

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: P529690

Luminaire Tested: **GALN-SA4D-760-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529690  
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-SA4D-760-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 1200mA 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: 25890 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

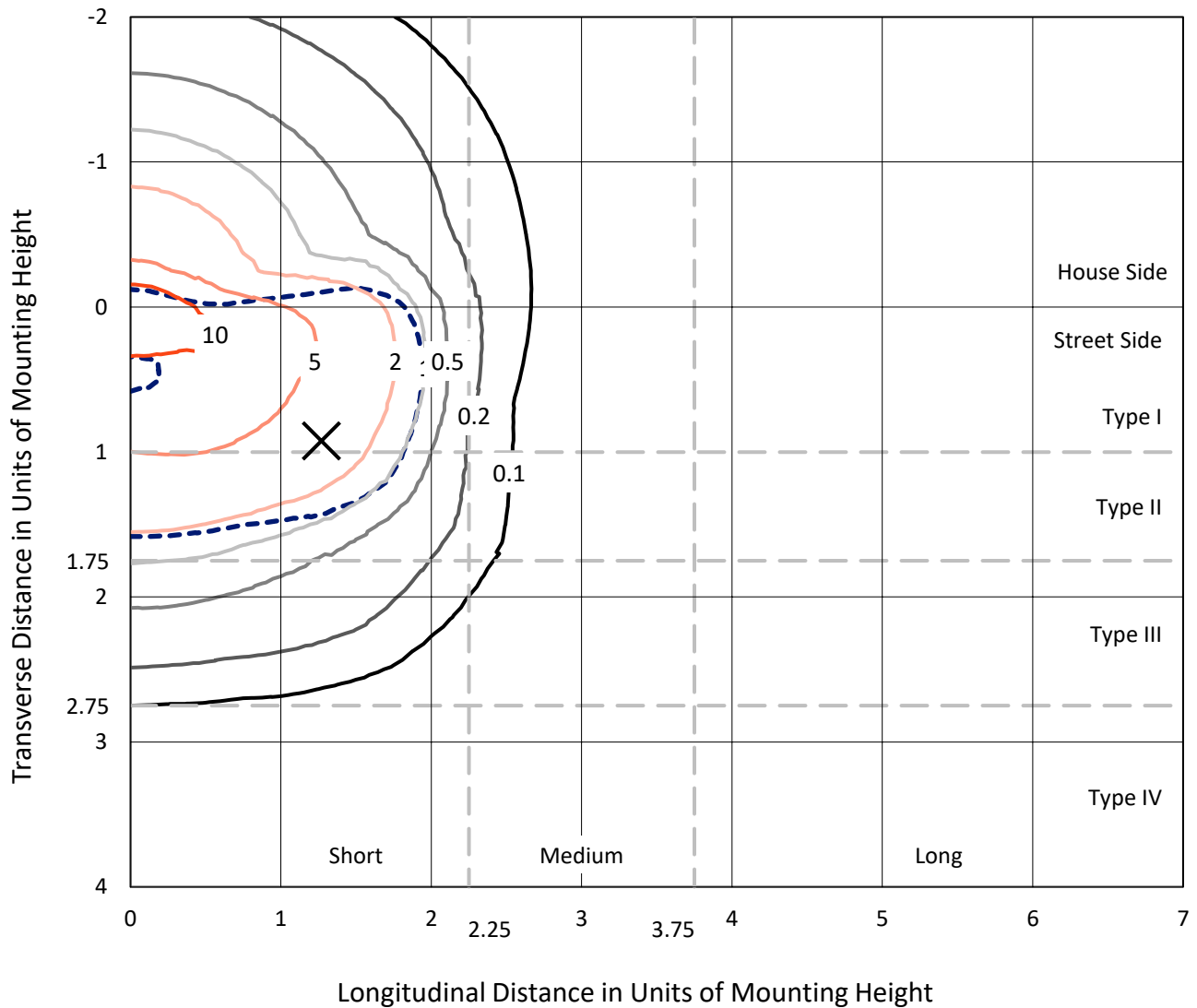
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

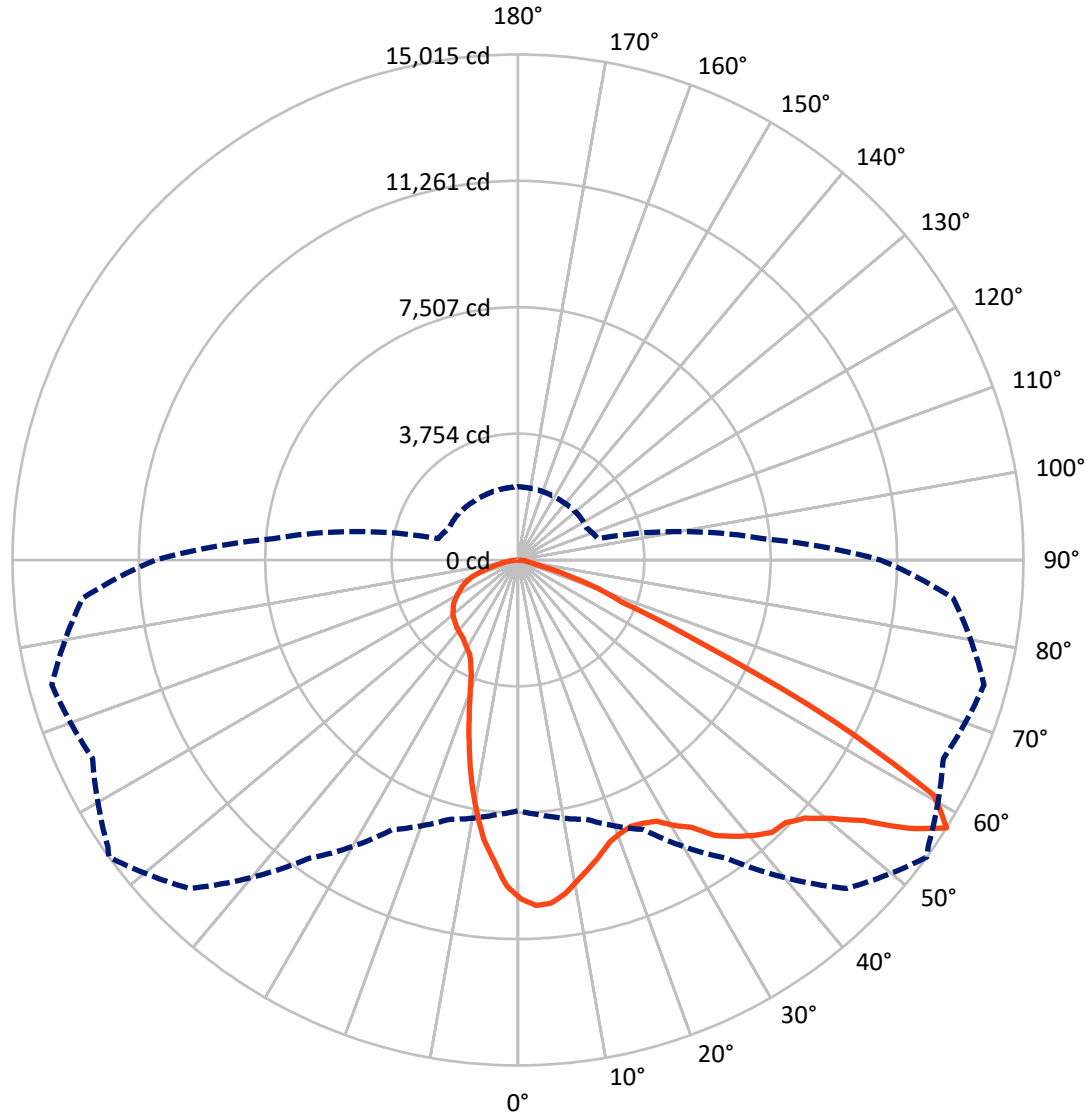
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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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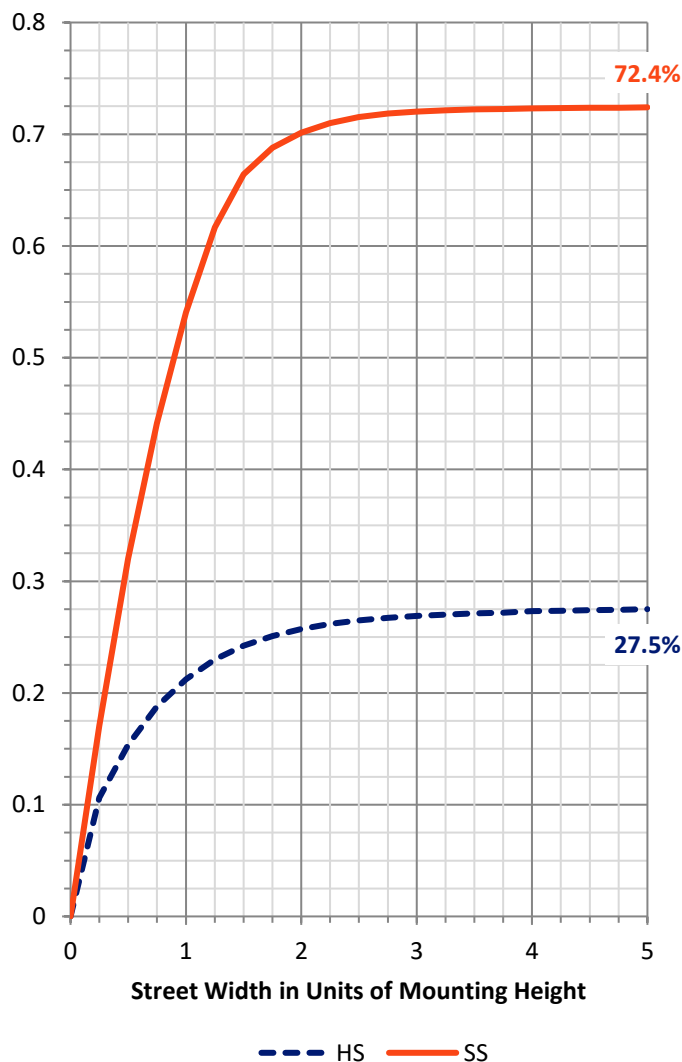
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7162.6	0.0	7162.6
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	18727.4	0.0	18727.4
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	25890.0	0.0	25890.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	867.9	3.4
10°-20°	2009.4	7.8
20°-30°	2823.2	10.9
30°-40°	3946.9	15.2
40°-50°	5343.3	20.6
50°-60°	6508.4	25.1
60°-70°	3389.9	13.1
70°-80°	868.6	3.4
80°-90°	132.5	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°	25890.0	100.0
0°-180°	25890.0	100.0

