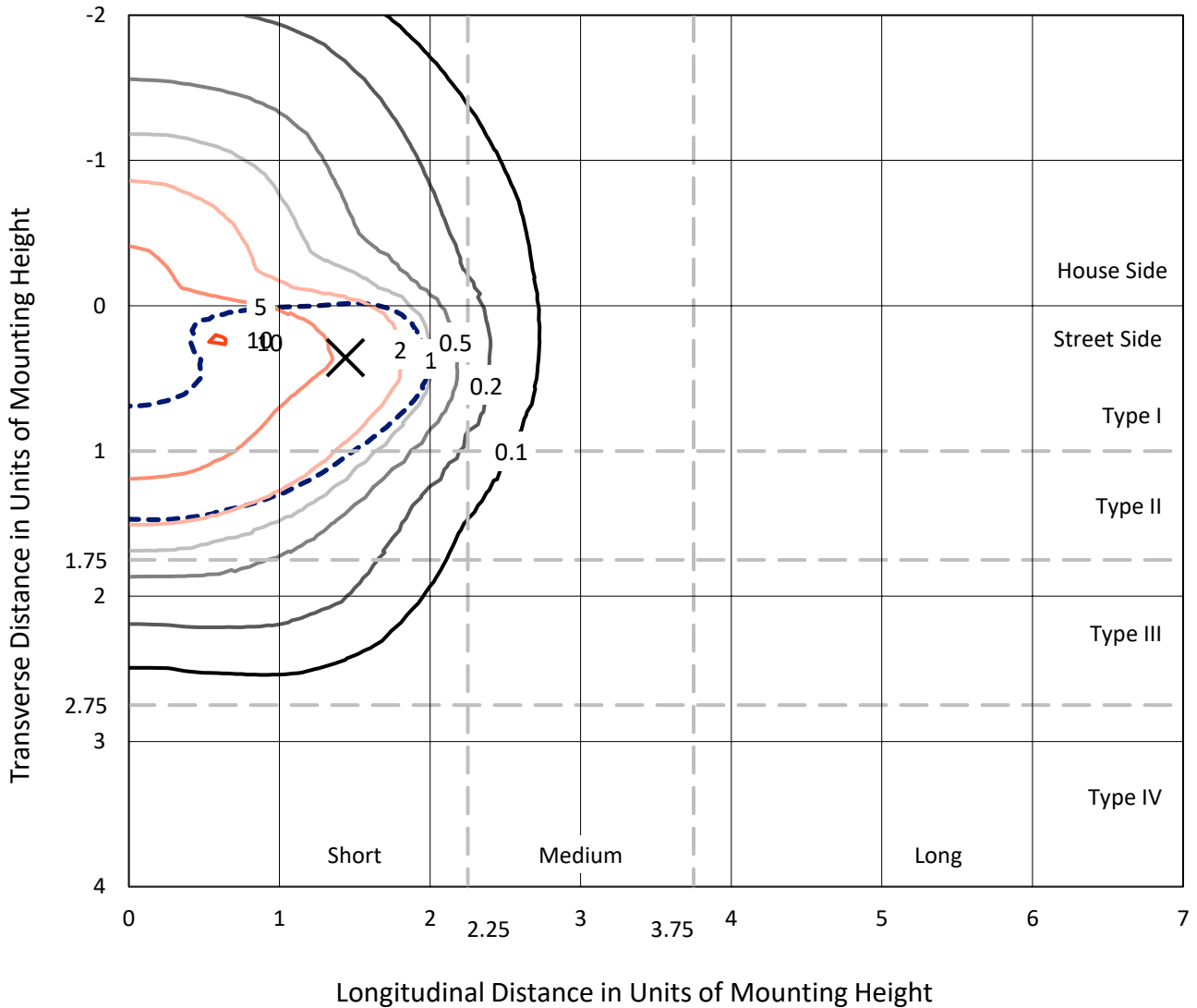
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

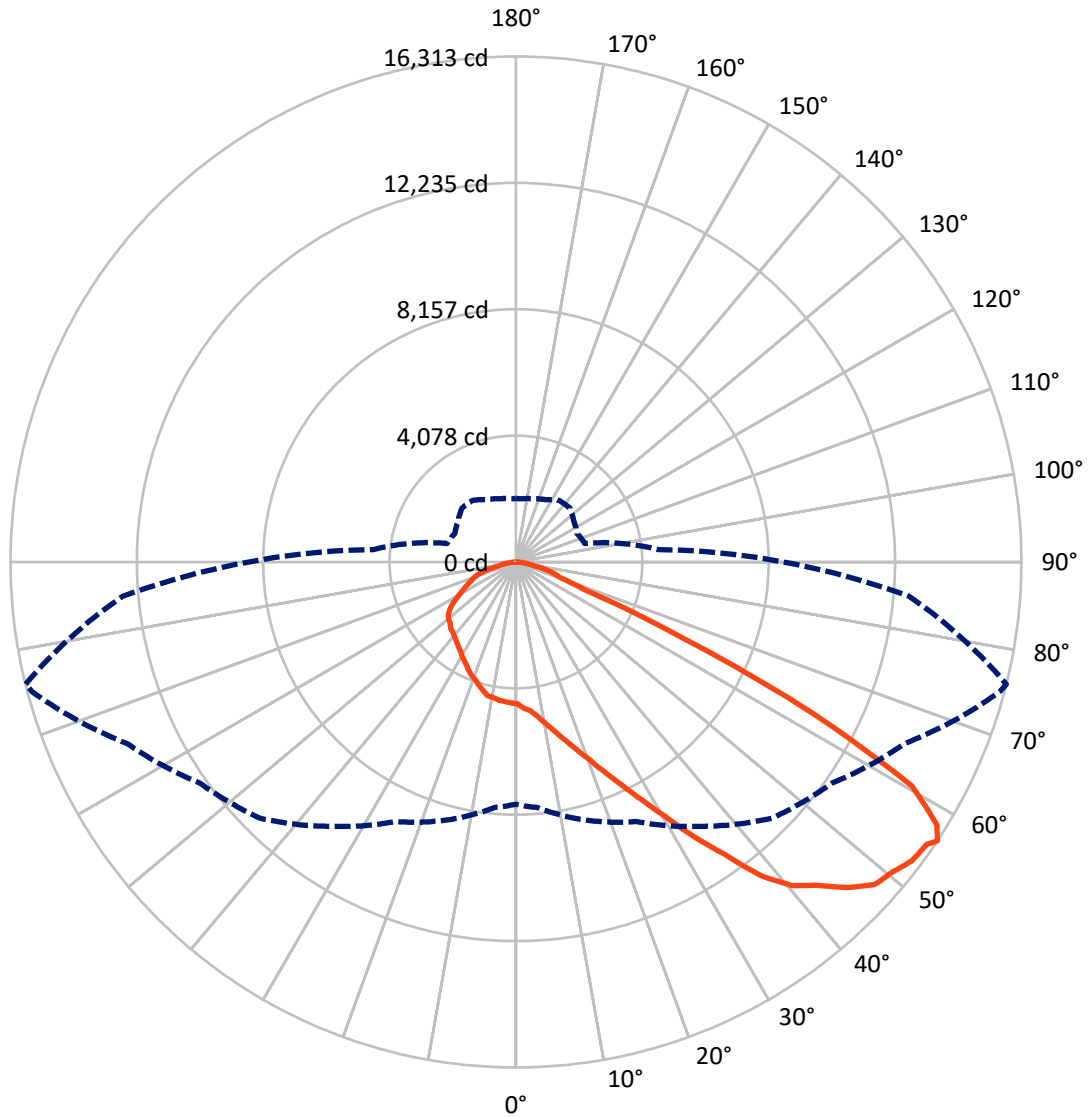
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6426.5	0.0	6426.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	17475.5	0.0	17475.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	23902.0	0.0	23902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.5	1.9
10°-20°	1424.7	6.0
20°-30°	2491.6	10.4
30°-40°	3901.2	16.3
40°-50°	5675.1	23.7
50°-60°	6237.3	26.1
60°-70°	2784.1	11.6
70°-80°	804.1	3.4
80°-90°	130.4	0.5
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°	23902.0	100.0
0°-180°	23902.0	100.0

Coefficient of Utilization



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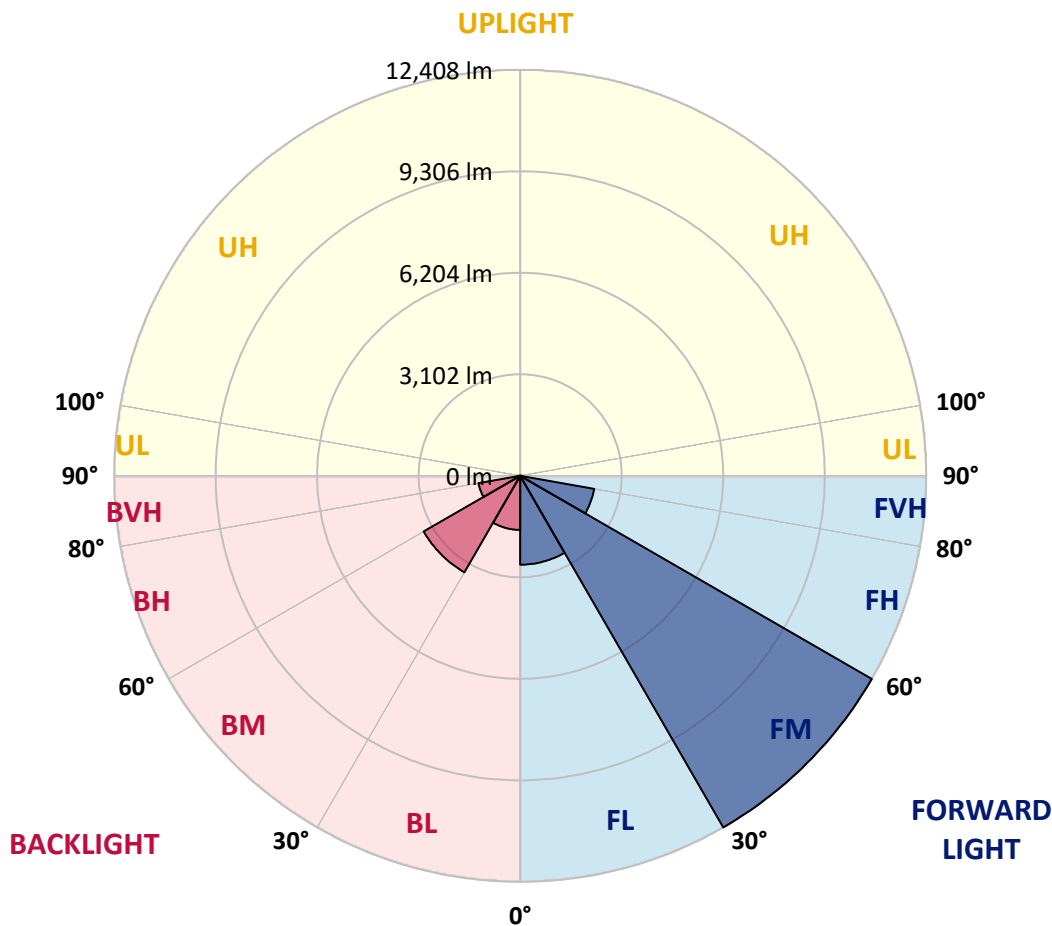
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2716.2	11.4			
FM (30°-60°)	12408.0	51.9			
FH (60°-80°)	2295.2	9.6			G2/5000
FVH (80°-90°)	56.1	0.2			G1/100
BL (0°-30°)	1653.7	6.9	B3/2500		
BM (30°-60°)	3405.5	14.2	B3/5000		
BH (60°-80°)	1293.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	5038.1	4957.6	4951.4	4929.7	4942.1	4886.3	4827.4	4750.0	4669.4	4719.0	4601.2
5°	5391.3	5282.9	5326.3	5251.9	5261.2	5186.8	5066.0	4976.1	4877.0	4818.1	4734.5
7.5°	5515.3	5524.6	5555.6	5543.2	5481.2	5481.2	5400.6	5242.6	5069.1	5035.0	4895.6
10°	5682.6	5685.7	5651.6	5660.9	5747.7	5707.4	5636.1	5567.9	5344.9	5304.6	5056.7
