

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: P953439

Luminaire Tested: **GALN-SB7A-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29532 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 199.1
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

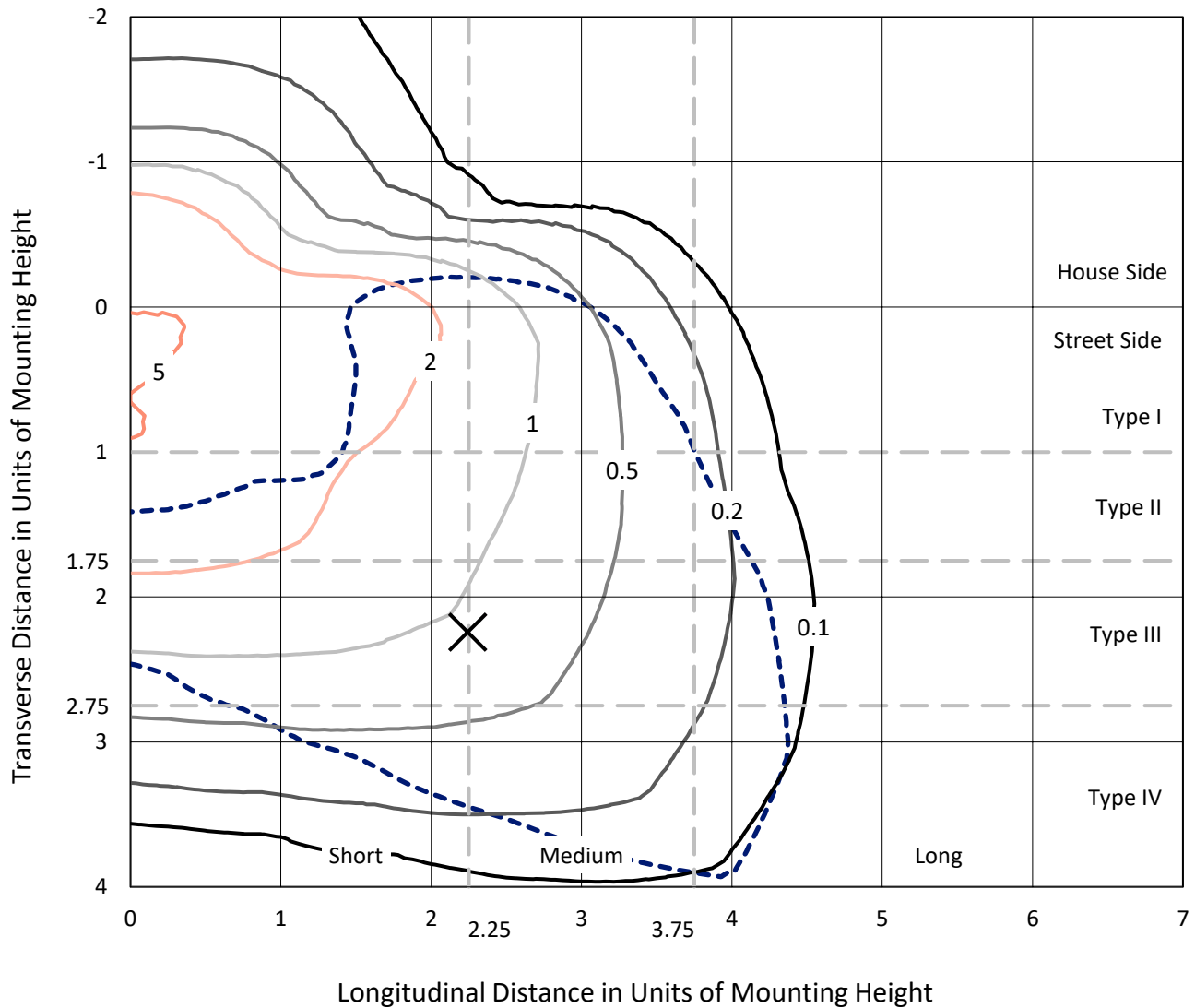


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Iso-Footcandle Lines of Horizontal Illumination

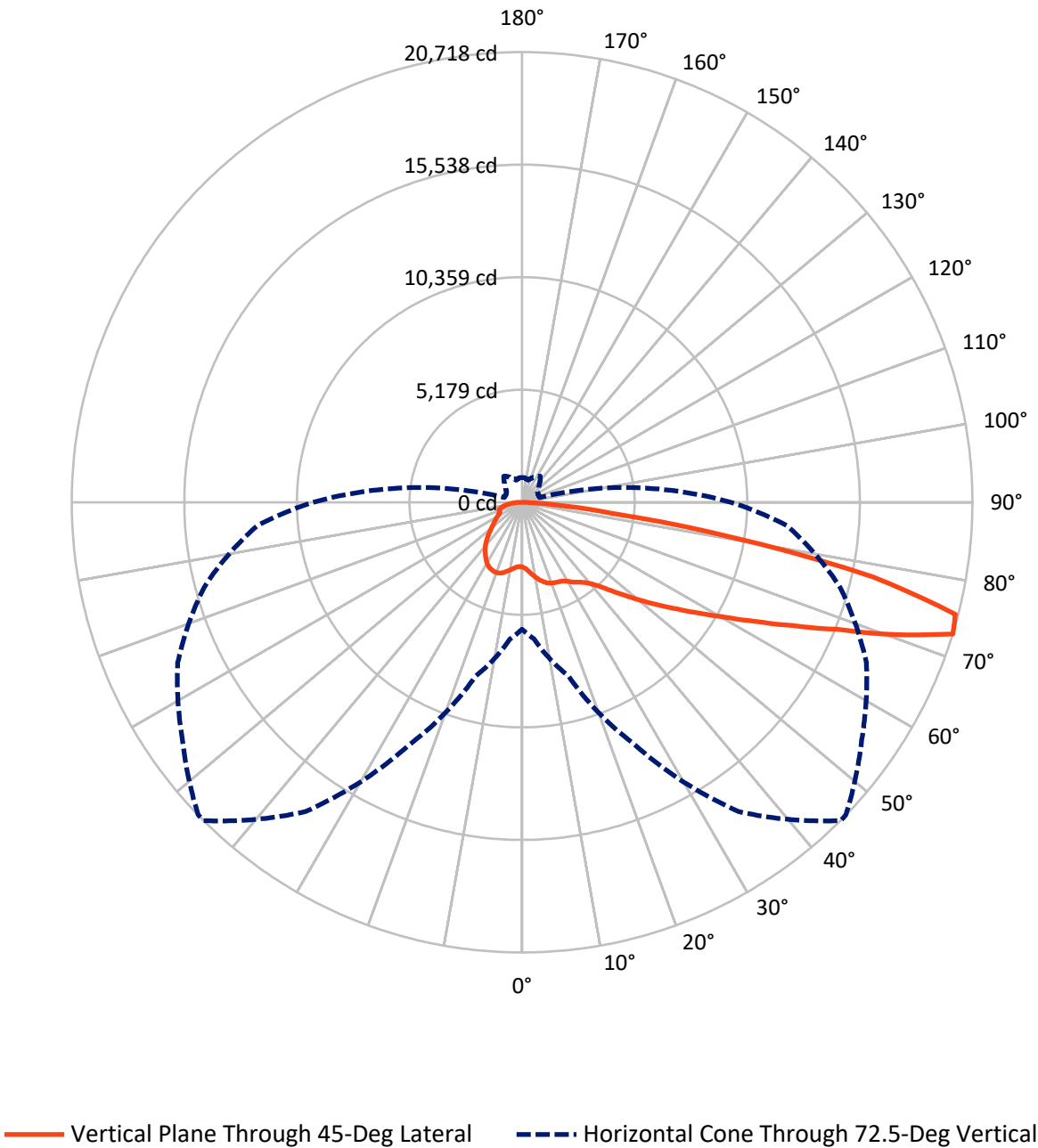
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	6676.2	0.0	6676.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22855.8	0.0	22855.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	29532.0	0.0	29532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	1.0
10°-20°	1011.0	3.4
20°-30°	1758.7	6.0
30°-40°	2521.2	8.5
40°-50°	3549.9	12.0
50°-60°	5437.4	18.4
60°-70°	7876.9	26.7
70°-80°	6290.2	21.3
80°-90°	783.4	2.7
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°	29532.0	100.0
0°-180°	29532.0	100.0

Coefficient of Utilization



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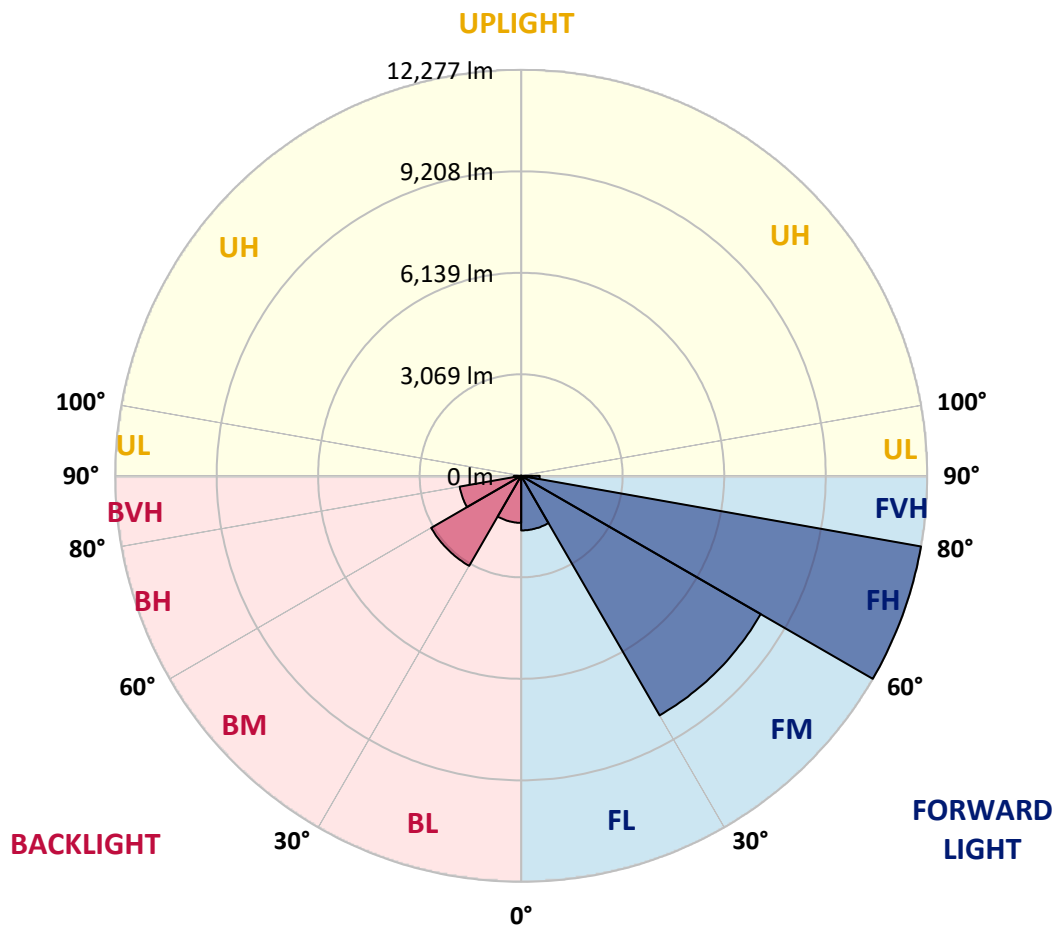
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1651.5	5.6			
FM	(30°-60°)	8365.0	28.3			
FH	(60°-80°)	12277.3	41.6			G5
FVH	(80°-90°)	562.0	1.9			G4/750
BL	(0°-30°)	1421.4	4.8	B3/2500		
BM	(30°-60°)	3143.5	10.6	B3/5000		
BH	(60°-80°)	1889.8	6.4	B3/2500		G3/2500
BVH	(80°-90°)	221.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2
