

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: P954141

Luminaire Tested: **GALN-SB7C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48281 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - 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

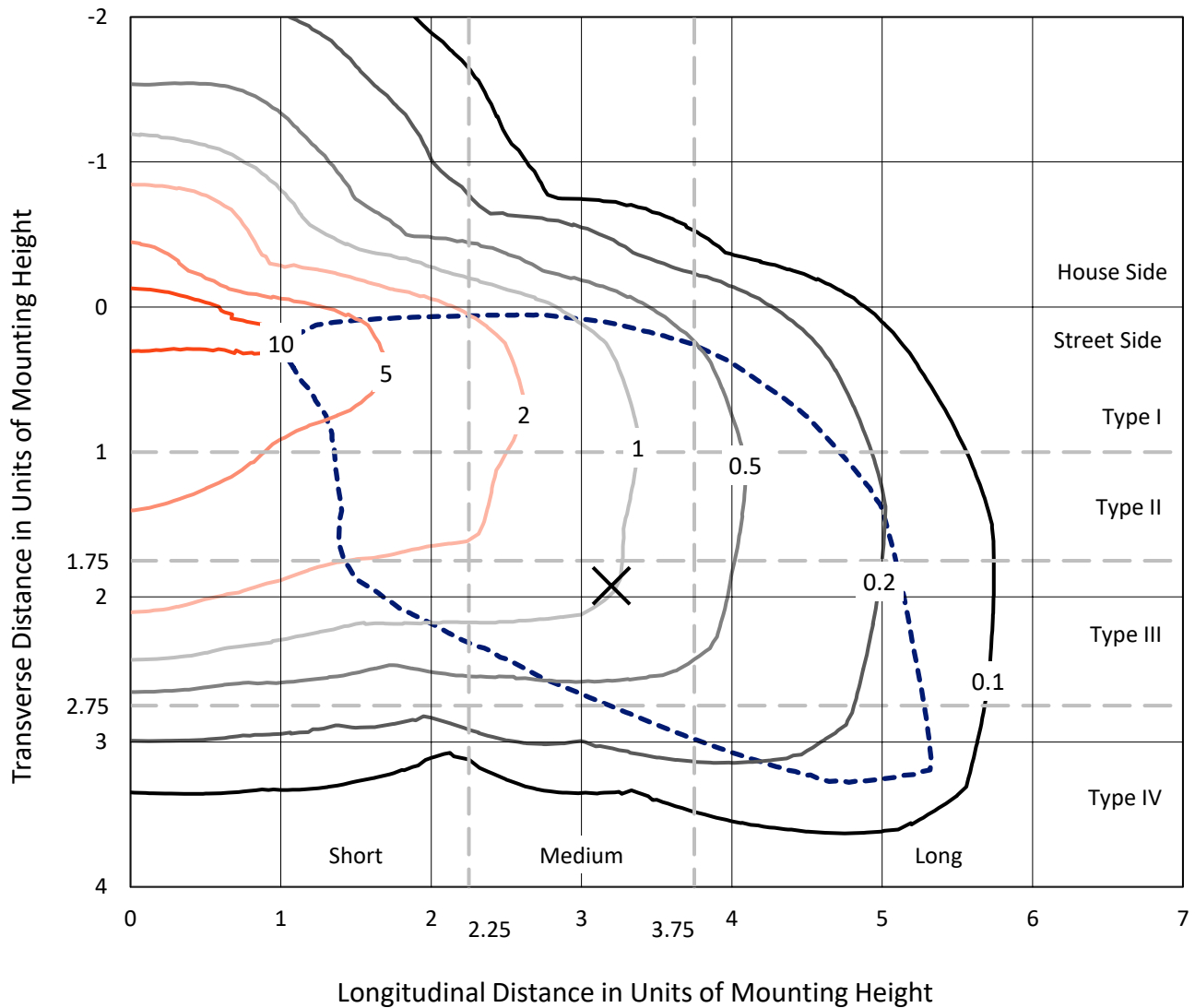


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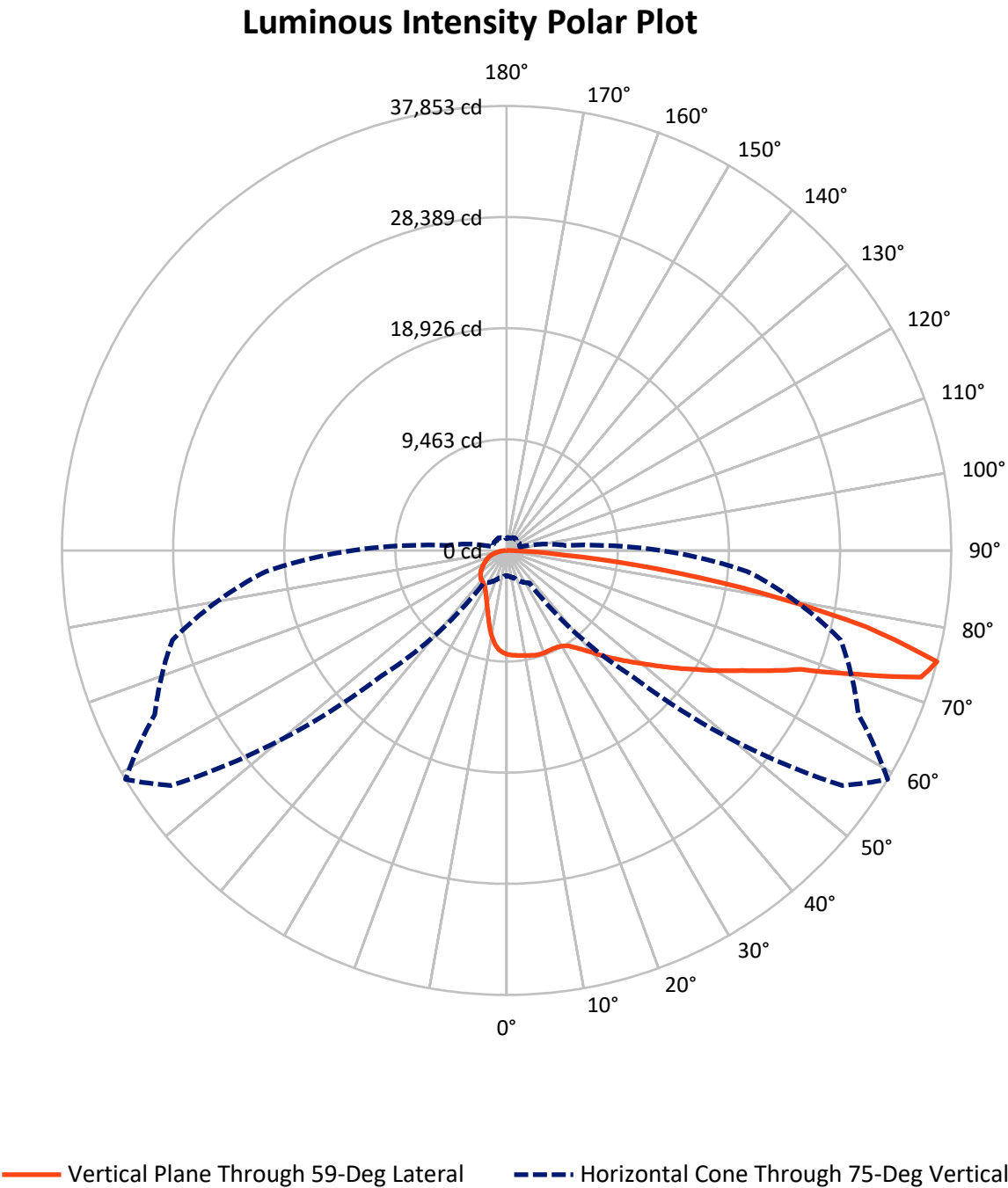
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
Type IV - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9055.4	0.0	9055.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	39225.6	0.0	39225.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	48281.0	0.0	48281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.6	1.6
10°-20°	2031.1	4.2
20°-30°	3085.0	6.4
30°-40°	4585.8	9.5
40°-50°	6819.9	14.1
50°-60°	9257.2	19.2
60°-70°	11301.6	23.4
70°-80°	8869.3	18.4
80°-90°	1536.4	3.2
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°	48281.0	100.0
0°-180°	48281.0	100.0

Coefficient of Utilization



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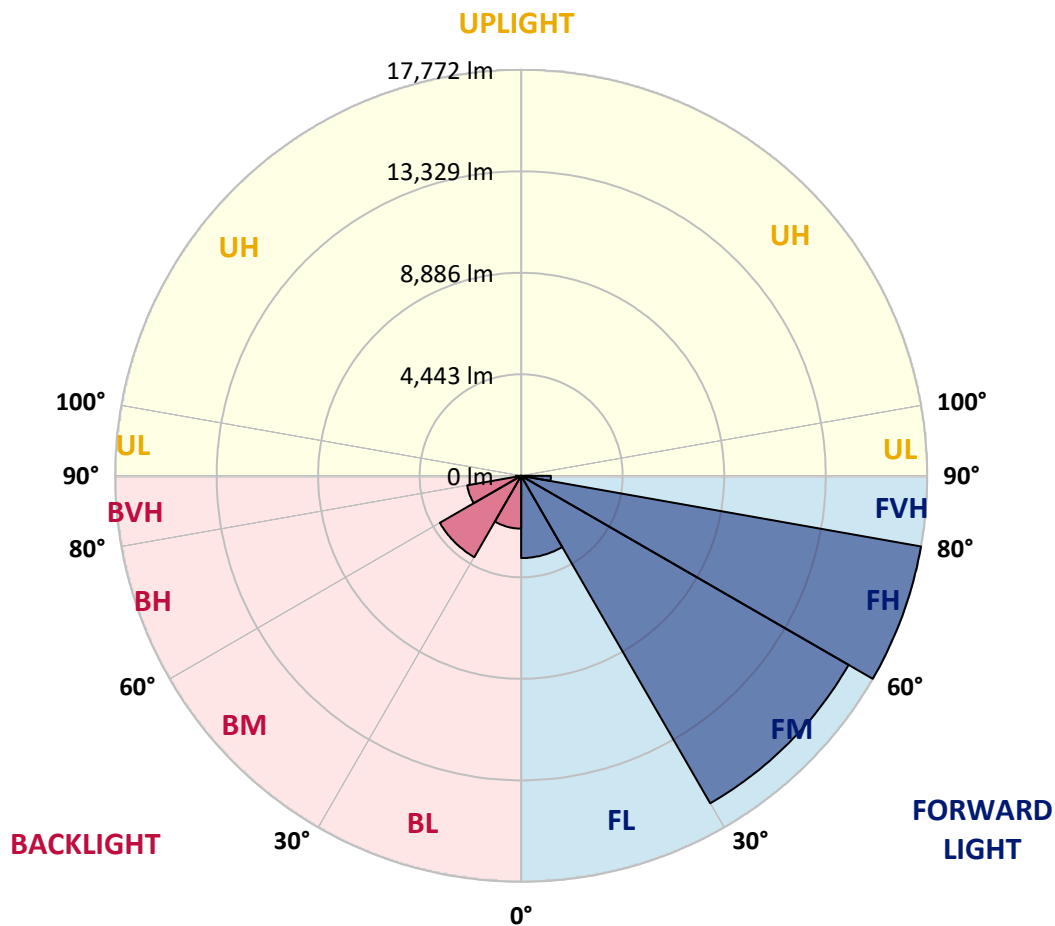
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3599.9	7.5			
FM	(30°-60°)	16552.7	34.3			
FH	(60°-80°)	17771.8	36.8			G5
FVH	(80°-90°)	1301.2	2.7			G5
BL	(0°-30°)	2310.8	4.8	B3/2500		
BM	(30°-60°)	4110.3	8.5	B3/5000		
BH	(60°-80°)	2399.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	235.2	0.5			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9