12.5°	5741.5	5685.7	5741.5	5791.0	5893.3	5949.1	5933.6	5884.0	5645.4	5617.5	5255.0
15°	5750.8	5716.7	5763.2	5874.7	5964.6	6200.0	6317.8	6283.7	5967.7	5970.8	5478.1
17.5°	5707.4	5753.9	5772.4	5868.5	6076.1	6296.1	6636.9	6683.4	6423.1	6382.8	5760.1
20°	5766.3	5732.2	5757.0	5843.7	6119.5	6463.4	6909.6	7216.3	6850.7	6822.8	6051.3
22.5°	5992.4	5946.0	5939.8	5995.5	6193.8	6550.2	7197.7	7749.3	7371.3	7386.8	6413.8
25°	6169.1	6193.8	6172.2	6169.1	6293.0	6680.3	7578.9	8384.5	8077.7	7987.9	6841.4
27.5°	6472.7	6531.6	6488.2	6547.1	6519.2	6875.5	7851.5	9087.8	8839.9	8719.1	7228.7
30°	6894.1	6925.1	6884.8	6884.8	6801.1	7148.2	8099.4	9822.1	9719.9	9555.7	7684.2
32.5°	7448.7	7495.2	7414.6	7368.2	7355.8	7554.1	8545.6	10547.2	10720.7	10581.3	8288.4
35°	8183.1	8155.2	8059.1	8015.7	7848.4	8176.9	9208.7	11380.7	11836.2	11588.3	9019.6
37.5°	8830.6	8787.3	8781.1	8539.4	8579.7	8849.2	9772.6	12012.8	12917.5	12846.3	9791.2
40°	9434.8	9475.1	9540.2	9403.9	9341.9	9639.3	10429.4	12496.1	13757.2	13729.3	10386.1
42.5°	10082.4	10045.2	10159.9	10045.2	9952.3	10373.7	11142.1	12830.8	14494.6	14265.4	11008.9
45°	11021.3	10903.5	10943.8	10953.1	10884.9	11039.8	11436.5	13072.4	15012.1	14987.3	11464.3
47.5°	11805.2	11808.3	11740.1	11687.4	11479.8	11634.8	11764.9	13224.3	15607.0	15566.7	11640.9
50°	12096.4	12056.1	12254.4	12369.1	12381.5	12065.4	12022.1	13307.9	15919.9	15743.3	11817.6
52.5°	11049.1	11086.3	11399.3	12080.9	12474.4	12508.5	12322.6	13481.4	16047.0	16009.8	11960.1
