

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: P954136

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
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-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50242 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

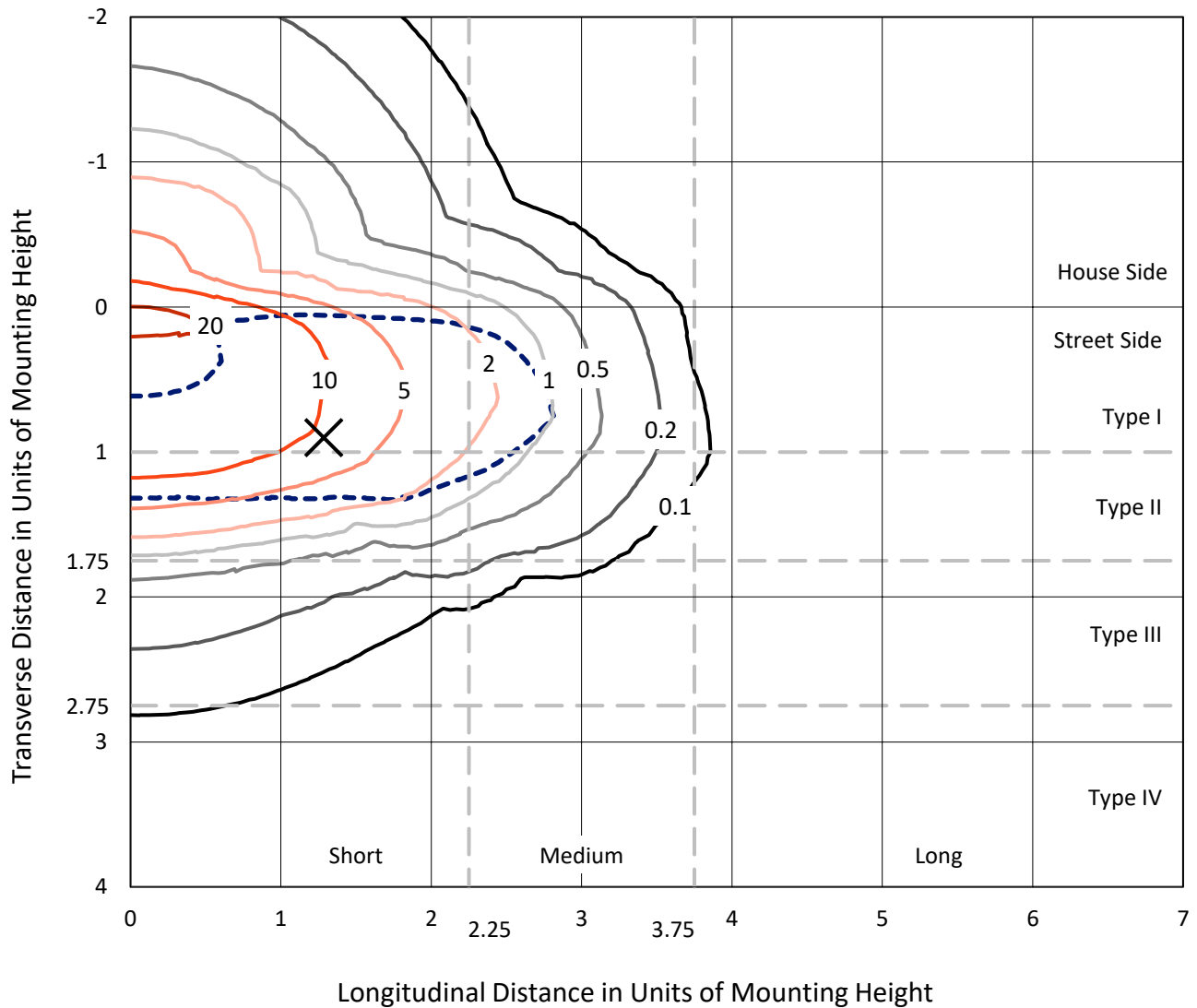
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

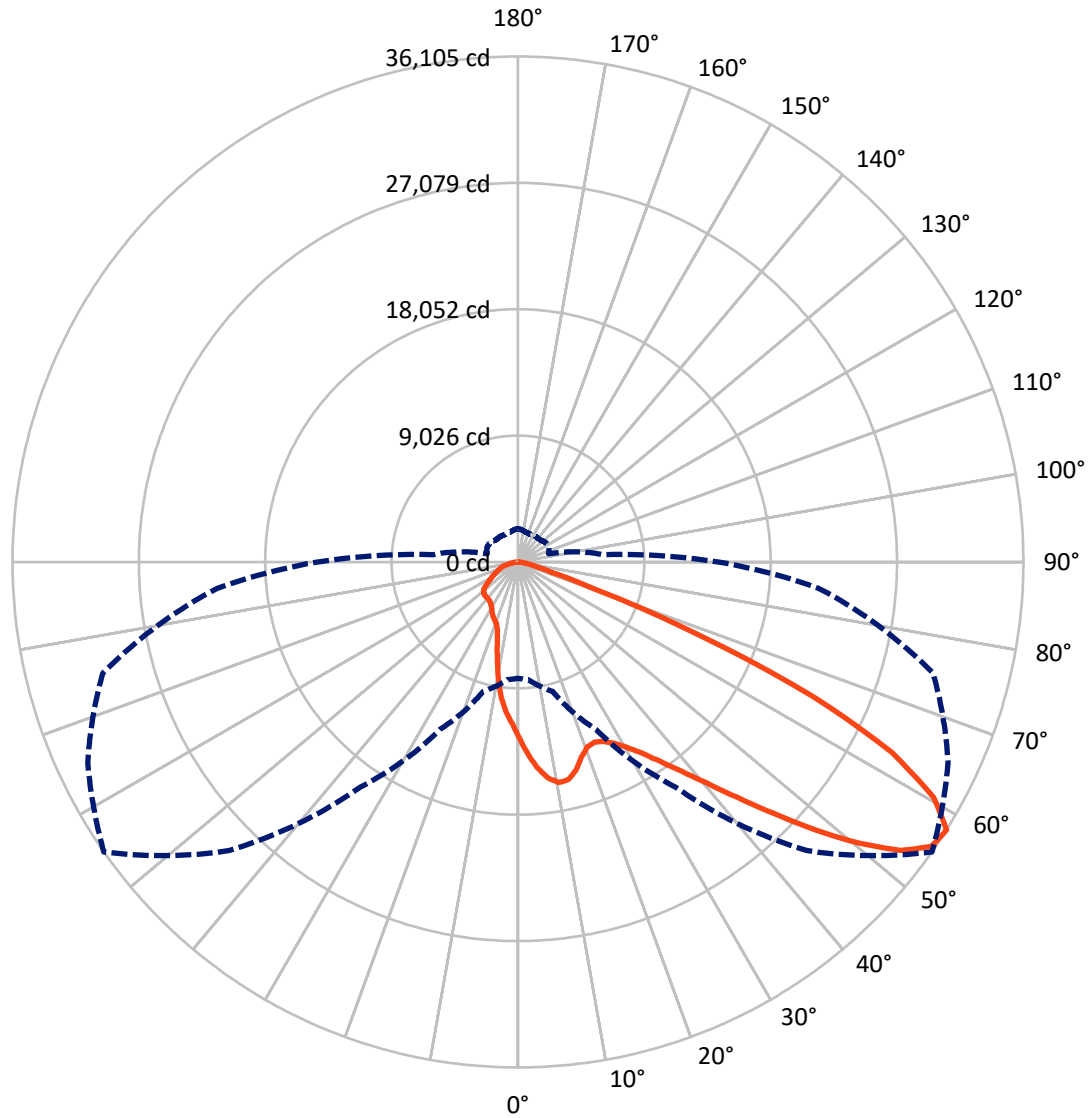
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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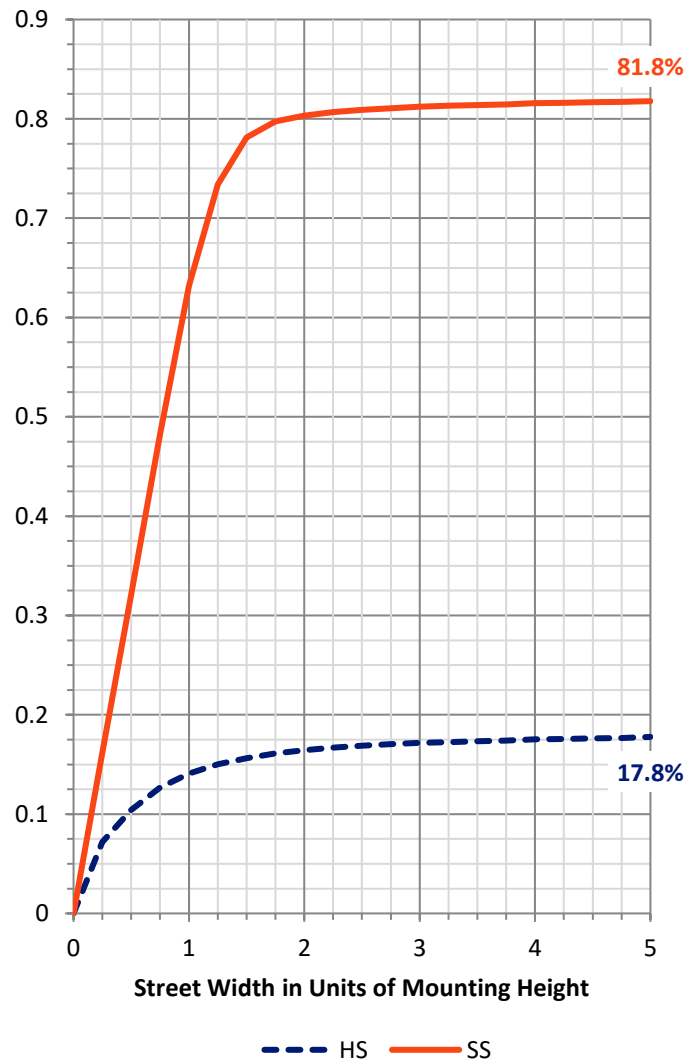
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9091.0	0.0	9091.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41151.0	0.0	41151.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	50242.0	0.0	50242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1168.2	2.3
10°-20°	2948.6	5.9
20°-30°	4705.1	9.4
30°-40°	7449.3	14.8
40°-50°	11401.9	22.7
50°-60°	12212.5	24.3
60°-70°	7682.9	15.3
70°-80°	2272.0	4.5
80°-90°	401.7	0.8
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°	50242.0	100.0
0°-180°	50242.0	100.0

Coefficient of Utilization



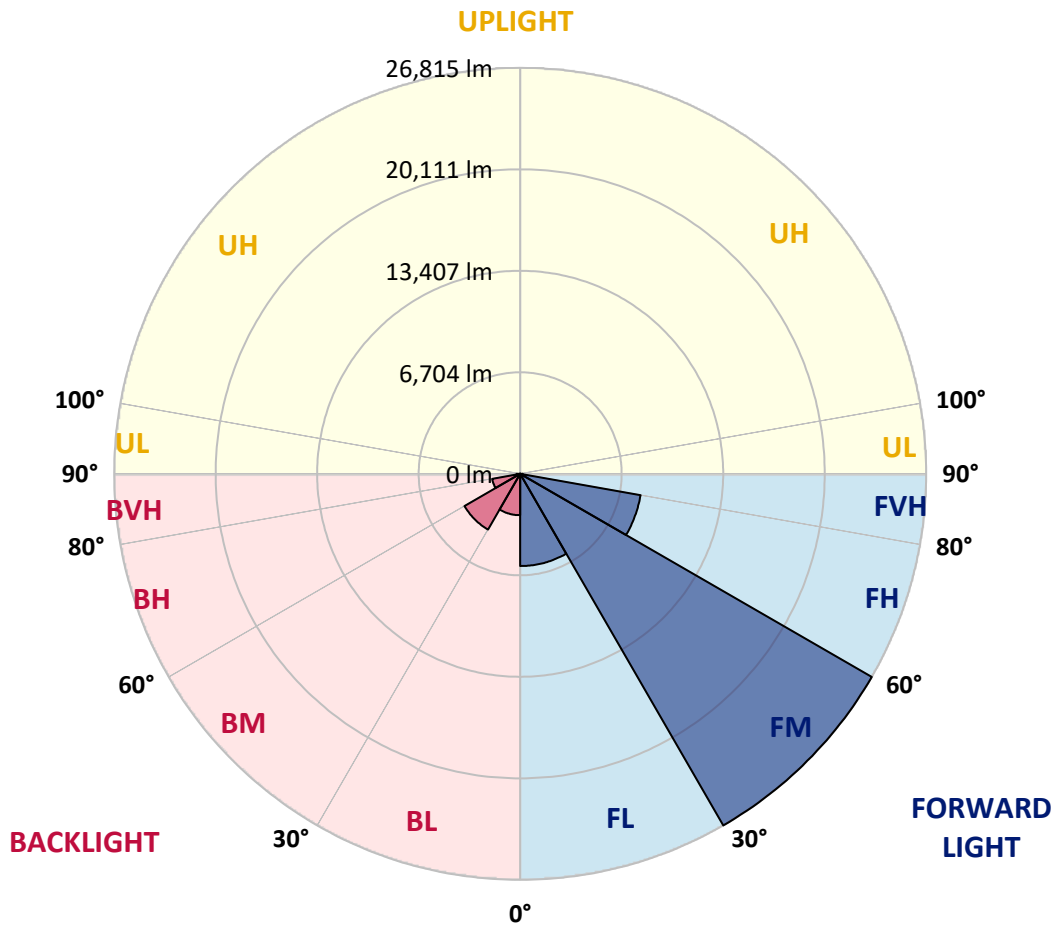
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6089.3	12.1			
