

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: P531827

Luminaire Tested: **GALN-SA7A-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13813 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

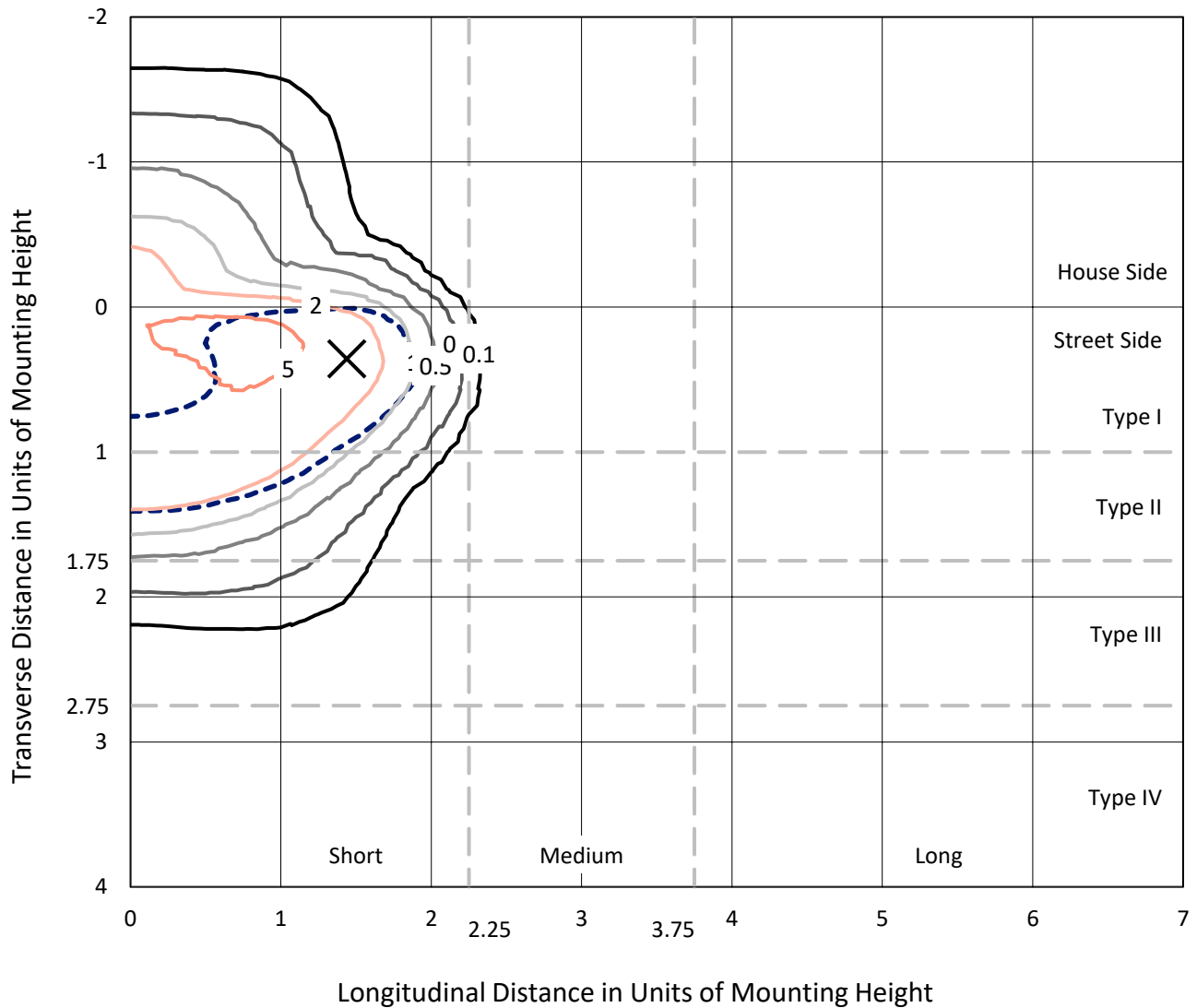
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

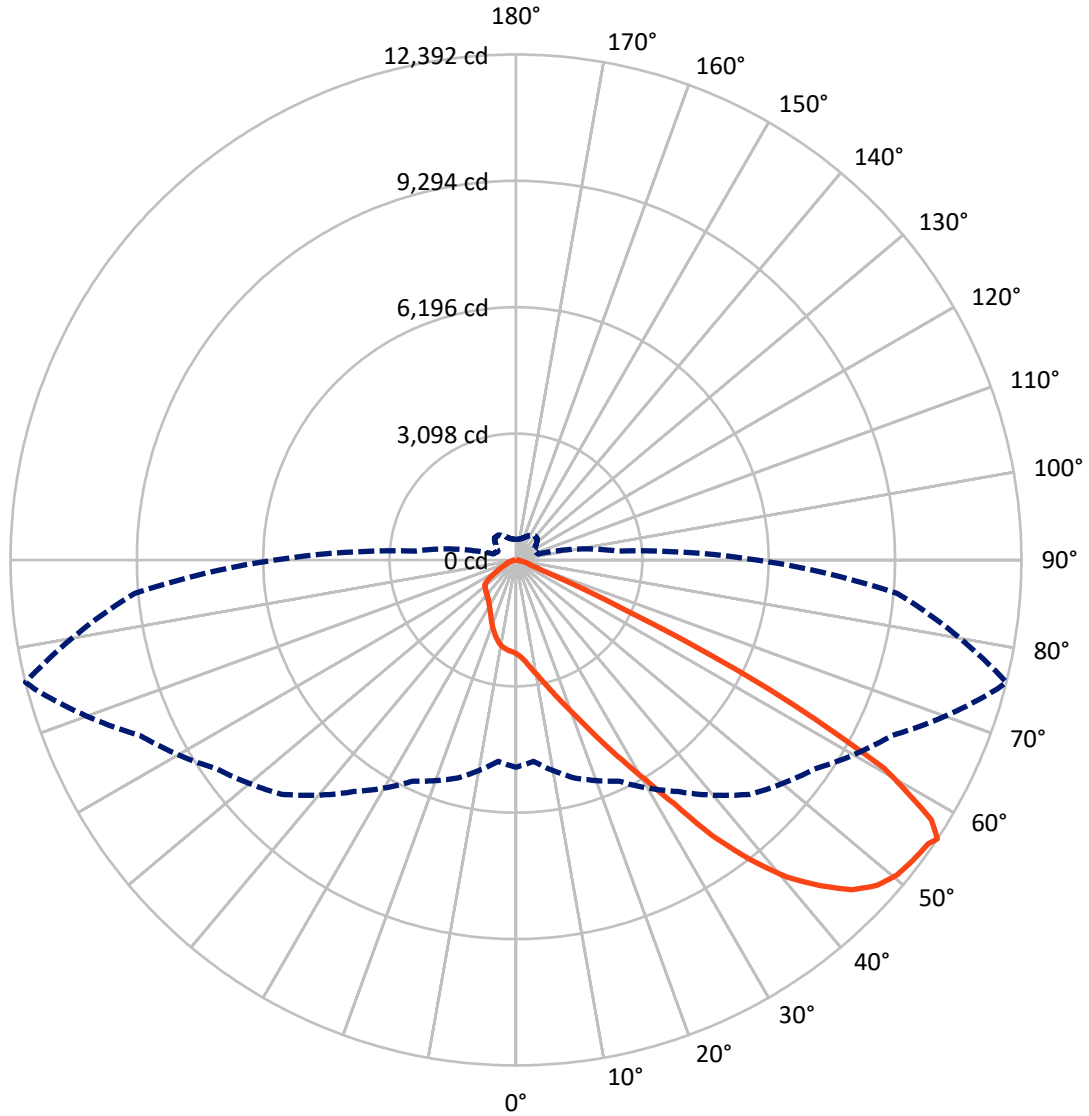
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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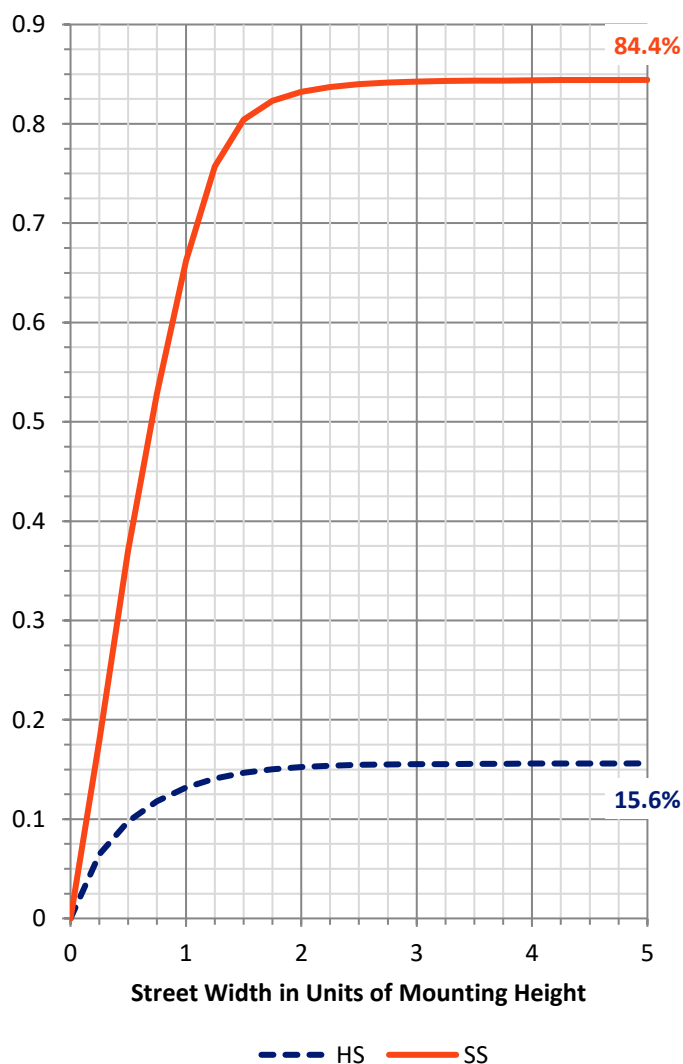
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2169.9	0.0	2169.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11643.0	0.0	11643.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	13813.0	0.0	13813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	1.7
10°-20°	744.1	5.4
20°-30°	1349.2	9.8
30°-40°	2326.8	16.8
40°-50°	3780.0	27.4
50°-60°	3984.2	28.8
60°-70°	1217.3	8.8
70°-80°	156.1	1.1
80°-90°	23.7	0.2
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°	13813.0	100.0
0°-180°	13813.0	100.0

Coefficient of Utilization

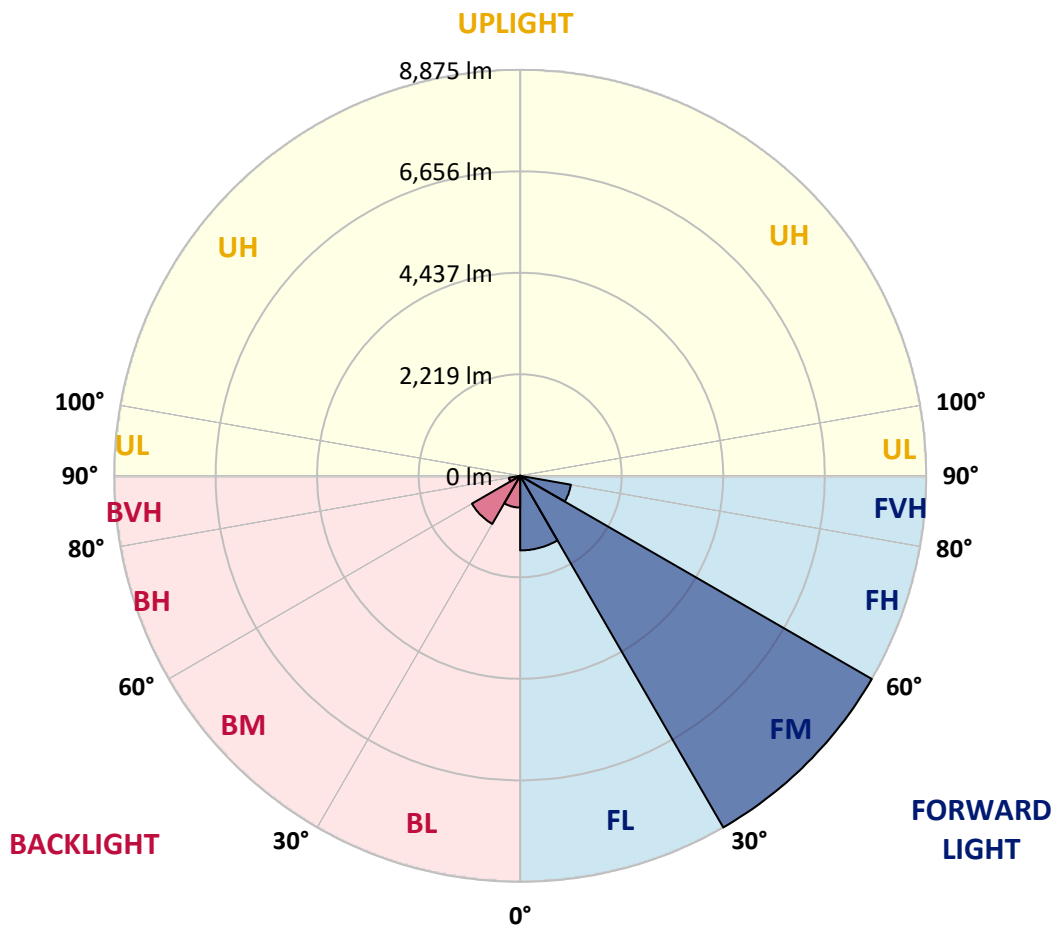


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1630.7	11.8			
FM (30°-60°)	8874.8	64.2			