55°	8892.6	9072.3	9586.7	10373.7	11306.3	12331.9	12648.0	13661.2	16115.1	16084.2	12592.2
56°	7817.4	7956.9	8626.1	9242.7	10414.0	11690.5	12443.5	13853.3	16167.8	16313.4	12740.9
57.5°	6293.0	6454.1	6934.4	7634.6	9016.5	10469.7	11879.5	13617.8	15963.3	16019.1	12849.4
60°	3935.1	3950.5	4526.9	4988.5	5961.5	7380.6	9066.1	11848.5	14773.5	14692.9	11541.8
62.5°	2581.0	2584.1	3107.8	3485.8	3928.9	4254.2	5335.6	7857.7	10900.4	10757.9	8217.1
65°	1812.6	1852.9	2258.8	2763.8	2943.5	2773.1	2739.0	4142.7	6088.5	5884.0	4415.3
67.5°	1326.1	1329.2	1688.7	2230.9	2491.2	2110.1	1713.5	2023.3	2410.6	2404.4	2045.0
70°	876.9	914.0	1189.8	1667.0	1964.4	1694.9	1400.5	1447.0	1533.7	1533.7	1521.3
72.5°	511.2	545.3	728.1	1056.6	1103.1	1059.7	1109.3	1239.4	1295.2	1292.1	1276.6
75°	291.3	306.7	347.0	440.0	548.4	647.6	814.9	938.8	994.6	1028.7	988.4
77.5°	170.4	179.7	204.5	251.0	285.1	350.1	443.1	529.8	604.2	594.9	601.1
80°	89.9	89.9	114.6	148.7	198.3	247.9	294.4	343.9	384.2	393.5	402.8
82.5°	52.7	55.8	74.4	108.4	142.5	176.6	226.2	260.3	297.5	300.6	306.7
85°	27.9	31.0	46.5	71.3	96.1	108.4	111.5	105.3	114.6	108.4	123.9
87.5°	9.3	9.3	15.5	12.4	12.4	15.5	18.6	18.6	24.8	24.8	24.8
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°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	4598.1	4598.1	4545.5	4446.3	4430.8	4390.5	4353.3	4350.3	4322.4	4297.6	4285.2