FM (30°-60°)	26814.5	53.4			
FH (60°-80°)	8077.4	16.1			G4/12000
FVH (80°-90°)	169.7	0.3			G2/225
BL (0°-30°)	2732.5	5.4	B4/5000		
BM (30°-60°)	4249.1	8.5	B3/5000		
BH (60°-80°)	1877.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	232.0	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0
2.5°	14443.5	14433.1	14490.2	14295.4	14163.0	13983.8	13747.4	13446.1	13121.5	12778.6	12630.6
5°	15744.7	15653.8	15713.5	15568.1	15422.6	15152.5	14801.9	14311.0	13711.0	13028.0	12664.3
7.5°	15539.5	15477.2	15630.4	15760.3	15869.4	15835.6	15578.5	15064.2	14290.2	13298.1	12770.8
10°	13885.1	13814.9	14030.5	14479.8	15139.5	15713.5	16025.2	15705.7	14882.4	13594.2	12874.7
12.5°	12425.4	12391.6	12534.5	12898.1	13630.5	14731.8	15968.1	16266.8	15498.0	13944.8	13015.0
15°	11802.0	11760.5	11851.4	12035.8	12503.3	13529.2	15448.6	16651.2	16103.1	14350.0	13238.3
17.5°	11664.4	11617.6	11656.6	11752.7	12054.0	12835.8	14664.2	16840.8	16734.3	14801.9	13425.3
20°	11918.9	11880.0	11885.2	11880.0	12090.3	12711.1	14118.8	16768.0	17284.9	15217.5	13607.1
22.5°	12534.5	12469.5	12472.1	12334.5	12448.8	12929.3	13976.0	16573.2	17775.8	15581.1	13744.8
25°	13537.0	13420.1	13443.5	13092.9	13061.7	13417.5	14199.3	16422.6	18264.1	15872.0	13770.8