FH (60°-80°)	1125.8	8.2			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	694.2	5.0	B2/1000		
BM (30°-60°)	1216.1	8.8	B2/2500		
BH (60°-80°)	247.6	1.8	B1/500		G1/500
BVH (80°-90°)	12.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2
2.5°	2648.0	2586.9	2589.5	2584.4	2576.7	2548.7	2464.7	2452.0	2395.9	2380.7	2329.7
5°	2966.3	2912.8	2943.4	2897.5	2854.3	2828.8	2691.3	2627.7	2538.5	2505.4	2434.1
7.5°	3164.9	3139.4	3129.2	3131.8	3091.1	3027.4	2966.3	2826.3	2706.6	2681.1	2530.9
10°	3261.6	3246.4	3261.6	3254.0	3271.8	3279.5	3172.5	3088.5	2912.8	2869.5	2635.3
12.5°	3284.6	3315.1	3327.8	3360.9	3404.2	3478.1	3470.4	3355.9	3121.6	3093.6	2795.7
15°	3340.6	3366.0	3353.3	3406.8	3488.3	3613.0	3679.2	3661.4	3409.3	3358.4	2981.6
17.5°	3391.5	3345.7	3389.0	3495.9	3577.4	3768.3	3928.7	4002.6	3722.5	3663.9	3152.2
20°	3460.2	3447.5	3439.9	3493.3	3638.5	3893.1	4211.4	4346.3	4073.9	4012.8	3396.6
22.5°	3669.0	3671.6	3666.5	3587.6	3692.0	3979.7	4458.3	4791.9	4494.0	4443.1	3674.1
25°	3944.0	3910.9	3885.5	3821.8	3809.1	4058.6	4707.9	5336.8	4998.1	4962.5	3974.6
27.5°	4234.3	4234.3	4157.9	4099.3	4017.9	4254.7	4937.0	5866.4	5606.7	5558.3	4236.8
