

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: P648154

Luminaire Tested: **GALN-SA9A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27462.2 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

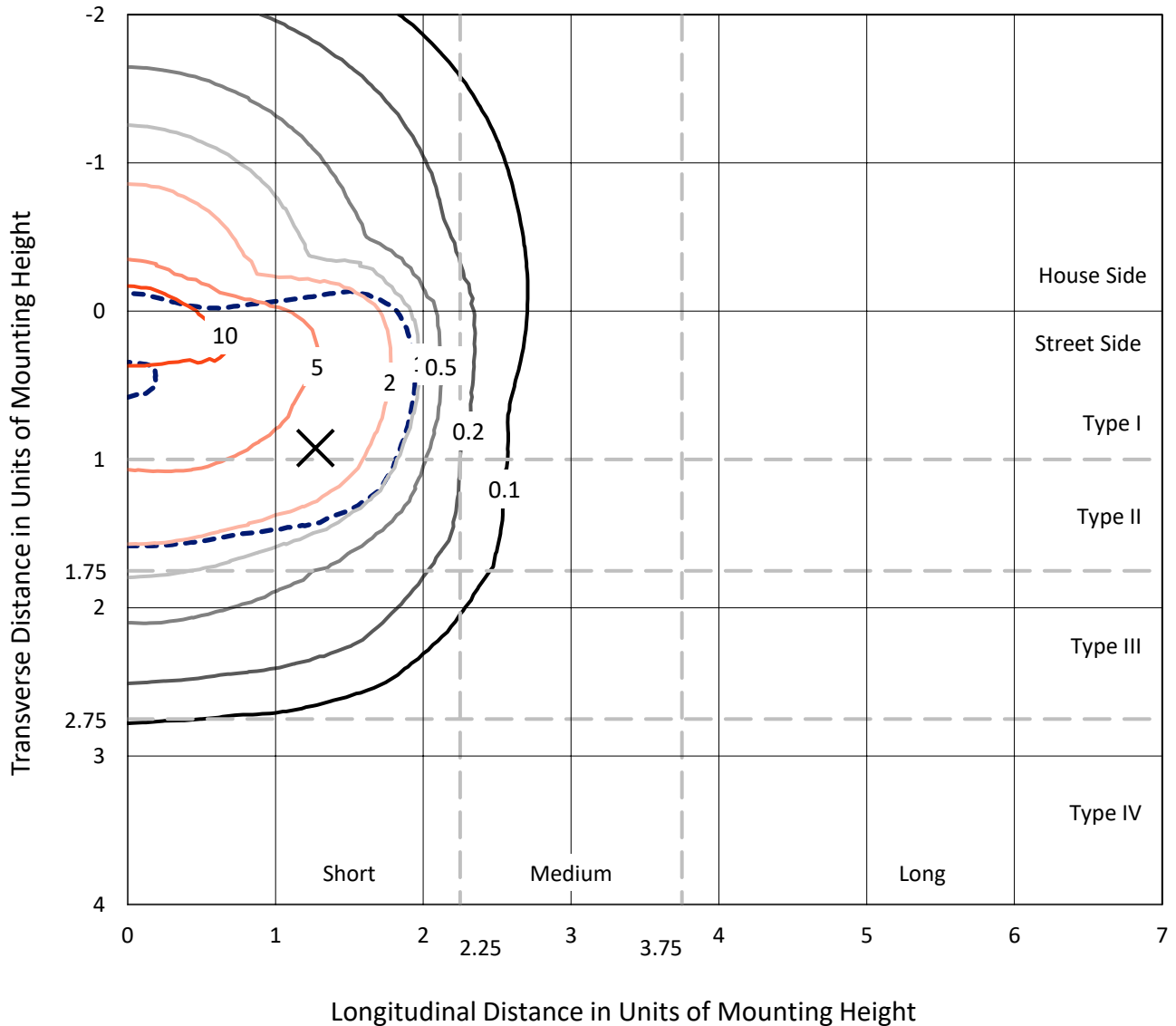
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

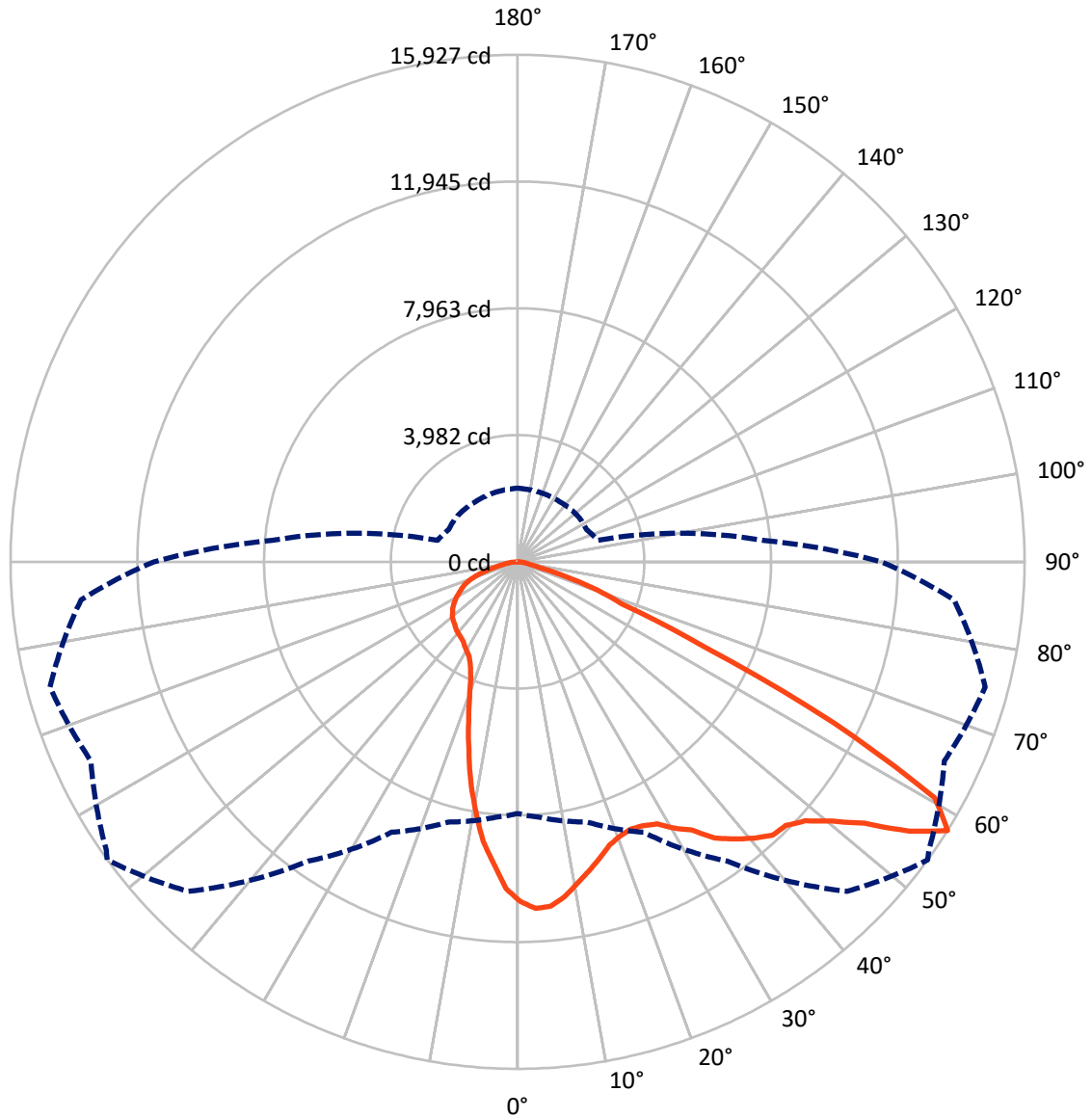
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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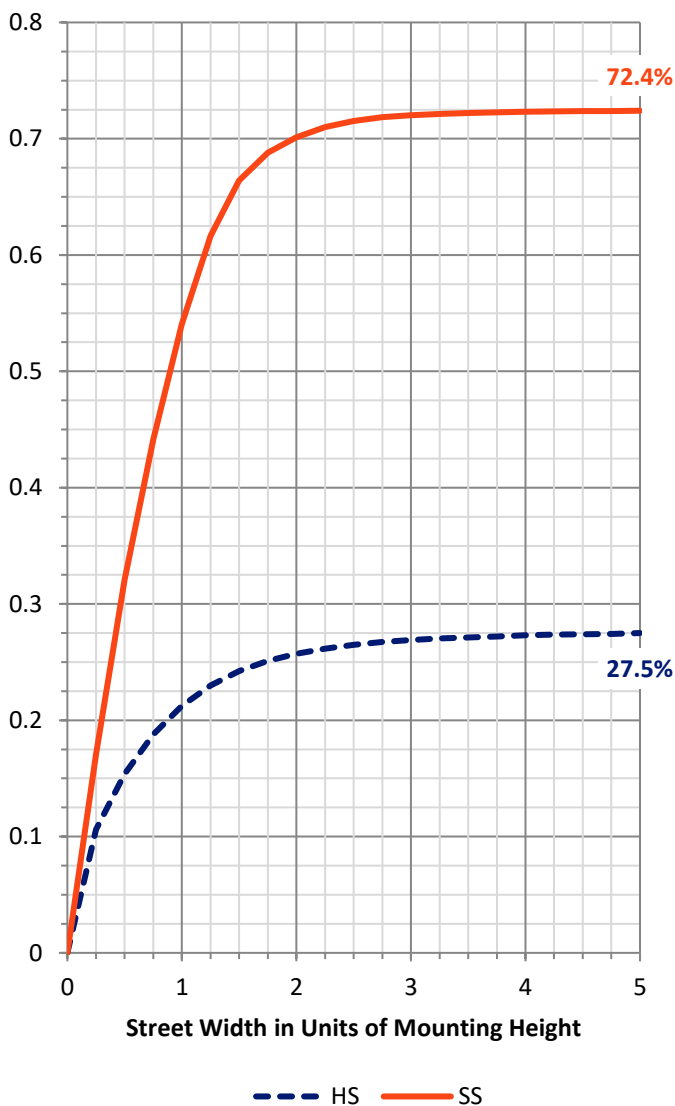
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7597.6	0.0	7597.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	19864.6	0.0	19864.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	27462.2	0.0	27462.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.5	3.4
10°-20°	2131.4	7.8
20°-30°	2994.7	10.9
30°-40°	4186.5	15.2
40°-50°	5667.8	20.6
50°-60°	6903.6	25.1
60°-70°	3595.7	13.1
70°-80°	921.4	3.4
80°-90°	140.5	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°	27462.2	100.0
0°-180°	27462.2	100.0

Coefficient of Utilization



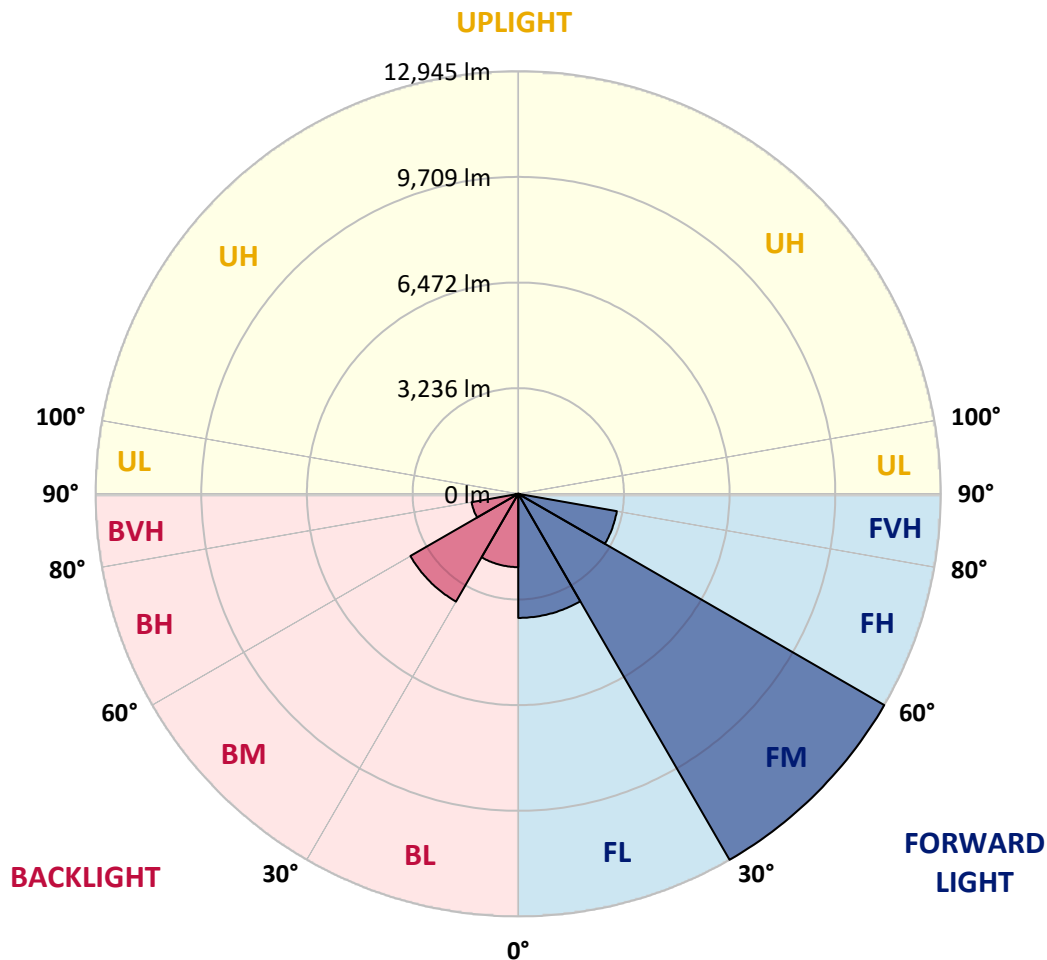
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3801.1	13.8			
FM (30°-60°)	12944.8	47.1			
FH (60°-80°)	3065.6	11.2			G2/5000
FVH (80°-90°)	53.1	0.2			G1/100
