

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: P532300

Luminaire Tested: **GALN-SA7C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30691 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

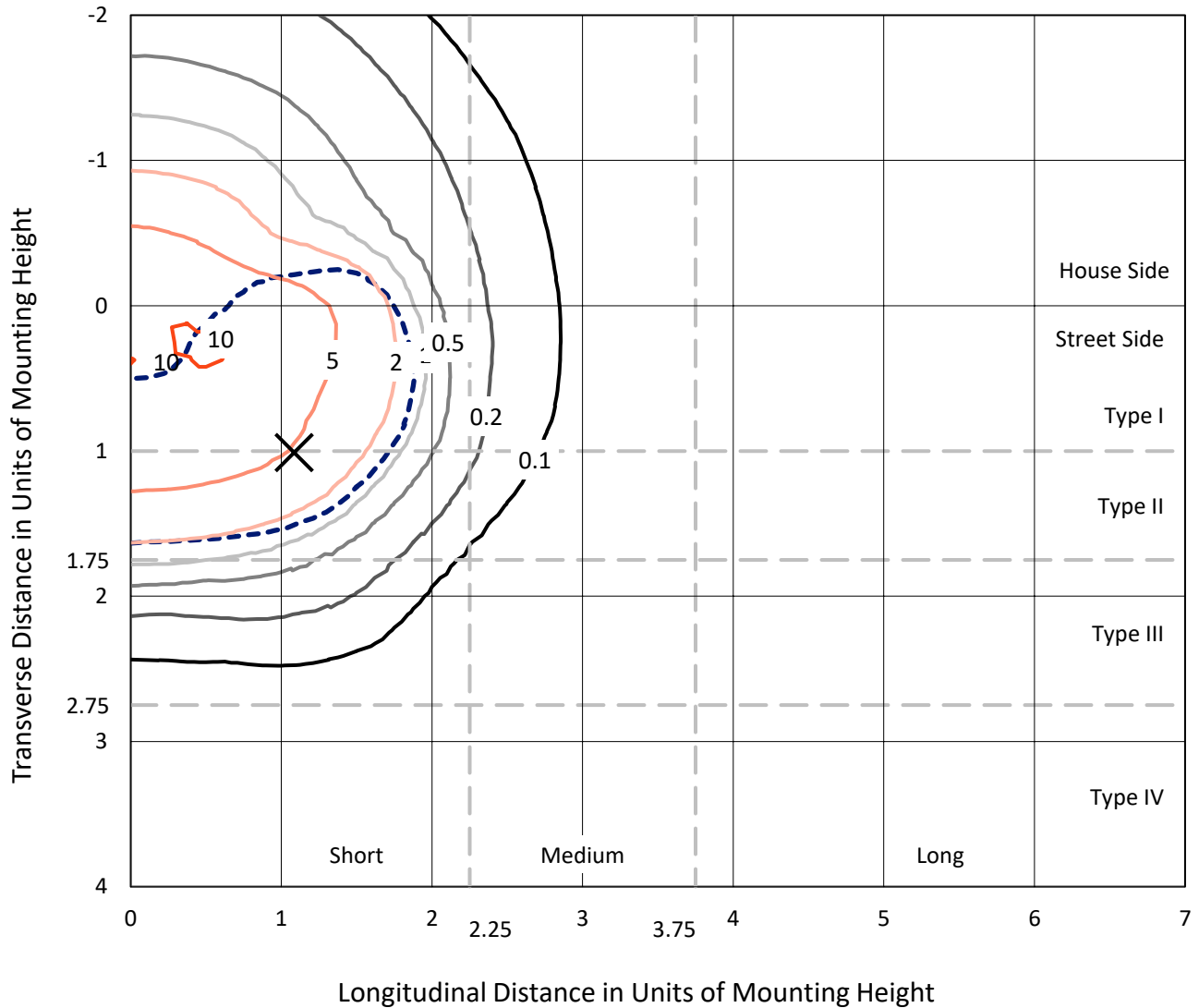
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

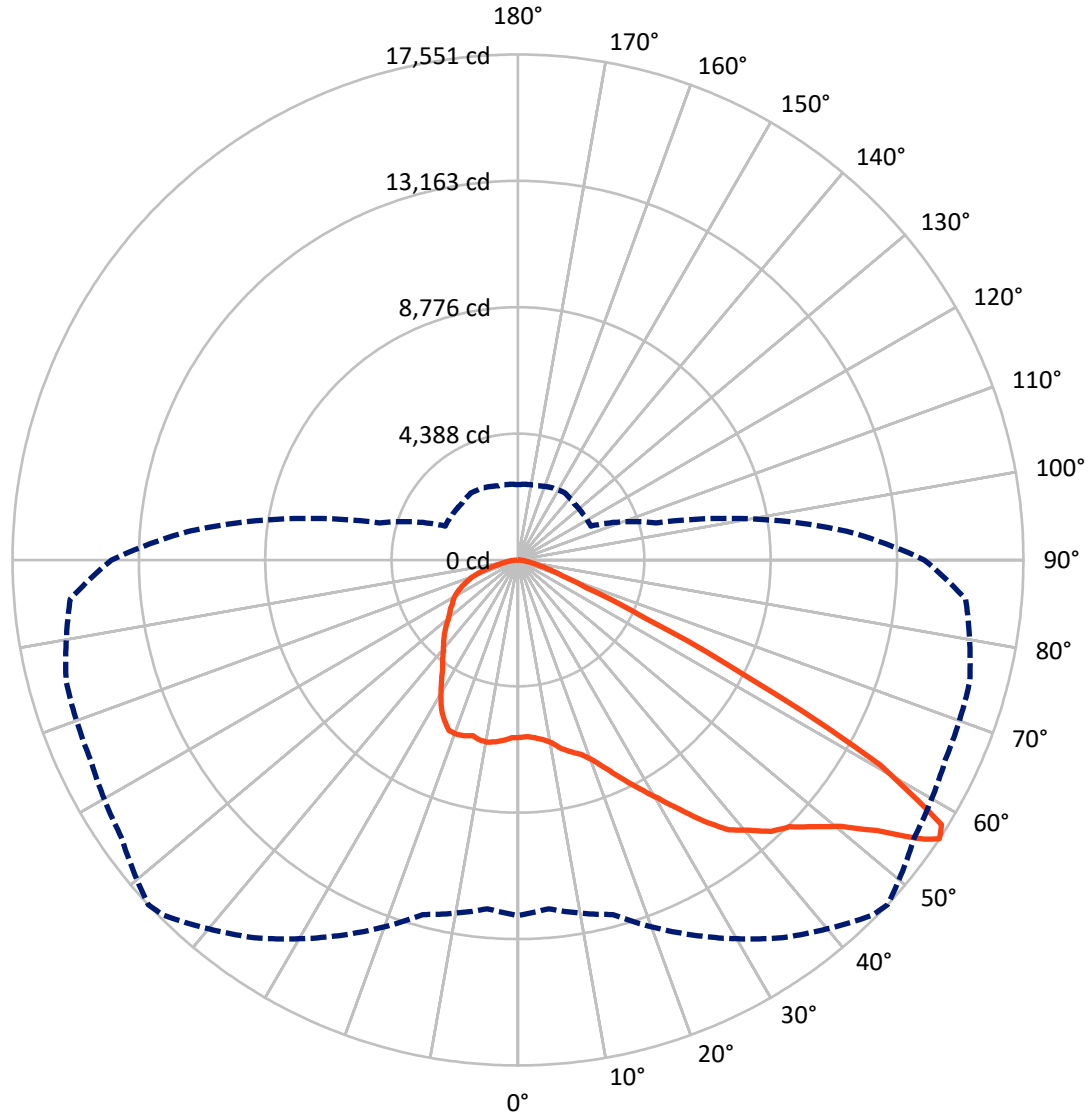
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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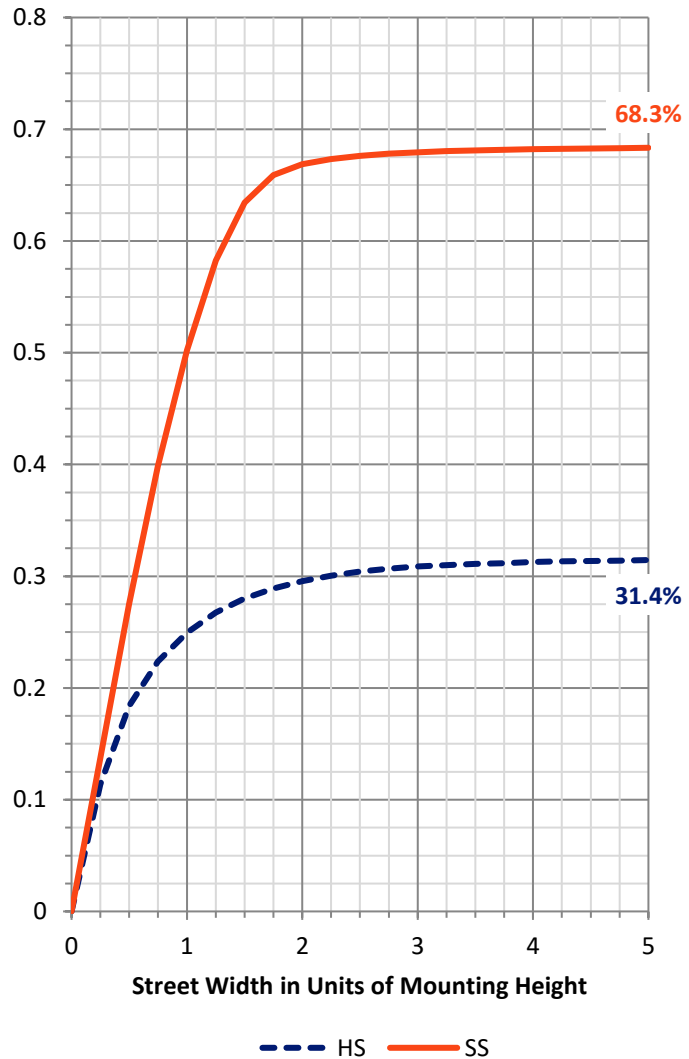
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9725.6	0.0	9725.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	20965.4	0.0	20965.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	30691.0	0.0	30691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.7	2.0
10°-20°	1894.9	6.2
20°-30°	3349.7	10.9
30°-40°	5031.1	16.4
40°-50°	6904.7	22.5
50°-60°	8226.0	26.8
60°-70°	3520.2	11.5
70°-80°	996.2	3.2
80°-90°	167.6	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°	30691.0	100.0
0°-180°	30691.0	100.0

Coefficient of Utilization

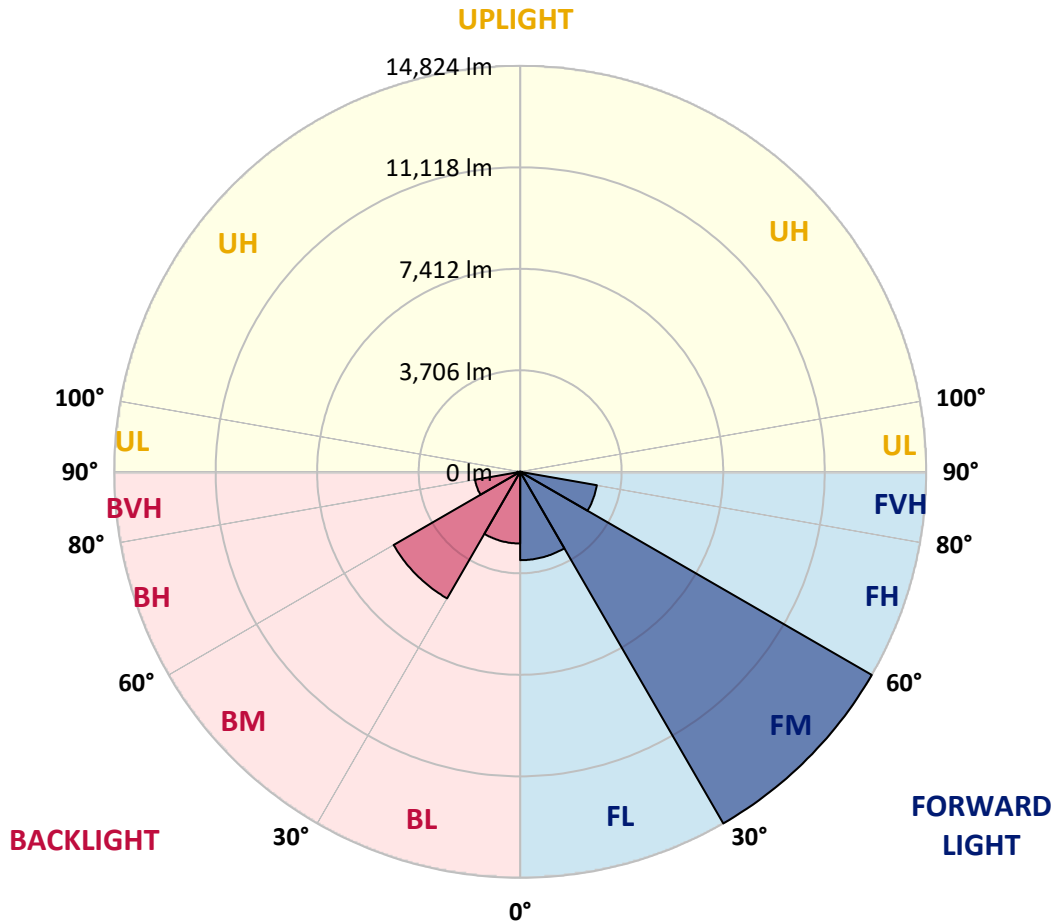


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3226.7	10.5			
FM (30°-60°)	14824.5	48.3			
FH (60°-80°)	2843.1	9.3			G2/5000
FVH (80°-90°)	71.2	0.2			G1/100