27.5°	14908.4	14775.9	14705.8	14183.7	13934.4	14111.0	14653.9	16474.5	18726.4	16123.9	13705.8
30°	16622.6	16461.6	16318.7	15578.5	15126.6	15061.6	15360.3	16817.4	19271.8	16388.8	13594.2
32.5°	18723.8	18536.8	18277.1	17295.3	16659.0	16318.7	16274.6	17427.7	19910.7	16726.5	13537.0
35°	21225.0	20980.8	20612.0	19341.9	18536.8	17840.7	17479.7	18308.2	20786.0	17235.5	13602.0
37.5°	23801.5	23526.2	23188.5	21676.9	20687.3	19661.4	18949.8	19503.0	21952.2	17926.4	13773.4
40°	26178.0	25868.9	25554.6	24209.2	23147.0	21910.7	20749.7	21014.6	23378.1	18752.4	14064.3
42.5°	27580.5	27352.0	27232.5	26505.2	25684.5	24430.0	22988.5	22806.7	24980.6	19703.0	14396.7
45°	27518.2	27424.7	27793.5	28094.8	27900.0	27203.9	25611.8	24788.4	26588.4	20526.3	14703.2
47.5°	26048.1	26110.5	26933.8	28627.2	29372.6	29736.3	28598.6	26733.8	27985.7	21141.9	14840.9
50°	22048.3	22100.3	24006.7	27658.4	29751.8	31801.1	31562.1	28632.4	29068.8	21518.5	14809.7
52.5°	18882.2	18916.0	19734.1	24785.8	28499.9	32840.0	34232.1	30421.9	29860.9	21622.4	14635.7
55°	14222.7	14339.6	15256.4	19445.8	25243.0	32016.7	35858.0	32266.0	30362.2	21632.7	14453.9
57.5°	8308.7	8436.0	9568.4	13199.4	19619.9	29146.7	36104.8	33902.3	30702.4	21549.6	14344.8