BL (0°-30°)	2245.5	8.2	B3/2500		
BM (30°-60°)	3813.1	13.9	B3/5000		
BH (60°-80°)	1451.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	87.4	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°	54°	55°	65°	75°	85°
0°	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2
2.5°	10977.8	10935.5	10942.5	10999.0	10928.4	10900.1	10900.1	10762.5	10773.1	10677.8	10653.0
5°	10723.7	10624.8	10691.9	10776.6	10790.7	10818.9	10864.8	10829.5	10730.7	10628.4	10462.4
7.5°	10060.1	10148.3	10173.0	10233.0	10360.1	10476.5	10621.3	10522.4	10518.9	10416.6	10317.7
10°	9477.6	9424.7	9558.8	9647.0	9858.8	10052.9	10275.4	10264.7	10317.7	10201.2	10031.8
12.5°	8898.7	8856.4	8919.9	9121.1	9417.6	9700.0	9964.7	9865.9	10148.3	10127.1	9763.5
15°	8284.5	8316.3	8408.1	8595.1	8983.4	9322.3	9657.6	9661.2	9911.8	9996.5	9509.4
17.5°	7853.9	7818.6	7935.1	8213.9	8559.8	8965.8	9347.0	9424.7	9809.4	9858.8	9431.7
20°	7532.7	7582.1	7733.8	7875.1	8274.0	8764.6	9195.2	9223.4	9788.2	9922.3	9308.1
22.5°	7455.0	7426.8	7476.2	7705.7	8033.9	8566.9	9114.0	9219.9	9784.7	9901.2	9075.2
25°	7373.8	7465.6	7462.1	7691.5	7931.6	8408.1	9181.1	9297.6	9971.8	10010.7	9107.0
27.5°	7557.4	7546.8	7645.6	7663.3	7959.7	8450.4	9322.3	9410.6	10282.4	10250.6	9131.7
