

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: P941788

Luminaire Tested: **GALN-SB5C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26568 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.5
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

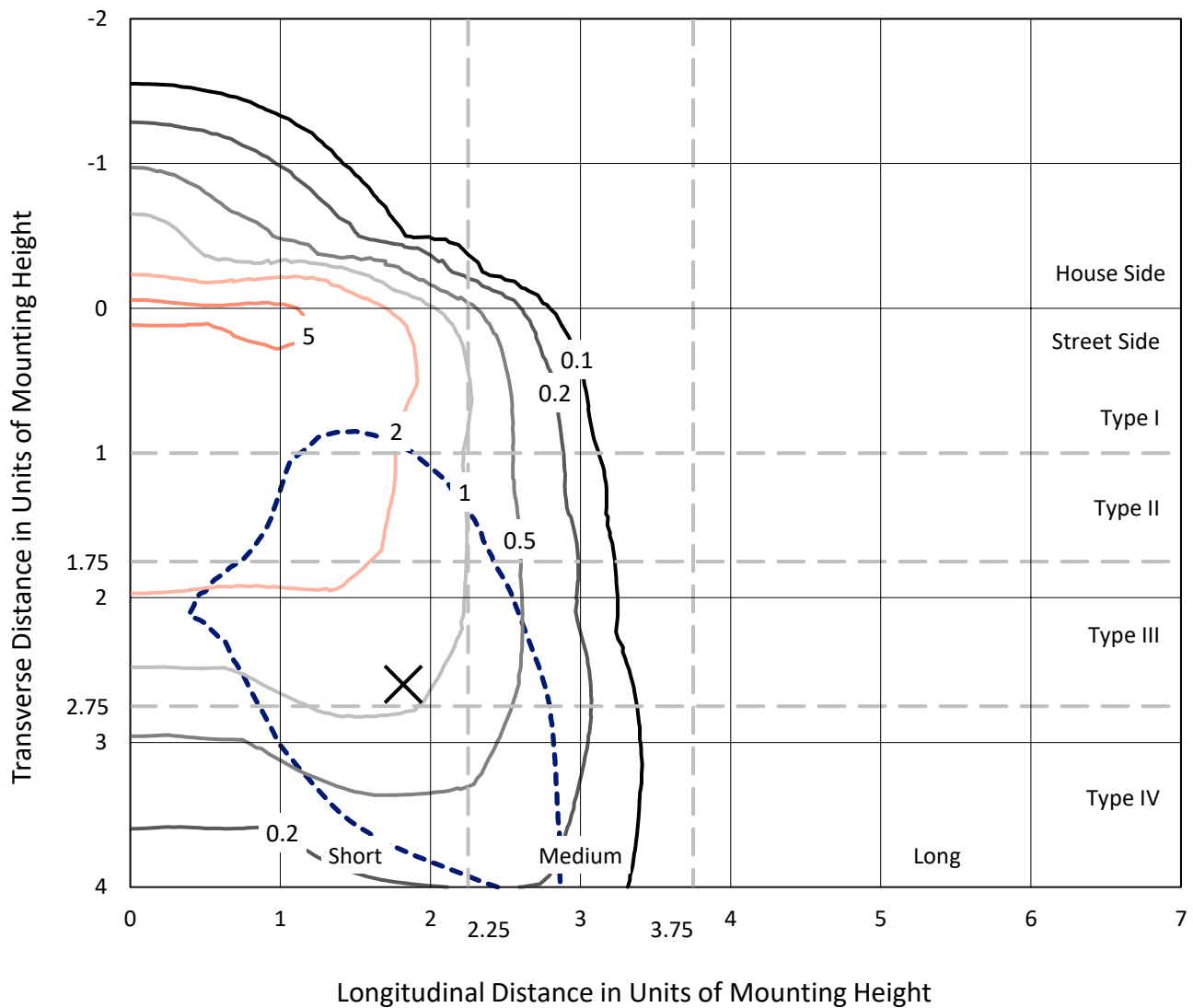


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Iso-Footcandle Lines of Horizontal Illumination

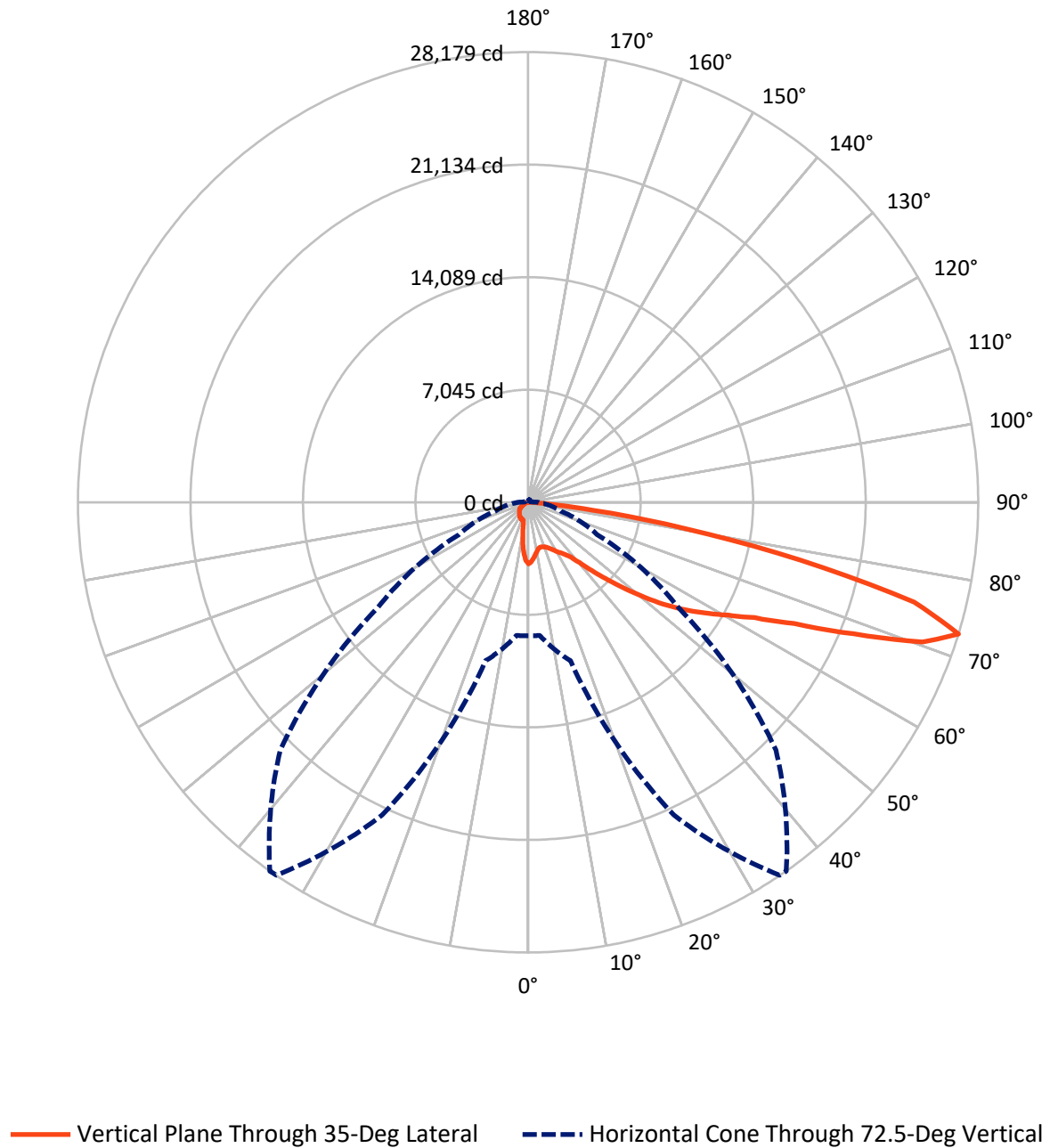
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2990.1	0.0	2990.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	23577.9	0.0	23577.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	26568.0	0.0	26568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	1.2
10°-20°	740.2	2.8
20°-30°	1202.5	4.5
30°-40°	2006.3	7.6
40°-50°	3796.0	14.3
50°-60°	6031.8	22.7
60°-70°	7461.7	28.1
70°-80°	4638.3	17.5
80°-90°	374.8	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°	26568.0	100.0
0°-180°	26568.0	100.0

Coefficient of Utilization



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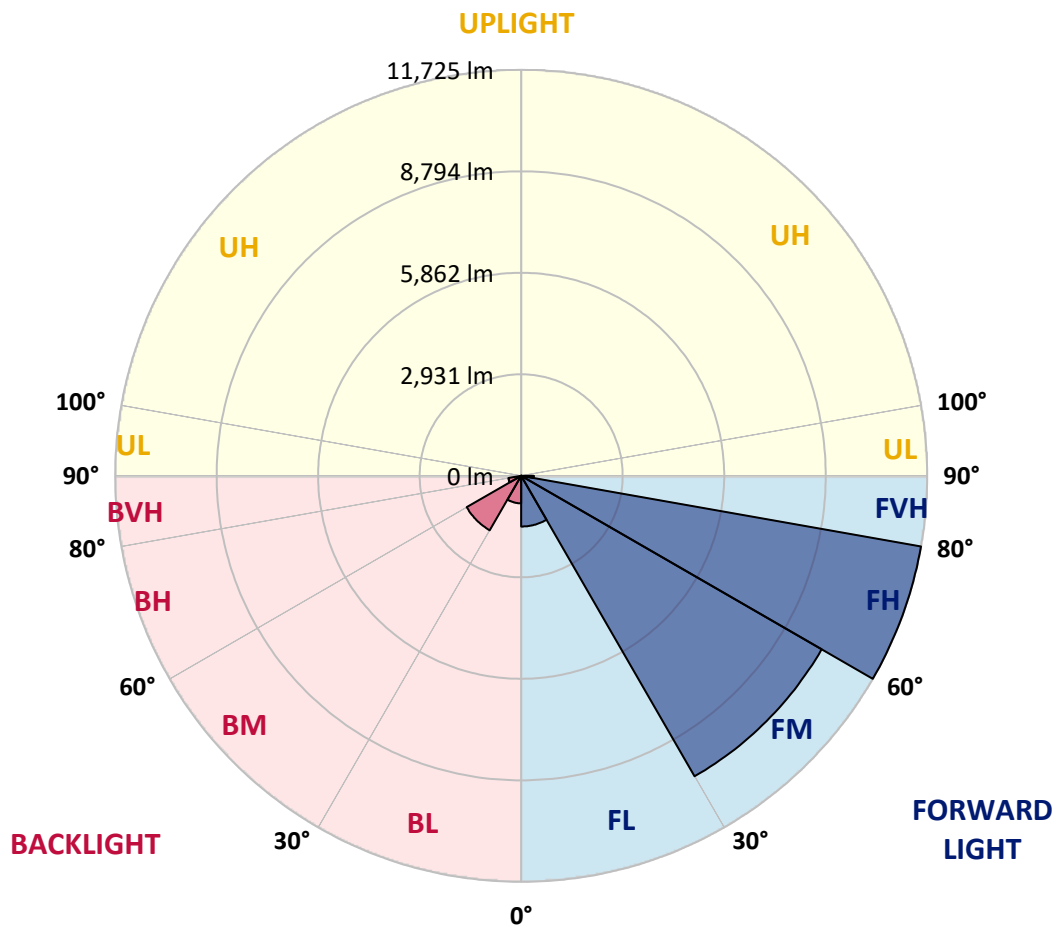
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.6	5.5			
FM	(30°-60°)	10018.8	37.7			
FH	(60°-80°)	11724.8	44.1			G4/12000
FVH	(80°-90°)	369.7	1.4			G3/500
BL	(0°-30°)	794.5	3.0	B2/1000		
BM	(30°-60°)	1815.3	6.8	B2/2500		
BH	(60°-80°)	375.2	1.4	B1/500		G1/500
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6