2.5°	8937.2	8906.0	8937.2	8924.2	8919.0	8908.6	8911.2	8929.4	8919.0	8932.0	8887.8
5°	8877.5	8859.3	8890.4	8882.6	8916.4	8921.6	8955.4	8976.1	8989.1	8991.7	8958.0
7.5°	8778.8	8760.6	8804.7	8841.1	8913.8	8934.6	9004.7	9038.5	9056.7	9087.8	9038.5
10°	8417.7	8409.9	8519.0	8656.7	8828.1	8934.6	9041.1	9098.2	9126.8	9209.9	9152.8
12.5°	7778.8	7789.2	7932.0	8197.0	8539.8	8882.6	9082.6	9165.8	9209.9	9313.8	9287.8
15°	7168.5	7165.9	7321.7	7604.8	8085.3	8654.1	9103.4	9246.3	9321.6	9474.8	9454.0
17.5°	6815.2	6804.8	6913.9	7129.5	7576.2	8303.5	9051.5	9290.4	9451.4	9643.6	9625.5
20°	6750.3	6729.5	6786.7	6893.1	7210.0	7919.1	8916.4	9290.4	9555.3	9804.7	9794.3
22.5°	6986.6	6952.9	6929.5	6916.5	7056.8	7602.2	8763.2	9259.3	9708.6	10035.8	10017.7
25°	7461.9	7410.0	7290.5	7173.6	7132.1	7459.3	8628.1	9251.5	9937.1	10347.5	10280.0
27.5°	8230.7	8165.8	7924.3	7643.8	7391.8	7532.1	8568.4	9298.2	10189.1	10677.4	10542.3
30°	9183.9	9113.8	8809.9	8378.8	7926.9	7802.2	8643.7	9435.9	10511.1	11116.3	10851.4
32.5°	10038.4	9960.5	9700.8	9261.8	8651.5	8269.7	8882.6	9698.2	11017.6	11726.7	11316.3
35°	10796.8	10705.9	10472.2	10067.0	9539.8	8926.8	9313.8	10163.1	11737.0	12718.8	11947.4
37.5°	11539.7	11433.2	11178.6	10750.1	10381.3	9802.1	9908.6	10760.5	12692.8	13923.9	12783.7
40°	12370.8	12217.5	11908.5	11485.1	11126.7	10828.0	10690.3	11492.9	13664.2	15269.3	13827.8
42.5°	13175.9	13030.5	12661.7	12300.6	11851.3	11765.6	11596.8	12350.0	14726.5	16747.2	14887.5
45°	14043.4	13869.4	13422.7	12965.5	12682.4	12389.0	12474.7	13207.1	15768.0	18253.6	15999.2