2.5°	3095.9	3116.1	3097.4	3080.3	3072.5	3052.3	3050.8	3038.3	3030.5	3008.8	3002.5
5°	3312.1	3338.6	3307.5	3273.2	3242.1	3192.3	3186.1	3150.3	3109.9	3063.2	3036.8
7.5°	3556.4	3579.7	3543.9	3492.6	3438.1	3355.7	3354.1	3288.8	3225.0	3145.7	3100.6
10°	3769.5	3800.6	3752.4	3682.4	3613.9	3520.6	3509.7	3435.0	3354.1	3251.5	3183.0
12.5°	3957.8	3979.5	3932.9	3847.3	3768.0	3674.6	3660.6	3578.2	3487.9	3371.2	3284.1
15°	4107.1	4135.1	4072.9	3981.1	3897.1	3805.3	3792.8	3718.2	3627.9	3505.0	3393.0
17.5°	4205.1	4228.4	4164.7	4062.0	3981.1	3904.9	3895.5	3833.3	3754.0	3629.5	3509.7
20°	4242.4	4267.3	4200.4	4096.2	4021.5	3962.4	3957.8	3912.6	3858.2	3744.6	3623.3
22.5°	4279.8	4303.1	4216.0	4107.1	4041.8	4004.4	4002.9	3973.3	3951.5	3858.2	3740.0
25°	4430.7	4436.9	4320.2	4163.1	4069.8	4037.1	4035.5	4034.0	4043.3	3970.2	3866.0
27.5°	4561.4	4559.8	4460.2	4312.5	4167.8	4099.3	4097.8	4113.3	4142.9	4082.2	3996.6
30°	4752.7	4735.6	4617.4	4463.4	4331.1	4225.3	4216.0	4202.0	4225.3	4177.1	4127.3
32.5°	5158.8	5104.3	4913.0	4639.2	4466.5	4385.6	4373.1	4286.0	4295.3	4265.8	4240.9
35°	5740.6	5669.0	5413.9	4972.1	4634.5	4519.4	4513.1	4402.7	4384.0	4357.6	4366.9
37.5°	6432.9	6344.2	6047.1	5454.4	4923.9	4674.9	4665.6	4566.0	4489.8	4461.8	4514.7
40°	7128.3	7016.3	6770.5	6042.4	5350.1	4934.7	4905.2	4754.3	4667.2	4620.5	4732.5
42.5°	7803.5	7710.1	7500.1	6702.0	5876.0	5314.3	5249.0	4990.8	4925.4	4881.8	5084.1
45°	8400.9	8316.9	8162.9	7406.8	6492.0	5830.8	5767.1	5345.5	5325.2	5325.2	5617.7