30°	4550.0	4567.8	4557.7	4432.9	4382.0	4468.5	5171.3	6543.7	6304.3	6243.2	4669.7
32.5°	5016.0	4977.8	5021.1	4916.7	4766.4	4842.8	5540.5	7149.7	7210.8	7124.2	5237.5
35°	5632.1	5609.2	5581.2	5410.6	5232.4	5293.5	6062.4	7895.7	8348.9	8305.6	5810.4
37.5°	6184.7	6171.9	6149.0	6031.9	5825.6	5899.5	6655.7	8672.3	9459.0	9316.4	6620.1
40°	6765.2	6833.9	6760.1	6655.7	6467.3	6630.2	7353.3	9133.1	10393.5	10220.3	7238.8
42.5°	7552.0	7498.5	7531.6	7340.6	7238.8	7417.0	8053.5	9594.0	11119.1	10912.9	7895.7
45°	8389.6	8392.2	8303.1	8242.0	7977.2	8170.7	8483.8	9848.6	11697.1	11536.7	8392.2
47.5°	8926.9	8924.3	9021.1	9117.8	8845.4	8654.4	8776.7	10090.5	11995.0	11921.2	8573.0
50°	8842.9	8868.3	8993.1	9354.6	9497.2	9240.1	9051.6	10019.2	12130.0	12122.3	8728.3
52.5°	7692.0	7776.0	7984.8	8506.8	9224.8	9543.1	9339.4	10151.6	12196.2	12208.9	8960.0
55°	5856.2	5902.0	6299.2	6933.2	7727.6	8817.4	9224.8	10256.0	12247.1	12270.0	9240.1
56°	5079.6	4957.4	5530.3	5981.0	6930.7	8122.3	8934.5	10174.5	12216.5	12392.2	9380.1
57.5°	3834.5	3753.1	4216.5	4779.2	5693.2	6951.1	8033.2	9790.0	12010.3	12007.8	9179.0
60°	2332.3	2250.8	2607.3	2938.3	3450.1	4280.1	5428.4	7796.4	10154.1	10368.0	7432.3
62.5°	1387.7	1438.6	1790.0	1991.1	2156.6	2243.2	2808.4	4634.0	6775.4	6928.1	4611.1