**Coefficient of Utilization**



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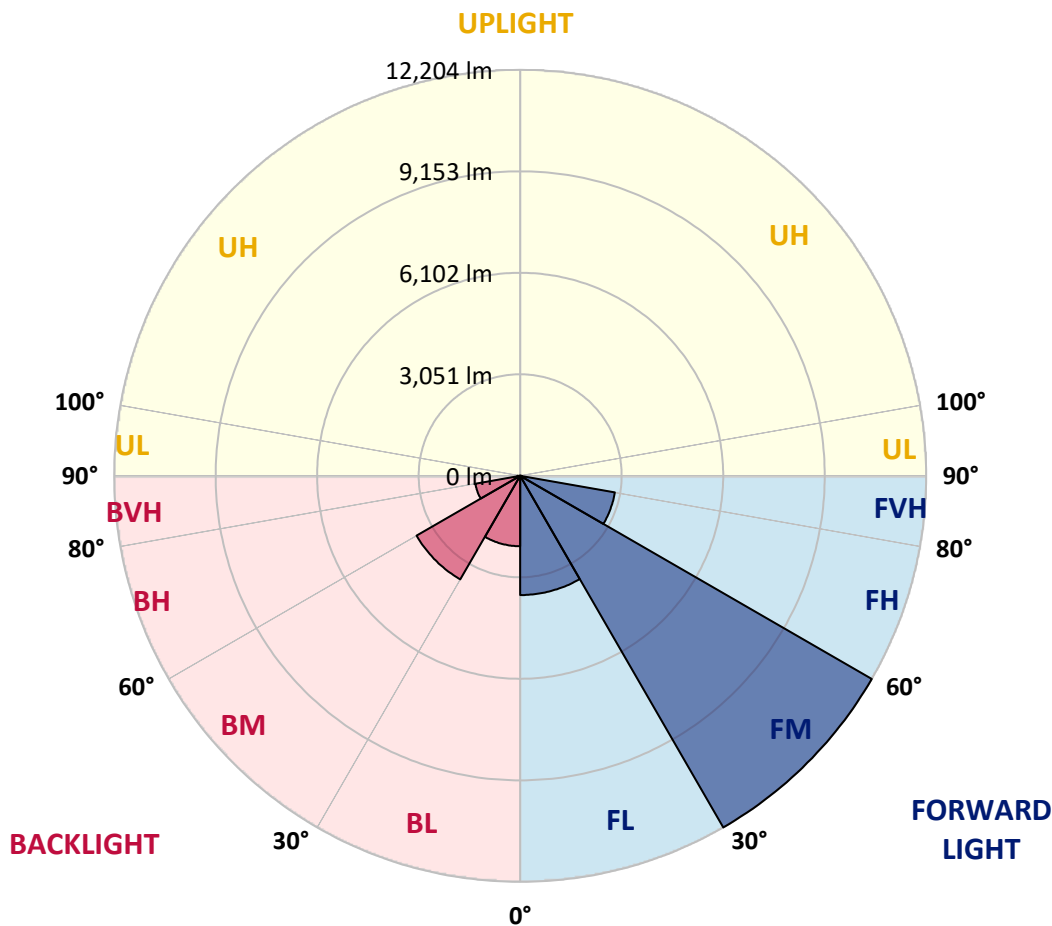
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3583.5	13.8			
FM (30°-60°)	12203.7	47.1			
FH (60°-80°)	2890.0	11.2			G2/5000
FVH (80°-90°)	50.1	0.2			G1/100
BL (0°-30°)	2116.9	8.2	B3/2500		
BM (30°-60°)	3594.9	13.9	B3/5000		
BH (60°-80°)	1368.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	82.4	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°	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1
2.5°	10349.3	10309.4	10316.1	10369.3	10302.7	10276.1	10276.1	10146.3	10156.3	10066.5	10043.2
5°	10109.7	10016.6	10079.8	10159.7	10173.0	10199.6	10242.8	10209.6	10116.4	10019.9	9863.5
7.5°	9484.1	9567.3	9590.6	9647.2	9767.0	9876.8	10013.2	9920.1	9916.7	9820.2	9727.0
10°	8935.0	8885.1	9011.6	9094.8	9294.4	9477.5	9687.1	9677.1	9727.0	9617.2	9457.5
12.5°	8389.3	8349.4	8409.2	8598.9	8878.5	9144.7	9394.3	9301.1	9567.3	9547.3	9204.6
15°	7810.3	7840.2	7926.7	8103.1	8469.1	8788.6	9104.8	9108.1	9344.4	9424.2	8965.0
17.5°	7404.3	7371.0	7480.8	7743.7	8069.8	8452.5	8811.9	8885.1	9247.8	9294.4	8891.8
20°	7101.4	7148.0	7291.1	7424.2	7800.3	8262.8	8668.8	8695.4	9227.9	9354.3	8775.3
22.5°	7028.2	7001.6	7048.2	7264.5	7574.0	8076.5	8592.3	8692.1	9224.6	9334.4	8555.7