BL (0°-30°)	2618.5	8.5	B4/5000		
BM (30°-60°)	5337.2	17.4	B4/8500		
BH (60°-80°)	1673.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	96.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9
2.5°	6141.4	6129.7	6121.8	6184.5	6161.0	6164.9	6141.4	6164.9	6180.5	6145.3	6196.2
5°	6129.7	6164.9	6133.6	6153.1	6204.0	6188.4	6204.0	6251.0	6239.3	6227.5	6211.9
7.5°	6239.3	6243.2	6266.7	6274.5	6290.1	6274.5	6298.0	6341.0	6329.3	6262.7	6270.6
10°	6395.8	6403.7	6407.6	6450.6	6478.0	6481.9	6454.5	6415.4	6411.5	6501.5	6438.9
12.5°	6575.9	6556.3	6603.3	6618.9	6650.3	6685.5	6720.7	6638.5	6689.4	6693.3	6618.9
15°	6838.1	6857.7	6802.9	6802.9	6814.6	6818.6	6916.4	6877.3	6869.4	6826.4	6857.7
17.5°	7229.6	7096.5	7092.6	7037.8	7029.9	7061.2	7096.5	7127.8	7233.5	7147.4	6979.0
20°	7515.3	7546.6	7433.1	7366.6	7378.3	7448.8	7413.5	7554.4	7628.8	7487.9	7323.5
22.5°	8020.2	7914.5	7941.9	7793.2	7804.9	7879.3	7875.4	8020.2	8063.3	7840.2	7601.4
25°	8360.8	8333.4	8356.9	8239.4	8255.1	8313.8	8407.7	8646.5	8576.0	8329.5	7777.5
27.5°	8857.9	8803.1	8783.5	8740.4	8724.8	8881.4	8991.0	9245.4	9194.5	8834.4	8090.7
30°	9366.7	9331.5	9351.1	9174.9	9237.5	9570.3	9601.6	9949.9	9926.5	9292.3	8439.0
32.5°	9719.0	9738.6	9773.8	9675.9	9953.9	10220.0	10325.7	10721.0	10740.6	10079.1	9112.3