65°	924.3	942.1	1206.9	1537.9	1611.7	1283.3	1143.2	1876.5	2938.3	2844.1	1902.0
67.5°	570.3	611.1	809.7	1156.0	1280.7	937.0	542.3	700.2	809.7	809.7	550.0
70°	346.3	366.6	539.8	786.8	878.4	603.4	394.7	394.7	389.6	381.9	328.5
72.5°	165.5	178.2	275.0	404.8	412.5	318.3	305.5	333.5	325.9	323.4	272.4
75°	71.3	76.4	96.8	127.3	145.1	134.9	185.9	239.3	247.0	239.3	196.1
77.5°	22.9	25.5	35.6	45.8	48.4	58.6	78.9	99.3	114.6	106.9	96.8
80°	2.5	5.1	10.2	22.9	35.6	45.8	58.6	66.2	73.8	73.8	68.7
82.5°	2.5	2.5	10.2	20.4	33.1	43.3	56.0	63.7	73.8	76.4	71.3
85°	0.0	2.5	7.6	17.8	28.0	28.0	25.5	25.5	17.8	17.8	17.8
87.5°	0.0	0.0	2.5	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1
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°	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2
2.5°	2319.6	2314.5	2245.7	2202.4	2179.5	2133.7	2105.7	2085.3	2070.0	2052.2	2054.8
5°	2350.1	2332.3	2217.7	2138.8	2044.6	1993.7	1950.4	1914.7	1891.8	1886.7	1876.5
7.5°	2436.7	2342.5	2169.3	2026.8	1907.1	1856.2	1818.0	1795.1	1805.2	1782.3	1800.1
10°	2502.9	2362.8	2110.8	1904.5	1784.9	1746.7	1726.3	1744.1	1769.6	1759.4	1746.7