30°	7740.9	7688.0	7748.0	7956.2	8093.9	8694.0	9710.6	9703.5	10684.8	10663.6	9209.3
32.5°	7966.9	7942.1	7981.0	8164.5	8397.5	9018.8	10038.8	10247.1	11094.2	11228.4	9477.6
35°	8009.2	8111.6	8203.3	8450.4	8782.2	9544.7	10656.6	10829.5	11567.3	11987.3	9989.4
37.5°	8277.5	8316.3	8531.6	8969.3	9272.9	10247.1	11048.4	11157.8	11997.9	12474.4	10529.5
40°	8563.4	8609.2	8934.0	9392.9	9809.4	10706.0	11415.5	11450.8	12135.6	12848.6	10882.5
42.5°	8951.6	8994.0	9315.3	9890.6	10448.4	11097.8	11740.2	11779.1	12125.0	13279.2	11443.7
45°	9354.0	9456.4	9834.1	10487.1	10988.4	11556.7	11814.4	11973.2	12223.8	13664.0	11899.1
47.5°	9918.8	10014.2	10324.8	10963.6	11549.6	11959.1	12156.8	12312.0	12460.3	13999.3	12192.1
50°	10518.9	10536.6	10914.2	11493.2	11923.8	12414.5	12795.6	12848.6	12771.0	14387.6	12689.8
52.5°	10960.1	11016.7	11309.6	11874.4	12516.8	13120.4	13642.8	13699.3	13547.5	14532.3	12859.2
55°	10229.5	10197.7	10674.2	11426.1	12915.7	14172.3	14931.2	14973.5	14112.3	14980.6	13413.4
57.5°	7906.8	8058.6	8464.5	9371.7	11475.5	14638.3	15926.6	15774.9	14790.0	15206.6	13766.4
60°	5746.6	5711.3	5983.1	6590.2	8648.1	12615.6	15058.3	15213.6	14235.8	13706.3	11351.9
62.5°	4680.5	4631.1	4652.4	4673.5	5580.7	8372.8	11147.3	11143.7	10963.6	9851.8	7656.3