60°	4069.9	4124.5	4618.0	6937.3	12098.1	23617.1	34120.5	34694.5	30892.0	21505.5	14339.6
62.5°	2742.7	2734.9	2755.7	3423.2	5960.8	15173.3	29985.6	33307.5	30790.8	21336.7	14287.6
65°	2358.3	2329.8	2251.8	2402.5	3088.2	6939.9	23167.7	29167.5	30019.4	20913.3	13931.8
67.5°	2038.9	2041.5	2044.1	1997.3	2205.1	3202.4	14157.8	22975.5	27250.7	18908.2	12560.4
70°	1688.2	1711.6	1722.0	1722.0	1797.3	2101.2	6043.9	15747.3	21495.1	14825.3	10116.4
72.5°	1537.6	1488.2	1493.4	1467.5	1467.5	1599.9	2433.7	8926.9	13542.2	8339.9	6173.7
75°	1254.5	1285.7	1290.8	1272.7	1212.9	1220.7	1444.1	3745.3	5794.5	3459.6	3051.8
77.5°	1083.1	1083.1	1093.5	1080.5	1033.7	914.2	963.6	1451.9	1971.3	1418.1	1524.6
80°	870.1	867.5	911.6	937.6	864.9	675.3	615.6	802.6	875.3	623.3	792.2
82.5°	423.4	449.3	625.9	714.3	657.1	488.3	376.6	498.7	467.5	275.3	355.8
85°	246.7	233.8	280.5	397.4	376.6	270.1	181.8	259.7	244.1	140.3	142.9
87.5°	77.9	72.7	57.1	135.1	109.1	75.3	49.3	75.3	67.5	31.2	31.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0	12589.0
2.5°	12446.2	12139.7	11835.8	11557.9	11389.1	11280.0	11170.9	11048.8	11002.1	10931.9
5°	12321.5	11729.3	11202.1	10747.5	10334.6	10009.9	9682.7	9417.7	9298.3	9378.8
7.5°	12248.8	11391.7	10578.7	9745.0	8942.4	8300.9	7742.5	7350.3	7173.7	7217.8