47.5°	8886.3	8867.6	8704.3	8125.5	7218.5	6418.9	6308.4	5838.6	5893.1	5977.1	6375.3
50°	9424.6	9373.2	9199.0	8833.4	8072.6	7092.5	7002.3	6443.8	6647.6	6877.8	7470.6
52.5°	9919.3	9947.3	9752.8	9570.8	9037.2	7843.9	7685.3	7157.9	7598.1	7979.3	8754.0
55°	10428.0	10429.5	10375.1	10350.2	10048.4	8674.7	8500.5	8016.6	8716.7	9189.6	10250.6
57.5°	10905.6	10908.7	10989.6	11209.0	11221.4	9633.0	9435.4	9071.4	9959.7	10442.0	11793.9
60°	11331.9	11353.6	11574.6	12087.9	12252.9	10731.4	10544.7	10317.5	11244.7	11730.1	13416.5
62.5°	11475.0	11554.3	12045.9	12775.6	13271.8	12078.6	11895.0	11759.7	12595.1	13046.3	14773.1
65°	11232.3	11414.3	12364.9	13343.4	14320.4	13679.4	13497.4	13349.6	13998.4	14423.1	15887.0
67.5°	10636.5	10871.4	12346.2	13939.3	15593.0	15605.4	15435.9	15088.9	15502.8	15666.1	16249.5
70°	9066.7	9418.3	11258.7	14161.7	17053.8	18239.3	18075.9	17182.9	17004.0	16213.7	15228.9
72.5°	5841.7	6314.7	8290.4	12330.6	17378.9	20717.5	20708.2	19073.1	17478.5	15149.6	12214.0
75°	2131.3	2420.7	3852.0	7739.7	14588.0	20591.5	20652.2	18749.5	15955.5	11702.1	7609.0
77.5°	776.3	849.4	1257.0	2974.5	8971.8	16521.7	16647.8	14989.4	11356.8	5872.8	3015.0
80°	407.6	448.0	644.1	1154.3	3844.2	9811.9	10009.5	8908.1	5337.7	1768.9	903.9
82.5°	225.6	244.2	360.9	627.0	1731.5	4195.8	4314.0	3519.0	1877.8	749.9	373.4
85°	121.3	129.1	169.6	342.3	846.3	1454.6	1487.3	1051.7	748.3	440.3	180.5
87.5°	35.8	43.6	56.0	108.9	331.4	326.7	334.5	208.5	295.6	222.5	59.1