25°	6951.7	7038.2	7034.9	7251.2	7477.5	7926.7	8655.5	8765.3	9400.9	9437.5	8585.6
27.5°	7124.7	7114.8	7207.9	7224.6	7504.1	7966.7	8788.6	8871.8	9693.8	9663.8	8608.9
30°	7297.8	7247.9	7304.4	7500.8	7630.6	8196.3	9154.7	9148.0	10073.1	10053.2	8682.1
32.5°	7510.8	7487.5	7524.1	7697.1	7916.7	8502.4	9464.1	9660.5	10459.1	10585.6	8935.0
35°	7550.7	7647.2	7733.7	7966.7	8279.5	8998.3	10046.5	10209.6	10905.1	11301.1	9417.6
37.5°	7803.6	7840.2	8043.2	8455.8	8742.0	9660.5	10415.9	10519.0	11311.1	11760.3	9926.7
40°	8073.1	8116.4	8422.6	8855.2	9247.8	10093.1	10762.0	10795.3	11440.8	12113.0	10259.5
42.5°	8439.2	8479.1	8782.0	9324.4	9850.2	10462.5	11068.1	11104.7	11430.9	12519.0	10788.6
45°	8818.6	8915.1	9271.1	9886.8	10359.3	10895.1	11138.0	11287.8	11524.0	12881.8	11217.9
47.5°	9351.0	9440.9	9733.7	10336.0	10888.4	11274.5	11460.8	11607.2	11747.0	13197.9	11494.1
50°	9916.7	9933.4	10289.4	10835.2	11241.2	11703.7	12063.1	12113.0	12039.8	13564.0	11963.3
52.5°	10332.7	10385.9	10662.1	11194.6	11800.2	12369.3	12861.8	12915.0	12771.9	13700.4	12123.0
55°	9643.8	9613.9	10063.1	10772.0	12176.3	13361.0	14076.4	14116.4	13304.4	14123.0	12645.5
57.5°	7454.2	7597.3	7980.0	8835.2	10818.5	13800.2	15014.9	14871.8	13943.3	14336.0	12978.3