2.5°	3679.3	3710.4	3716.3	3726.0	3726.0	3737.7	3757.2	3784.4	3829.2	3852.5	3868.1
5°	3391.2	3414.5	3443.7	3467.1	3511.9	3517.7	3593.6	3667.6	3770.8	3848.6	3903.2
7.5°	3101.1	3128.4	3167.3	3223.8	3282.2	3299.7	3414.5	3539.1	3702.6	3848.6	3940.1
10°	2896.7	2898.7	2933.7	2990.1	3083.6	3105.0	3245.2	3422.3	3626.7	3825.3	3975.2
12.5°	2781.8	2795.5	2811.1	2853.9	2943.4	2957.1	3107.0	3315.2	3550.8	3811.7	4016.1
15°	2781.8	2791.6	2801.3	2822.7	2894.8	2906.4	3038.8	3247.1	3511.9	3817.5	4082.3
17.5°	2811.1	2826.6	2818.8	2844.1	2920.1	2927.9	3044.7	3227.6	3509.9	3854.5	4183.5
20°	2881.1	2892.8	2877.2	2892.8	2968.7	2984.3	3105.0	3264.6	3543.0	3918.7	4310.0
22.5°	2992.1	2997.9	2960.9	2972.6	3050.5	3070.0	3210.1	3369.8	3622.8	4021.9	4479.4
25°	3132.3	3143.9	3087.5	3101.1	3175.1	3198.4	3360.0	3527.4	3749.4	4164.0	4695.5
27.5°	3293.8	3299.7	3251.0	3249.1	3344.4	3377.5	3541.1	3722.1	3918.7	4343.1	4968.0
30°	3478.8	3496.3	3449.6	3441.8	3562.5	3589.7	3751.3	3961.6	4167.9	4611.8	5355.4
32.5°	3624.8	3638.4	3611.1	3630.6	3753.3	3774.7	4006.3	4300.3	4559.2	4993.3	5883.0
35°	3835.0	3842.8	3780.5	3815.6	3955.7	4010.2	4354.8	4775.3	5051.7	5472.2	6572.1
37.5°	4596.2	4596.2	4331.4	4158.2	4292.5	4341.2	4831.7	5372.9	5659.1	6114.6	7440.3
40°	5649.4	5631.8	5244.4	4890.1	4872.6	4968.0	5511.1	6126.3	6443.6	6885.5	8417.6
42.5°	6772.6	6745.4	6217.8	5867.4	5809.0	5842.1	6295.7	7054.9	7378.0	7825.8	9468.8