47.5°	14856.4	14661.6	14134.3	13625.3	13469.4	12913.6	13279.8	14149.9	16851.1	19780.8	17100.4
50°	15295.3	15103.1	14664.2	14204.4	14082.4	13560.3	14152.5	15186.2	17986.1	21302.8	18157.5
52.5°	15661.5	15453.7	14879.7	14625.2	14588.8	14264.2	15227.8	16370.6	19121.1	22648.2	19178.2
55°	16051.1	15819.9	15087.5	14859.0	15025.2	15053.8	16503.0	17713.4	20321.0	23959.8	20141.8
57.5°	16500.4	16206.9	15287.5	15056.3	15451.1	15978.4	17967.9	19105.5	21500.2	25175.3	20998.9
60°	16923.8	16627.7	15671.9	15370.6	15910.8	17051.0	19648.3	20791.1	22835.2	26258.4	21809.2
62.5°	17006.9	16762.8	15978.4	15975.8	16534.2	18302.9	21637.8	22492.3	24001.3	27328.4	22536.5
65°	15568.0	15414.8	14949.9	15952.4	17427.7	20105.4	23853.3	24668.8	25484.4	28263.4	23175.4
67.5°	11848.7	11869.5	11835.7	13770.7	16705.6	22694.9	27060.9	26998.6	27315.4	29312.7	23910.4
70°	5417.9	5540.0	6334.7	9506.0	13383.7	22993.6	32364.5	31556.8	29614.0	30671.1	24546.8
72.5°	2927.1	3020.6	3345.3	4605.0	8046.3	20443.1	36328.0	36901.9	32671.0	31585.3	23848.1
75°	2147.9	2199.9	2425.8	2927.1	3379.0	15194.0	34907.2	37852.5	33052.8	29453.0	20593.7
77.5°	1607.7	1631.1	1815.5	2319.4	1729.8	8010.0	27892.0	31349.0	28294.6	24198.7	15212.2
80°	1166.2	1192.1	1329.8	1740.2	1212.9	2929.7	19152.2	22004.0	19378.2	15425.2	7581.4
82.5°	805.2	815.5	875.3	1184.4	846.7	1137.6	10867.0	12903.2	10817.6	5412.7	2046.6
85°	485.7	498.7	524.6	690.9	480.5	540.2	4690.7	4851.7	3233.6	1293.4	636.3
87.5°	200.0	213.0	233.8	290.9	189.6	150.6	774.0	971.4	605.2	379.2	197.4