60°	5417.6	5384.3	5640.6	6212.9	8153.0	11893.4	14196.2	14342.6	13420.9	12921.7	10702.1
62.5°	4412.6	4366.0	4386.0	4406.0	5261.2	7893.4	10509.1	10505.7	10336.0	9287.8	7217.9
65°	3527.4	3637.2	3647.2	3797.0	3906.8	4715.4	6089.8	6415.9	5587.3	4582.3	3324.4
67.5°	2658.9	2618.9	2752.1	3284.5	3490.8	3404.3	3324.4	3361.0	2389.3	1723.8	1623.9
70°	1567.4	1550.7	1710.5	2289.5	2875.2	2705.5	2505.8	2509.1	1640.6	1204.6	1341.1
72.5°	858.6	855.2	888.5	1161.4	1633.9	1697.2	1504.1	1550.7	978.4	975.0	1048.2
75°	479.2	469.2	459.2	512.5	589.0	622.3	635.6	642.3	672.2	752.1	782.0
77.5°	176.4	169.7	169.7	196.3	249.6	312.8	396.0	402.7	475.9	545.8	575.7
80°	59.9	66.6	89.8	123.1	166.4	223.0	269.5	276.2	336.1	382.7	392.7
82.5°	36.6	39.9	59.9	86.5	119.8	156.4	199.7	203.0	249.6	279.5	292.8
85°	16.6	20.0	33.3	53.2	76.5	103.2	106.5	106.5	103.2	106.5	99.8
87.5°	0.0	0.0	6.7	6.7	6.7	10.0	13.3	10.0	16.6	20.0	20.0
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°	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1	10063.1
2.5°	9973.3	9936.7	9823.5	9723.7	9693.8	9560.7	9364.3	9387.6	9244.5	9311.1	9241.2
5°	9836.9	9713.7	9424.2	9301.1	8978.3	8831.9	8732.0	8482.5	8366.0	8342.7	8242.9
7.5°	9487.4	9410.9	9048.2	8715.4	8372.6	8079.8	7703.8	7447.5	7264.5	7214.6	7068.2
10°	9211.2	9041.5	8539.0	8033.2	7544.0	7034.9	6545.7	6163.0	5976.7	5760.4	5687.1