65°	3741.6	3858.1	3868.7	4027.5	4144.0	5001.8	6459.6	6805.5	5926.6	4860.6	3526.3
67.5°	2820.4	2778.0	2919.2	3484.0	3702.8	3611.0	3526.3	3565.2	2534.4	1828.5	1722.5
70°	1662.5	1644.9	1814.4	2428.6	3049.8	2869.8	2658.0	2661.5	1740.2	1277.8	1422.6
72.5°	910.7	907.2	942.5	1231.9	1733.2	1800.2	1595.5	1644.9	1037.8	1034.3	1111.9
75°	508.3	497.7	487.1	543.6	624.8	660.1	674.2	681.3	713.0	797.7	829.5
77.5°	187.1	180.0	180.0	208.3	264.7	331.8	420.1	427.1	504.8	578.9	610.7
80°	63.5	70.6	95.3	130.6	176.5	236.5	286.0	293.0	356.5	405.9	416.6
82.5°	38.8	42.4	63.5	91.8	127.1	165.9	211.8	215.3	264.7	296.5	310.6
85°	17.6	21.1	35.3	56.5	81.2	109.5	113.0	113.0	109.5	113.0	105.9
87.5°	0.0	0.0	7.0	7.0	7.0	10.6	14.1	10.6	17.6	21.1	21.1
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°	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2	10674.2
2.5°	10579.0	10540.1	10420.1	10314.1	10282.4	10141.3	9933.0	9957.6	9805.9	9876.4	9802.4
5°	10434.2	10303.6	9996.5	9865.9	9523.5	9368.2	9262.3	8997.5	8874.0	8849.3	8743.4
7.5°	10063.6	9982.4	9597.6	9244.6	8881.1	8570.4	8171.5	7899.8	7705.7	7652.7	7497.4
10°	9770.6	9590.6	9057.6	8521.0	8002.1	7462.1	6943.2	6537.3	6339.6	6110.1	6032.5
12.5°	9481.1	9209.3	8489.3	7801.0	7130.2	6449.0	5820.7	5326.5	4895.9	4793.5	4758.2