5°	4684.9	4588.8	4511.4	4421.5	4316.2	4266.6	4210.8	4148.9	4124.1	4148.9	4145.8
7.5°	4784.0	4703.5	4471.1	4303.8	4182.9	4133.4	4071.4	4006.3	4012.5	4012.5	3969.1
10°	4880.1	4771.6	4399.8	4186.0	4009.4	3972.2	3938.2	3962.9	3993.9	4000.1	3972.2
12.5°	5041.2	4796.4	4365.7	4068.3	3956.7	3876.2	3897.9	3966.0	4031.1	4012.5	4034.2
15°	5162.0	4818.1	4210.8	3947.4	3808.0	3845.2	3922.7	3969.1	4077.6	4065.2	4086.9
17.5°	5279.8	4830.5	4059.0	3786.3	3727.5	3829.7	3888.6	4021.8	4055.9	4130.3	4158.1
20°	5521.5	4855.3	3904.1	3687.2	3668.6	3786.3	3888.6	3950.5	4024.9	4090.0	4090.0
22.5°	5645.4	4842.9	3801.8	3557.0	3615.9	3690.3	3783.2	3888.6	3888.6	3950.5	3953.6
25°	5800.3	4793.3	3640.7	3495.1	3538.5	3609.7	3715.1	3677.9	3718.2	3718.2	3767.7
27.5°	5976.9	4688.0	3501.3	3383.5	3470.3	3547.7	3563.2	3538.5	3492.0	3485.8	3467.2
30°	6119.5	4557.8	3399.0	3346.3	3417.6	3461.0	3411.4	3358.7	3278.2	3272.0	3228.6
32.5°	6314.7	4396.7	3272.0	3253.4	3334.0	3337.1	3321.6	3241.0	3123.3	3073.7	3024.1
35°	6643.1	4303.8	3175.9	3203.8	3228.6	3219.3	3191.4	3104.7	2986.9	2965.2	2946.6
37.5°	6884.8	4235.6	3076.8	3110.9	3132.6	3144.9	3061.3	2965.2	2968.3	2925.0	2912.6
40°	7157.5	4192.2	2996.2	3011.7	3014.8	3055.1	2952.8	2906.4	2928.1	2900.2	2918.8
42.5°	7507.6	4204.6	2912.6	2900.2	2959.0	2943.5	2894.0	2832.0	2844.4	2760.7	2773.1
45°	7693.5	4288.3	2863.0	2807.2	2872.3	2869.2	2804.1	2745.2	2670.9	2509.8	2516.0