12.5°	8938.4	8682.1	8003.3	7354.3	6722.1	6079.8	5487.5	5021.6	4615.6	4519.1	4485.8
15°	8768.6	8322.7	7524.1	6742.0	5843.5	5005.0	4412.6	4106.5	3856.9	3753.7	3826.9
17.5°	8545.7	8026.6	7064.8	6023.2	5034.9	4262.9	3767.0	3577.3	3487.5	3497.5	3467.5
20°	8266.2	7747.0	6462.5	5371.0	4312.8	3697.1	3414.3	3344.4	3357.7	3381.0	3371.0
22.5°	8066.5	7407.6	6026.6	4705.5	3727.1	3384.3	3267.9	3217.9	3261.2	3281.2	3264.5
25°	7913.4	7118.1	5497.5	4116.4	3387.7	3208.0	3154.7	3151.4	3217.9	3244.6	3227.9
27.5°	7773.6	6848.5	4971.7	3667.2	3161.4	3071.5	3054.9	3094.8	3138.1	3164.7	3188.0
30°	7690.5	6642.2	4479.2	3291.2	3048.2	3005.0	2975.0	3011.6	3034.9	3061.5	3048.2
32.5°	7770.3	6495.8	4003.3	3078.2	2955.1	2911.8	2951.7	2928.4	2968.4	2991.7	2955.1
35°	8019.9	6366.0	3663.9	2965.0	2848.6	2865.2	2871.9	2861.9	2878.5	2858.5	2901.8
37.5°	8266.2	6319.4	3351.1	2868.5	2798.6	2798.6	2792.0	2772.0	2805.3	2798.6	2818.6
40°	8579.0	6349.4	3084.8	2765.4	2752.1	2745.4	2718.8	2715.5	2702.1	2705.5	2712.1
42.5°	8851.8	6415.9	2931.8	2698.8	2708.8	2722.1	2672.2	2632.3	2648.9	2615.6	2615.6
45°	9141.4	6475.8	2795.3	2652.2	2642.2	2638.9	2599.0	2575.7	2562.4	2565.7	2595.7
47.5°	9597.3	6562.3	2692.2	2589.0	2595.7	2545.7	2535.8	2505.8	2519.1	2539.1	2542.4