10°	12183.8	11009.9	9771.0	8454.1	7301.0	6506.2	5934.8	5636.1	5524.4	5547.8
12.5°	12124.1	10581.3	8797.0	7064.6	5838.7	5314.0	5150.4	5153.0	5173.8	5189.4
15°	12113.7	10064.5	7708.7	5849.1	5049.1	5015.3	5192.0	5303.6	5363.4	5381.6
17.5°	12098.1	9446.3	6599.7	5020.5	4856.9	5085.5	5249.1	5321.8	5368.6	5371.2
20°	12035.8	8661.9	5576.4	4625.8	4815.4	5012.7	5114.0	5171.2	5210.1	5223.1
22.5°	11843.6	7789.2	4779.0	4449.1	4649.1	4807.6	4927.0	4992.0	5015.3	5030.9
25°	11498.2	6812.7	4228.4	4280.3	4418.0	4618.0	4714.1	4727.0	4719.3	4742.6
27.5°	11046.2	5766.0	3885.5	4051.8	4228.4	4399.8	4451.7	4443.9	4428.4	4454.3
30°	10500.8	4825.7	3667.4	3794.6	4036.2	4192.0	4238.8	4220.6	4189.4	4218.0
32.5°	9924.2	4057.0	3488.1	3615.4	3877.7	4031.0	4077.7	4059.5	4036.2	4059.5
35°	9386.6	3519.3	3321.9	3495.9	3753.1	3903.7	3963.4	3966.0	3966.0	3994.6
37.5°	8893.1	3205.0	3184.3	3420.6	3667.4	3802.4	3888.1	3893.3	3781.6	3789.4
40°	8436.0	3072.6	3121.9	3371.3	3584.2	3714.1	3719.3	3428.4	3223.2	3218.0
42.5°	8062.0	3046.6	3140.1	3366.1	3524.5	3529.7	3163.5	2937.5	2880.4	2883.0
45°	7711.3	3038.8	3181.7	3366.1	3436.2	3049.2	2802.5	2742.7	2747.9	2768.7
47.5°	7319.1	3007.6	3189.5	3319.3	3181.7	2711.6	2638.8	2612.9	2602.5	2607.7