12.5°	2584.4	2383.2	2016.6	1787.4	1675.4	1647.4	1683.0	1716.1	1767.0	1787.4	1762.0
15°	2676.0	2406.1	1896.9	1652.5	1581.2	1604.1	1665.2	1723.8	1774.7	1800.1	1815.4
17.5°	2788.1	2398.5	1779.8	1545.5	1492.1	1558.3	1632.1	1685.6	1762.0	1800.1	1790.0
20°	2892.5	2373.0	1649.9	1438.6	1441.1	1502.2	1563.4	1649.9	1690.7	1741.6	1723.8
22.5°	2991.8	2327.2	1515.0	1364.7	1364.7	1459.0	1489.5	1545.5	1581.2	1606.6	1604.1
25°	3131.8	2240.6	1402.9	1293.5	1324.0	1385.1	1410.6	1428.4	1413.1	1433.5	1436.0
27.5°	3231.1	2151.5	1311.3	1229.8	1285.8	1331.6	1324.0	1313.8	1278.2	1250.2	1268.0
30°	3338.0	2047.1	1232.3	1186.5	1217.1	1257.8	1227.3	1196.7	1140.7	1094.9	1097.4
32.5°	3490.8	1998.7	1163.6	1135.6	1176.3	1181.4	1148.3	1102.5	1046.5	1003.2	1000.6
35°	3776.0	1968.2	1105.0	1102.5	1110.1	1112.7	1079.6	1023.6	1000.6	965.0	977.7
37.5°	4061.1	1952.9	1064.3	1054.1	1051.6	1054.1	1015.9	962.5	1005.7	1003.2	1008.3
40°	4425.2	2021.7	1005.7	993.0	995.6	995.6	947.2	931.9	1008.3	1015.9	1018.5
42.5°	4794.4	2108.2	967.5	926.8	937.0	937.0	911.5	893.7	947.2	896.3	888.6
45°	5115.3	2235.5	926.8	860.6	886.1	898.8	891.2	860.6	827.5	740.9	740.9
47.5°	5219.7	2347.6	878.4	797.0	817.3	873.3	850.4	786.8	728.2	656.9	651.8