15°	9301.1	8828.1	7981.0	7151.5	6198.4	5308.9	4680.5	4355.8	4091.1	3981.6	4059.3
17.5°	9064.6	8514.0	7493.9	6389.0	5340.6	4521.7	3995.8	3794.6	3699.3	3709.9	3678.1
20°	8768.1	8217.4	6854.9	5697.2	4574.7	3921.7	3621.6	3547.5	3561.6	3586.3	3575.7
22.5°	8556.3	7857.4	6392.6	4991.2	3953.4	3589.8	3466.3	3413.3	3459.2	3480.4	3462.7
25°	8393.9	7550.3	5831.3	4366.4	3593.3	3402.8	3346.3	3342.8	3413.3	3441.6	3424.0
27.5°	8245.7	7264.4	5273.6	3889.9	3353.4	3258.1	3240.4	3282.7	3328.6	3356.9	3381.6
30°	8157.5	7045.6	4751.2	3491.0	3233.3	3187.4	3155.6	3194.5	3219.2	3247.4	3233.3
32.5°	8242.2	6890.2	4246.4	3265.1	3134.5	3088.6	3131.0	3106.2	3148.6	3173.3	3134.5
35°	8506.9	6752.6	3886.3	3145.1	3021.5	3039.2	3046.3	3035.7	3053.3	3032.2	3078.1
37.5°	8768.1	6703.2	3554.5	3042.7	2968.6	2968.6	2961.5	2940.3	2975.6	2968.6	2989.8
40°	9099.9	6734.9	3272.2	2933.3	2919.2	2912.1	2883.9	2880.3	2866.2	2869.8	2876.8
42.5°	9389.3	6805.5	3109.8	2862.7	2873.3	2887.4	2834.5	2792.1	2809.7	2774.5	2774.5
45°	9696.4	6869.0	2965.1	2813.3	2802.7	2799.1	2756.8	2732.1	2717.9	2721.5	2753.3
47.5°	10180.0	6960.9	2855.6	2746.2	2753.3	2700.3	2689.8	2658.0	2672.1	2693.3	2696.8
50°	10522.4	7155.0	2771.0	2668.5	2693.3	2658.0	2594.4	2580.3	2580.3	2615.6	2608.6