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°	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2
2.5°	2993.2	2988.5	2971.4	2963.6	2954.3	2952.8	2960.5	2962.1	2963.6	2965.2	2971.4
5°	3021.2	3005.7	2990.1	2980.8	2983.9	2985.4	3001.0	3011.9	3019.7	3025.9	3029.0
7.5°	3075.7	3063.2	3036.8	3035.2	3039.9	3053.9	3074.1	3099.0	3113.0	3123.9	3127.0
10°	3156.6	3133.2	3102.1	3106.8	3116.1	3136.3	3178.3	3198.6	3221.9	3242.1	3237.5
12.5°	3239.0	3218.8	3183.0	3186.1	3201.7	3237.5	3277.9	3302.8	3318.4	3333.9	3340.1
15°	3346.4	3310.6	3271.7	3271.7	3299.7	3338.6	3357.2	3377.5	3386.8	3403.9	3410.1
17.5°	3456.8	3410.1	3358.8	3355.7	3389.9	3408.6	3419.5	3422.6	3425.7	3444.4	3450.6
20°	3567.3	3515.9	3442.8	3436.6	3444.4	3441.3	3439.7	3436.6	3441.3	3464.6	3473.9
22.5°	3676.2	3617.0	3515.9	3487.9	3466.1	3436.6	3435.0	3433.5	3436.6	3459.9	3475.5
25°	3803.7	3732.2	3596.8	3512.8	3439.7	3399.2	3403.9	3405.5	3408.6	3427.3	3452.1
27.5°	3942.2	3862.9	3671.5	3505.0	3372.8	3344.8	3337.0	3341.7	3352.6	3382.1	3411.7
30°	4080.7	3987.3	3740.0	3473.9	3288.8	3249.9	3225.0	3235.9	3270.1	3299.7	3332.4
32.5°	4206.7	4113.3	3794.4	3405.5	3181.4	3120.8	3088.1	3102.1	3136.3	3147.2	3186.1
35°	4354.5	4248.7	3817.7	3296.6	3064.8	2971.4	2927.9	2907.6	2924.8	2913.9	2948.1
37.5°	4519.4	4408.9	3814.6	3153.4	2927.9	2820.5	2759.8	2683.6	2647.8	2610.5	2633.8
40°	4763.6	4604.9	3777.3	2980.8	2758.3	2660.3	2551.4	2422.3	2341.4	2268.2	2272.9
42.5°	5096.5	4877.2	3708.8	2791.0	2566.9	2475.2	2327.4	2176.5	2048.9	1927.5	1916.6