50°	9920.1	6745.4	2612.3	2515.8	2539.1	2505.8	2445.9	2432.6	2432.6	2465.9	2459.2
52.5°	10146.3	7001.6	2535.8	2435.9	2445.9	2419.3	2399.3	2369.4	2349.4	2396.0	2419.3
55°	10838.5	7427.6	2515.8	2369.4	2366.0	2339.4	2302.8	2272.9	2262.9	2269.5	2316.1
57.5°	10772.0	7294.5	2452.6	2252.9	2246.2	2209.6	2173.0	2163.0	2159.7	2166.4	2179.7
60°	8745.4	5387.6	2189.7	2119.8	2109.8	2103.1	2066.5	2026.6	2006.6	2026.6	2010.0
62.5°	5787.0	3607.3	1930.1	1960.1	1966.7	1950.1	1890.2	1850.2	1856.9	1880.2	1843.6
65°	2841.9	2119.8	1750.4	1830.3	1836.9	1790.3	1733.8	1687.2	1663.9	1683.8	1667.2
67.5°	1623.9	1620.6	1604.0	1687.2	1683.8	1637.3	1547.4	1507.5	1467.5	1474.2	1464.2
70°	1377.7	1404.3	1437.6	1487.5	1484.2	1430.9	1324.4	1294.5	1237.9	1231.3	1214.6
72.5°	1084.8	1131.4	1204.6	1241.3	1211.3	1144.7	1074.9	1025.0	975.0	945.1	955.1
75°	805.3	871.9	911.8	935.1	888.5	851.9	795.3	735.4	675.5	648.9	638.9
77.5°	585.7	605.7	642.3	658.9	628.9	592.3	559.1	499.2	442.6	406.0	396.0
80°	409.3	422.6	449.2	449.2	449.2	432.6	389.3	329.4	292.8	259.6	252.9
82.5°	286.2	299.5	326.1	312.8	309.5	289.5	262.9	216.3	176.4	153.1	146.4
85°	99.8	109.8	133.1	159.7	169.7	166.4	149.7	119.8	93.2	76.5	69.9
87.5°	23.3	23.3	26.6	23.3	23.3	26.6	23.3	23.3	23.3	16.6	13.3
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)