35°	10286.6	10220.0	10239.6	10353.1	10482.3	10967.6	11139.9	11402.1	11566.5	10905.0	9758.1
37.5°	10642.8	10713.2	10631.0	10811.1	11147.7	11730.9	11887.5	12157.6	12329.8	11719.2	10638.8
40°	11198.6	11085.1	11143.8	11272.9	11617.4	12376.7	12333.7	12611.6	12666.4	12412.0	11460.8
42.5°	11797.4	11742.6	11660.4	11954.0	12243.7	12795.6	12881.7	12752.5	13030.4	13089.1	12635.1
45°	12513.7	12580.3	12592.0	12599.9	12854.3	13335.7	13218.3	13104.8	13425.8	13852.4	13363.1
47.5°	13179.2	12967.8	13120.5	13331.8	13691.9	13695.8	13832.8	13562.8	13903.3	14283.0	14020.7
50°	13402.3	13300.5	13504.0	13903.3	14459.1	14517.8	14533.5	14149.9	14326.0	14627.4	14247.7
52.5°	13316.2	13280.9	13801.5	14420.0	15234.1	15531.6	15609.9	15136.3	15234.1	15097.1	14748.8
55°	12905.2	13010.9	13535.4	14795.7	16044.4	16964.2	17113.0	16514.1	15891.7	15997.4	15613.8
56°	12341.5	12157.6	12744.7	14369.1	16009.1	17430.0	17551.3	16803.7	16381.0	16244.0	15606.0
57.5°	10470.5	10231.8	11002.9	12928.7	15120.6	17253.9	17343.9	16925.1	16298.8	16020.9	14466.9
60°	6129.7	6247.1	7225.6	8916.6	11664.4	14146.0	14447.4	14752.7	14333.9	13089.1	10768.0
62.5°	2959.1	2884.8	3585.4	5112.0	7108.2	9030.1	8940.1	9797.3	10267.0	9300.2	6799.0