45°	5592.8	5233.4	3623.3	2588.7	2360.0	2269.8	2109.6	1940.0	1795.3	1639.7	1621.1
47.5°	6308.4	5712.6	3542.4	2358.5	2142.2	2059.8	1915.1	1758.0	1586.8	1435.9	1418.8
50°	7291.7	6400.2	3467.7	2134.4	1927.5	1865.3	1750.2	1589.9	1417.3	1295.9	1288.1
52.5°	8542.5	7335.2	3436.6	1918.2	1726.8	1703.5	1611.7	1462.4	1299.0	1196.3	1188.6
55°	9978.4	8453.8	3436.6	1711.3	1551.1	1558.8	1495.0	1356.6	1215.0	1123.2	1113.9
57.5°	11443.9	9586.3	3374.4	1519.9	1401.7	1434.4	1393.9	1272.6	1145.0	1050.1	1034.6
60°	12794.2	10535.3	3122.3	1345.7	1269.5	1320.8	1294.4	1190.1	1034.6	955.2	942.8
62.5°	13831.9	11070.5	2636.9	1207.2	1160.6	1219.7	1205.7	1081.2	1014.3	981.7	970.8
65°	14351.5	10983.4	2016.2	1084.3	1068.8	1160.6	1131.0	1126.3	1073.4	1036.1	1023.7
67.5°	14032.6	10233.5	1462.4	994.1	1015.9	1106.1	1219.7	1238.4	1140.3	1067.2	1054.8
70°	12634.0	8876.9	1089.0	908.5	949.0	1107.7	1390.8	1295.9	1118.6	1033.0	1019.0
72.5°	9611.2	6619.6	844.8	818.3	861.9	1115.5	1467.0	1269.5	1056.3	1141.9	1132.6
75°	5496.4	3634.2	678.3	707.9	753.0	1042.3	1428.2	1201.0	1008.1	1048.6	1048.6
77.5°	2095.6	1397.0	560.1	599.0	605.2	910.1	1365.9	1196.3	959.9	936.5	854.1
80°	726.5	546.1	463.6	476.1	468.3	809.0	1309.9	1040.8	785.6	703.2	679.8
82.5°	297.1	272.3	367.1	351.6	332.9	628.5	1057.9	851.0	642.5	567.8	561.6
85°	129.1	172.7	242.7	213.1	192.9	435.6	847.9	720.3	542.9	468.3	466.7
87.5°	26.4	65.3	102.7	96.5	99.6	290.9	602.1	511.8	384.3	287.8	225.6
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)