52.5°	10762.5	7426.8	2689.8	2583.8	2594.4	2566.2	2545.0	2513.3	2492.1	2541.5	2566.2
55°	11496.7	7878.6	2668.5	2513.3	2509.7	2481.5	2442.6	2410.9	2400.3	2407.3	2456.7
57.5°	11426.1	7737.4	2601.5	2389.7	2382.7	2343.8	2305.0	2294.4	2290.9	2297.9	2312.0
60°	9276.4	5714.8	2322.6	2248.5	2237.9	2230.8	2192.0	2149.6	2128.5	2149.6	2132.0
62.5°	6138.4	3826.4	2047.3	2079.1	2086.1	2068.5	2004.9	1962.6	1969.6	1994.4	1955.5
65°	3014.5	2248.5	1856.7	1941.4	1948.5	1899.1	1839.0	1789.6	1764.9	1786.1	1768.5
67.5°	1722.5	1719.0	1701.4	1789.6	1786.1	1736.7	1641.4	1599.0	1556.7	1563.7	1553.2
70°	1461.4	1489.6	1524.9	1577.8	1574.3	1517.8	1404.9	1373.1	1313.1	1306.0	1288.4
72.5°	1150.7	1200.2	1277.8	1316.6	1284.8	1214.3	1140.1	1087.2	1034.3	1002.5	1013.0
75°	854.3	924.8	967.2	991.9	942.5	903.7	843.6	780.1	716.5	688.3	677.8
77.5°	621.2	642.5	681.3	698.9	667.1	628.3	593.0	529.5	469.5	430.6	420.1
80°	434.2	448.3	476.5	476.5	476.5	458.9	413.0	349.5	310.6	275.3	268.3
82.5°	303.6	317.7	345.9	331.8	328.3	307.1	278.8	229.4	187.1	162.4	155.3
85°	105.9	116.5	141.2	169.4	180.0	176.5	158.9	127.1	98.8	81.2	74.2
87.5°	24.7	24.7	28.3	24.7	24.7	28.3	24.7	24.7	24.7	17.6	14.1
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)