65°	1550.0	1542.2	1957.1	2790.8	3906.4	4744.0	4826.2	5288.1	5934.0	4791.0	3452.3
67.5°	1139.0	1170.4	1377.8	1961.0	2512.9	2563.8	2552.1	2783.0	2845.6	2407.2	2121.5
70°	892.4	908.1	1060.8	1491.3	1871.0	1675.3	1640.1	1667.5	1851.4	1929.7	1835.8
72.5°	645.8	661.5	790.7	1006.0	1170.4	1143.0	1166.4	1319.1	1546.1	1628.3	1530.5
75°	430.6	442.3	512.8	614.5	692.8	747.6	790.7	966.8	1178.2	1225.1	1178.2
77.5°	297.5	309.2	356.2	434.5	442.3	477.5	493.2	575.4	704.6	763.3	732.0
80°	168.3	168.3	191.8	223.1	274.0	321.0	328.8	395.3	454.0	493.2	501.0
82.5°	78.3	82.2	101.8	137.0	180.1	223.1	230.9	274.0	317.1	356.2	367.9
85°	39.1	43.1	58.7	82.2	109.6	133.1	129.2	133.1	140.9	133.1	137.0
87.5°	11.7	11.7	15.7	19.6	15.7	19.6	19.6	23.5	27.4	31.3	35.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9
2.5°	6200.1	6211.9	6133.6	6207.9	6180.5	6176.6	6231.4	6223.6	6243.2	6235.3	6188.4
5°	6204.0	6176.6	6258.8	6184.5	6219.7	6294.1	6243.2	6360.6	6301.9	6341.0	6254.9
7.5°	6325.4	6333.2	6317.5	6348.9	6333.2	6368.4	6341.0	6368.4	6321.5	6325.4	6403.7
10°	6431.1	6407.6	6435.0	6395.8	6423.2	6411.5	6348.9	6329.3	6344.9	6325.4	6376.3
12.5°	6626.8	6583.7	6564.1	6517.2	6485.9	6368.4	6270.6	6215.8	6290.1	6301.9	6278.4
15°	6826.4	6830.3	6740.3	6634.6	6438.9	6262.7	6286.2	6305.8	6305.8	6337.1	6278.4