45°	7769.3	7761.5	7278.8	6807.6	6702.5	6807.6	7274.9	8141.1	8372.8	8843.9	10518.1
47.5°	8604.5	8604.5	8252.1	7944.5	7890.0	7952.3	8600.6	9346.2	9324.7	9928.2	11540.1
50°	9566.1	9558.4	9223.5	9091.1	9147.6	9235.2	10126.8	10615.4	10309.8	10993.1	12453.1
52.5°	10239.7	10286.4	10171.6	10150.2	10438.3	10590.1	11676.4	11857.4	11191.6	12003.4	13136.4
55°	10773.1	10827.6	10960.0	11109.9	11664.7	11863.3	13177.3	13035.2	11929.4	12879.4	13529.6
57.5°	11528.4	11450.6	11655.0	11950.9	12848.3	13087.7	14631.5	14146.7	12523.2	13590.0	13572.5
60°	12445.3	12457.0	12492.0	12865.8	14029.9	14337.5	16064.3	15198.0	12904.7	14026.1	13097.5
62.5°	13547.2	13564.7	13636.7	14211.0	15616.5	15906.6	17590.5	16058.4	13079.9	13903.4	11871.0
65°	13471.2	13545.2	14349.2	16313.4	18028.5	18314.7	19371.7	16661.9	12815.2	12782.1	9665.4
67.5°	12272.1	12392.8	13737.9	18824.7	21664.9	21984.2	21524.8	16780.6	11672.5	9939.9	6305.4
70°	10699.1	10742.0	12359.7	21082.9	25875.7	26198.8	23452.0	15474.4	8857.5	5544.2	2824.7
72.5°	8355.3	8365.0	10263.1	21606.5	28161.1	28178.6	21939.4	11487.5	4763.6	2129.7	981.1
75°	5968.6	5910.2	6873.8	17522.3	24775.8	24974.4	16447.8	5388.5	1820.2	1006.4	488.6
77.5°	3200.4	3264.6	3889.5	10391.5	17115.5	17454.2	8974.3	1553.5	926.6	685.2	323.2
80°	988.9	1043.4	1594.4	4757.8	9694.6	9899.0	3326.9	691.1	646.3	488.6	212.2
82.5°	311.5	323.2	743.6	1999.3	4023.9	4117.3	963.6	391.3	441.9	323.2	124.6
85°	89.5	91.5	330.9	745.6	994.8	1014.2	270.6	151.8	253.1	200.5	64.2