47.5°	7817.4	4310.0	2745.2	2708.1	2776.2	2816.5	2742.1	2605.8	2500.5	2385.8	2357.9
50°	7944.5	4350.3	2689.5	2612.0	2639.9	2735.9	2643.0	2512.9	2410.6	2308.4	2323.9
52.5°	8056.0	4427.7	2581.0	2466.4	2516.0	2621.3	2571.7	2413.7	2302.2	2218.5	2193.7
55°	8551.8	4601.2	2398.2	2249.5	2367.2	2500.5	2472.6	2280.5	2159.6	2116.3	2110.1
56°	8629.2	4607.4	2302.2	2175.1	2283.6	2460.2	2426.1	2221.6	2113.2	2045.0	2048.1
57.5°	8641.6	4533.1	2165.8	2107.0	2199.9	2401.3	2357.9	2175.1	2026.4	1964.4	1945.8
60°	7603.6	3538.5	1995.4	1958.2	2066.7	2221.6	2206.1	2048.1	1880.8	1809.5	1843.6
62.5°	5183.7	2593.4	1862.2	1856.0	1911.8	2063.6	2023.3	1880.8	1741.3	1694.9	1673.2
65°	3017.9	1967.5	1732.0	1707.3	1753.7	1834.3	1862.2	1713.5	1567.8	1536.8	1527.5
67.5°	1781.6	1626.7	1564.7	1524.4	1509.0	1558.5	1580.2	1493.5	1347.8	1304.5	1341.6
70°	1490.4	1447.0	1450.1	1381.9	1344.7	1310.7	1292.1	1214.6	1093.8	1038.0	1022.5
72.5°	1285.9	1267.3	1254.9	1192.9	1158.8	1081.4	1000.8	923.3	833.5	787.0	790.1
75°	982.2	976.0	982.2	951.2	892.4	830.4	756.0	656.9	588.7	529.8	542.2
77.5°	585.6	604.2	613.5	601.1	576.3	520.5	474.1	409.0	343.9	297.5	291.3
80°	402.8	418.3	433.8	418.3	393.5	353.2	303.6	254.1	207.6	182.8	176.6
82.5°	306.7	322.2	331.5	316.0	285.1	241.7	207.6	173.5	136.3	111.5	105.3
85°	111.5	127.0	123.9	148.7	161.1	154.9	133.2	102.2	77.5	55.8	52.7
87.5°	31.0	27.9	31.0	31.0	31.0	27.9	24.8	24.8	24.8	15.5	12.4
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)