17.5°	6951.6	6951.6	6869.4	6658.1	6458.5	6356.7	6333.2	6270.6	6215.8	6207.9	6204.0
20°	7170.8	7104.3	6916.4	6654.2	6450.6	6403.7	6227.5	6078.8	5965.3	5926.1	5922.2
22.5°	7421.4	7253.0	6990.8	6662.0	6438.9	6372.3	6043.5	5820.4	5616.9	5530.8	5542.5
25°	7652.3	7382.2	7033.8	6626.8	6395.8	6074.9	5706.9	5397.7	5186.3	5115.9	5080.7
27.5°	7812.8	7519.2	7033.8	6658.1	6235.3	5742.2	5366.4	4971.1	4787.1	4740.1	4747.9
30°	8028.1	7691.4	7155.2	6591.5	5914.4	5311.6	4861.5	4603.1	4493.5	4454.4	4481.8
32.5°	8533.0	8141.6	7323.5	6431.1	5534.7	4881.0	4517.0	4372.2	4211.7	4133.4	4106.0
35°	9081.0	8568.2	7487.9	6161.0	5108.1	4489.6	4262.6	4129.5	3937.7	3851.6	3867.2
37.5°	9856.0	9116.2	7499.6	5714.8	4646.2	4270.4	4063.0	3855.5	3698.9	3565.9	3526.7
40°	10901.1	9863.8	7472.2	5245.0	4274.3	4012.1	3859.4	3601.1	3424.9	3331.0	3350.6
42.5°	11820.9	10740.6	7358.7	4712.7	3937.7	3835.9	3663.7	3409.3	3237.1	3139.2	3131.4
45°	12595.9	11386.5	7143.4	4258.7	3655.9	3640.2	3440.6	3244.9	3107.9	3017.9	3057.0
47.5°	13312.2	11907.0	6818.6	3804.6	3397.5	3428.9	3237.1	3115.7	3029.6	2947.4	2943.5
50°	13570.6	11899.2	6532.8	3428.9	3190.1	3174.4	3166.6	3037.4	2947.4	2876.9	2908.3
52.5°	14001.1	12032.3	6223.6	3170.5	3002.2	3006.1	3033.5	2939.6	2837.8	2794.7	2833.9