87.5°	9.7	31.1	124.6	124.6	87.6	85.7	29.2	33.1	72.0	25.3	11.7
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°	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6	3850.6
2.5°	3858.4	3860.3	3835.0	3792.2	3745.5	3706.5	3657.9	3618.9	3591.7	3583.9	3597.5
5°	3885.6	3872.0	3800.0	3669.5	3513.8	3379.5	3229.6	3110.8	3033.0	2999.9	3011.6
7.5°	3926.5	3887.6	3729.9	3472.9	3175.1	2910.3	2641.7	2433.4	2301.0	2234.8	2244.6
10°	3961.6	3883.7	3613.1	3188.7	2733.2	2332.2	1970.1	1718.9	1578.8	1512.6	1514.5
12.5°	3994.7	3881.7	3461.3	2851.9	2234.8	1744.3	1407.5	1282.9	1243.9	1230.3	1226.4
15°	4056.9	3887.6	3270.5	2466.5	1738.4	1317.9	1195.3	1193.3	1201.1	1197.2	1195.3
17.5°	4142.6	3893.4	3054.4	2057.7	1341.3	1162.2	1156.3	1173.9	1185.5	1179.7	1177.8
20°	4253.6	3916.8	2824.7	1652.8	1152.5	1123.3	1136.9	1152.5	1162.2	1152.5	1150.5
22.5°	4409.3	3957.7	2573.6	1327.7	1092.1	1099.9	1111.6	1129.1	1138.8	1125.2	1123.3
25°	4600.1	4021.9	2326.3	1154.4	1062.9	1072.6	1090.2	1109.6	1121.3	1107.7	1105.7
27.5°	4847.3	4125.1	2098.6	1115.5	1033.7	1039.5	1064.9	1094.1	1109.6	1092.1	1092.1
30°	5205.5	4294.4	1901.9	1133.0	1016.2	1002.6	1037.6	1078.5	1096.0	1080.4	1078.5
32.5°	5680.5	4533.9	1781.2	1160.2	1008.4	959.7	992.8	1045.4	1074.6	1064.9	1064.9
35°	6303.4	4897.9	1734.5	1191.4	1002.6	915.0	938.3	994.8	1045.4	1055.1	1055.1
37.5°	7058.8	5404.1	1748.1	1205.0	985.0	878.0	889.6	938.3	1004.5	1035.7	1043.4