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°	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9	8861.9
2.5°	8874.9	8856.7	8807.3	8739.8	8677.5	8599.5	8565.8	8537.2	8511.2	8461.9	8438.5
5°	8929.4	8880.1	8747.6	8576.2	8381.4	8168.4	7960.6	7817.8	7695.7	7604.8	7529.5
7.5°	9012.5	8919.0	8677.5	8326.8	7880.1	7423.0	7010.0	6716.5	6495.8	6415.2	6275.0
10°	9098.2	8986.5	8565.8	7947.6	7176.2	6472.4	5924.4	5623.1	5446.5	5389.3	5301.0
12.5°	9199.5	9035.9	8391.8	7420.4	6389.3	5617.9	5140.0	4963.4	4872.5	4841.3	4849.1
15°	9347.6	9077.4	8129.4	6760.7	5638.7	4994.5	4685.5	4563.4	4516.6	4514.0	4524.4
17.5°	9459.2	9085.2	7721.7	6054.2	5062.1	4617.9	4363.4	4316.7	4347.8	4394.6	4412.8
20°	9583.9	9015.1	7186.6	5410.1	4656.9	4288.1	4181.6	4212.8	4288.1	4355.6	4379.0
22.5°	9672.2	8887.8	6539.9	4908.8	4306.3	4098.5	4093.3	4158.2	4199.8	4233.5	4251.7
25°	9750.1	8672.3	5854.2	4488.1	4018.0	3984.2	4041.3	4020.6	3992.0	4020.6	4038.7
27.5°	9807.3	8332.0	5241.3	4119.3	3815.4	3906.3	3872.5	3825.8	3823.2	3838.8	3864.7
30°	9789.1	7877.5	4737.4	3768.6	3672.5	3760.8	3680.3	3672.5	3664.7	3672.5	3701.1
32.5°	9789.1	7360.7	4350.4	3527.1	3581.6	3547.9	3540.1	3521.9	3490.7	3488.1	3521.9
35°	9843.6	6843.8	4018.0	3397.2	3506.3	3425.8	3431.0	3386.8	3321.9	3290.7	3321.9
37.5°	9955.3	6428.2	3688.1	3334.9	3373.8	3371.3	3350.5	3275.2	3160.9	3062.2	3095.9
40°	10225.4	6306.2	3462.2	3306.3	3311.5	3342.7	3288.1	3142.7	2883.0	2721.9	2742.7
42.5°	10648.8	6511.3	3412.8	3236.2	3270.0	3301.1	3194.6	2857.0	2672.6	2576.5	2576.5