50°	5403.0	2469.8	840.2	723.1	766.4	835.1	812.2	748.6	682.4	631.5	634.0
52.5°	5591.4	2609.8	768.9	636.5	690.0	804.6	804.6	733.3	631.5	595.8	590.7
55°	5874.0	2604.7	641.6	522.0	616.2	758.8	771.5	656.9	565.3	537.2	537.2
56°	5914.8	2487.6	578.0	488.9	583.1	746.0	748.6	636.5	539.8	509.2	509.2
57.5°	5609.2	2245.7	506.7	448.1	542.3	723.1	725.7	618.7	519.4	476.1	471.0
60°	4315.8	1520.1	422.7	399.7	491.4	651.8	664.6	562.7	455.8	422.7	420.1
62.5°	2436.7	842.8	371.7	361.6	422.7	555.1	593.3	491.4	387.0	369.2	374.3
65°	1112.7	463.4	313.2	292.8	341.2	427.8	478.7	404.8	318.3	297.9	297.9
67.5°	407.4	315.7	267.3	231.7	239.3	277.5	310.6	262.3	211.3	180.8	188.4
70°	290.3	264.8	234.2	201.1	185.9	180.8	178.2	147.7	104.4	81.5	86.6
72.5°	234.2	219.0	196.1	170.6	145.1	122.2	104.4	76.4	48.4	33.1	30.6
75°	168.0	160.4	142.6	122.2	101.8	86.6	71.3	48.4	25.5	12.7	12.7
77.5°	86.6	86.6	84.0	76.4	63.7	50.9	40.7	28.0	15.3	5.1	5.1
80°	66.2	71.3	73.8	66.2	58.6	45.8	33.1	20.4	10.2	2.5	2.5
82.5°	63.7	73.8	78.9	68.7	58.6	43.3	33.1	20.4	10.2	2.5	2.5
85°	15.3	15.3	22.9	25.5	33.1	35.6	28.0	17.8	7.6	2.5	2.5
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	0.0
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)