40°	7917.3	5993.9	1826.0	1191.4	965.6	846.8	848.8	885.8	944.2	990.9	1006.4
42.5°	8803.0	6683.1	1970.1	1140.8	948.0	819.6	813.7	839.0	878.0	911.1	924.7
45°	9646.0	7391.7	2112.2	1070.7	926.6	792.3	778.7	788.4	796.2	809.8	817.6
47.5°	10381.8	7890.0	2071.3	1006.4	897.4	761.2	737.8	733.9	710.5	708.6	706.7
50°	10889.9	7999.0	1839.6	942.2	854.6	726.1	689.1	665.8	624.9	605.4	607.4
52.5°	11051.5	7568.8	1502.9	878.0	784.5	679.4	626.8	589.9	539.2	521.7	519.8
55°	10837.3	6725.9	1201.1	800.1	687.2	617.1	558.7	510.0	469.2	447.7	447.7
57.5°	10313.7	5653.2	950.0	708.6	584.0	547.0	488.6	440.0	404.9	383.5	379.6
60°	9445.4	4489.1	751.4	599.6	498.4	471.1	410.8	379.6	348.5	323.2	317.3
62.5°	8127.5	3204.3	589.9	475.0	416.6	385.4	350.4	327.0	290.1	255.0	249.2
65°	6342.4	1960.3	455.5	348.5	334.8	319.3	297.8	276.4	231.7	196.6	190.8
67.5°	4000.5	928.6	325.1	262.8	264.8	257.0	247.2	229.7	196.6	165.5	161.6
70°	1761.8	449.7	214.1	200.5	196.6	196.6	204.4	198.6	167.4	138.2	132.4
72.5°	599.6	241.4	159.6	151.8	142.1	140.2	171.3	165.5	134.3	107.1	101.2
75°	313.4	161.6	116.8	109.0	85.7	103.2	136.3	128.5	95.4	70.1	64.2
77.5°	204.4	114.9	79.8	70.1	48.7	68.1	101.2	89.5	56.5	35.0	31.1
80°	128.5	75.9	46.7	33.1	23.4	37.0	54.5	38.9	21.4	7.8	5.8
82.5°	68.1	38.9	17.5	11.7	9.7	11.7	13.6	9.7	3.9	0.0	0.0
85°	27.3	13.6	5.8	3.9	1.9	0.0	3.9	1.9	0.0	0.0	0.0
87.5°	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)