55°	14619.6	12051.9	5542.5	2869.1	2845.6	2873.0	2873.0	2810.4	2724.3	2689.1	2669.5
56°	14114.7	11468.7	4971.1	2790.8	2767.4	2767.4	2841.7	2771.3	2665.6	2638.2	2614.7
57.5°	13018.7	10047.8	4160.8	2696.9	2661.7	2716.5	2755.6	2681.2	2583.4	2544.2	2567.7
60°	8979.2	6799.0	3127.5	2493.4	2493.4	2583.4	2614.7	2505.1	2462.0	2458.1	2426.8
62.5°	5241.1	3961.2	2446.4	2309.4	2317.2	2391.6	2415.1	2352.4	2297.6	2364.2	2395.5
65°	2779.1	2364.2	2098.0	2113.7	2117.6	2176.3	2278.1	2274.2	2270.2	2289.8	2293.7
67.5°	2011.9	1964.9	1906.2	1890.6	1898.4	1941.5	2043.2	2121.5	2117.6	2070.6	2035.4
70°	1792.7	1726.2	1690.9	1694.9	1663.5	1714.4	1796.6	1847.5	1757.5	1702.7	1679.2
72.5°	1491.3	1471.7	1448.3	1452.2	1389.5	1377.8	1283.9	1283.9	1260.4	1244.7	1272.1
75°	1139.0	1131.2	1143.0	1123.4	1056.8	986.4	931.6	880.7	802.4	771.1	755.4
77.5°	720.2	743.7	771.1	728.0	700.6	649.8	595.0	544.1	481.4	446.2	446.2
80°	489.3	508.8	528.4	520.6	489.3	442.3	399.2	344.5	301.4	274.0	270.1
82.5°	371.9	387.5	414.9	383.6	352.3	313.1	277.9	238.8	199.6	168.3	168.3
85°	133.1	152.7	168.3	184.0	195.7	199.6	172.2	140.9	113.5	90.0	86.1
87.5°	35.2	39.1	43.1	39.1	39.1	39.1	43.1	39.1	35.2	27.4	27.4
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)