45°	11186.4	6869.8	3519.3	3134.9	3171.3	3225.8	2908.9	2747.9	2664.8	2667.4	2680.4
47.5°	11866.9	7246.4	3716.7	3046.6	3028.4	3059.6	2719.3	2620.6	2506.4	2534.9	2607.7
50°	12653.9	7628.2	3903.7	2927.1	2870.0	2768.7	2597.3	2503.8	2358.3	2290.8	2309.0
52.5°	13505.8	7997.0	3979.0	2781.7	2698.6	2581.7	2514.2	2399.9	2223.3	2111.6	2109.0
55°	14313.5	8332.0	3895.9	2607.7	2527.1	2436.2	2425.8	2355.7	2166.1	2010.3	2010.3
57.5°	15077.1	8612.5	3688.1	2431.0	2353.1	2298.6	2368.7	2334.9	2096.0	1896.0	1885.6
60°	15723.8	8804.7	3386.8	2251.8	2197.3	2168.7	2275.2	2264.8	1997.3	1773.9	1766.1
62.5°	16238.1	8880.1	3054.4	2080.4	2067.4	2015.5	2145.3	2145.3	1872.6	1654.5	1646.7
65°	16640.7	8807.3	2716.7	1911.6	1937.6	1859.6	1986.9	1971.3	1740.2	1548.0	1537.6
67.5°	16996.5	8568.4	2342.7	1745.4	1805.1	1706.4	1820.7	1784.3	1594.7	1441.5	1431.1
70°	17154.9	8012.6	1916.8	1579.1	1651.9	1555.8	1654.5	1586.9	1431.1	1327.2	1306.4
72.5°	15882.3	6659.4	1509.0	1405.1	1467.5	1389.5	1475.2	1397.3	1254.5	1207.7	1168.8
75°	13139.6	4997.1	1161.0	1215.5	1262.3	1202.5	1259.7	1202.5	1072.7	1106.4	1010.3
77.5°	9542.4	3373.8	888.3	1015.5	1036.3	1005.1	1054.5	989.6	872.7	864.9	825.9
80°	4745.2	1976.5	696.1	802.6	794.8	774.0	831.1	800.0	701.3	742.8	735.0
82.5°	1374.0	846.7	506.5	563.6	548.0	553.2	594.8	610.4	914.2	906.4	927.2
85°	431.1	332.4	303.9	314.3	298.7	306.5	350.6	696.1	644.1	376.6	407.8
87.5°	111.7	114.3	75.3	80.5	83.1	98.7	111.7	423.4	202.6	132.5	140.3
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)