50°	6890.6	2896.0	3090.8	3225.8	2745.3	2566.1	2475.2	2467.4	2480.4	2488.2
52.5°	6438.7	2714.2	2921.9	3057.0	2545.3	2438.8	2337.6	2355.7	2412.9	2431.1
55°	6142.6	2501.2	2698.6	2719.4	2405.1	2319.4	2233.7	2275.2	2381.7	2415.5
57.5°	6064.6	2275.2	2444.0	2420.7	2225.9	2215.5	2163.5	2199.9	2335.0	2384.3
60°	6041.3	2072.6	2194.7	2176.5	2051.9	2101.2	2088.2	2106.4	2153.1	2168.7
62.5°	5859.5	1911.6	1971.3	1945.4	1896.0	1981.7	2012.9	1973.9	2010.3	2028.5
65°	5397.1	1781.7	1753.2	1735.0	1755.8	1833.7	1896.0	1818.1	1851.9	1903.8
67.5°	4633.5	1605.1	1527.2	1548.0	1612.9	1654.5	1735.0	1646.7	1675.2	1763.6
70°	3747.9	1381.8	1311.6	1371.4	1433.7	1519.4	1532.4	1472.7	1540.2	1638.9
72.5°	2651.8	1155.8	1106.4	1228.5	1249.3	1361.0	1332.4	1303.8	1397.3	1431.1
75°	1838.9	932.4	903.9	997.4	1072.7	1168.8	1148.0	1181.8	1379.2	1394.7
77.5°	1163.6	724.6	706.5	766.2	870.1	976.6	1010.3	1394.7	2355.7	2449.2
80°	675.3	540.2	519.5	566.2	657.1	755.8	974.0	1711.6	1553.2	1535.0
82.5°	376.6	371.4	345.4	358.4	438.9	545.4	1376.6	1205.1	979.2	1010.3
85°	176.6	218.2	187.0	179.2	246.7	638.9	919.4	688.3	457.1	446.7
87.5°	46.8	41.6	41.6	46.8	103.9	550.6	366.2	293.5	174.0	168.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)