

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: P529488

Luminaire Tested: **GALN-SA4C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17149 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

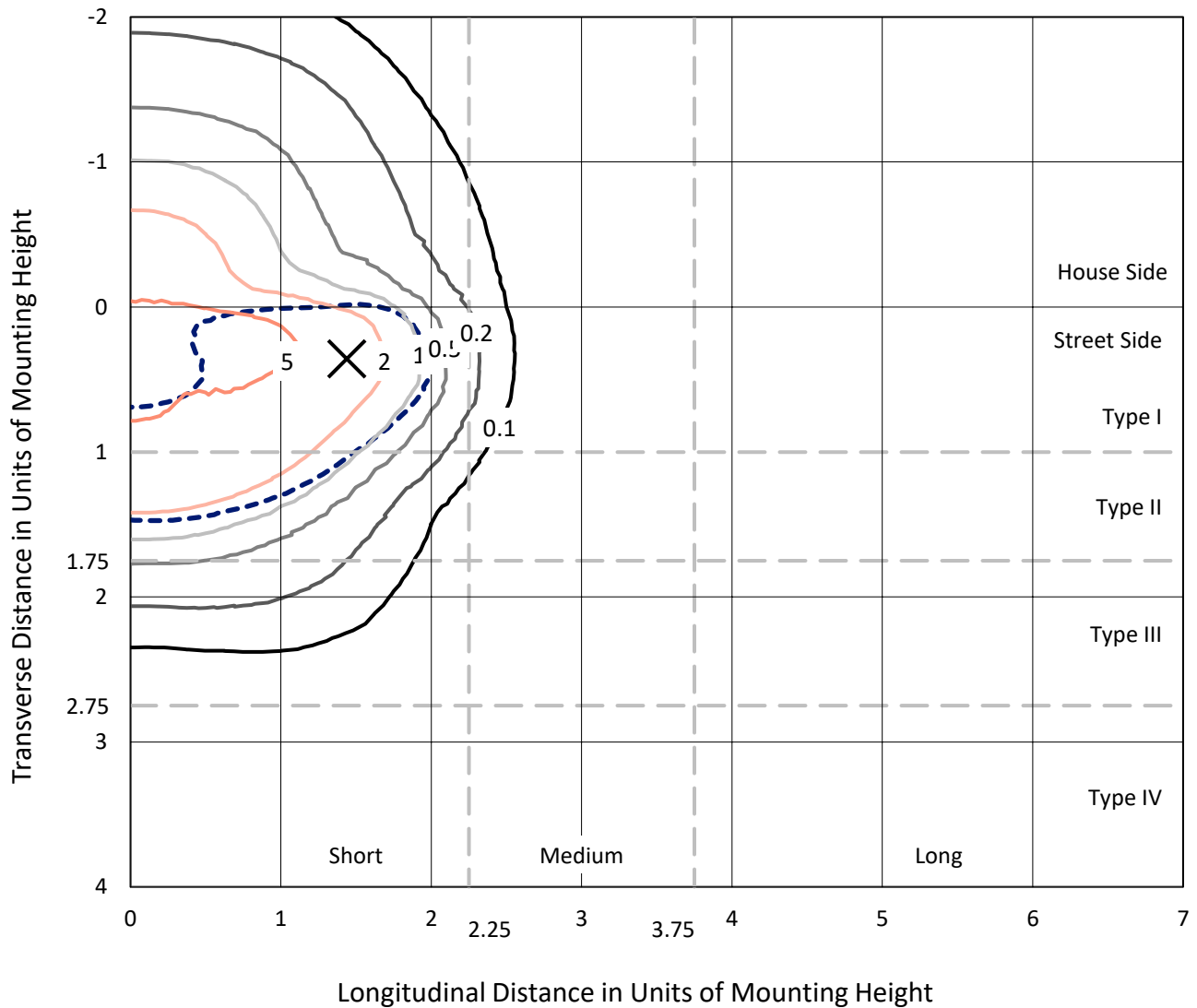
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529488
 CATALOG NUMBER: GALN-SA4C-827-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

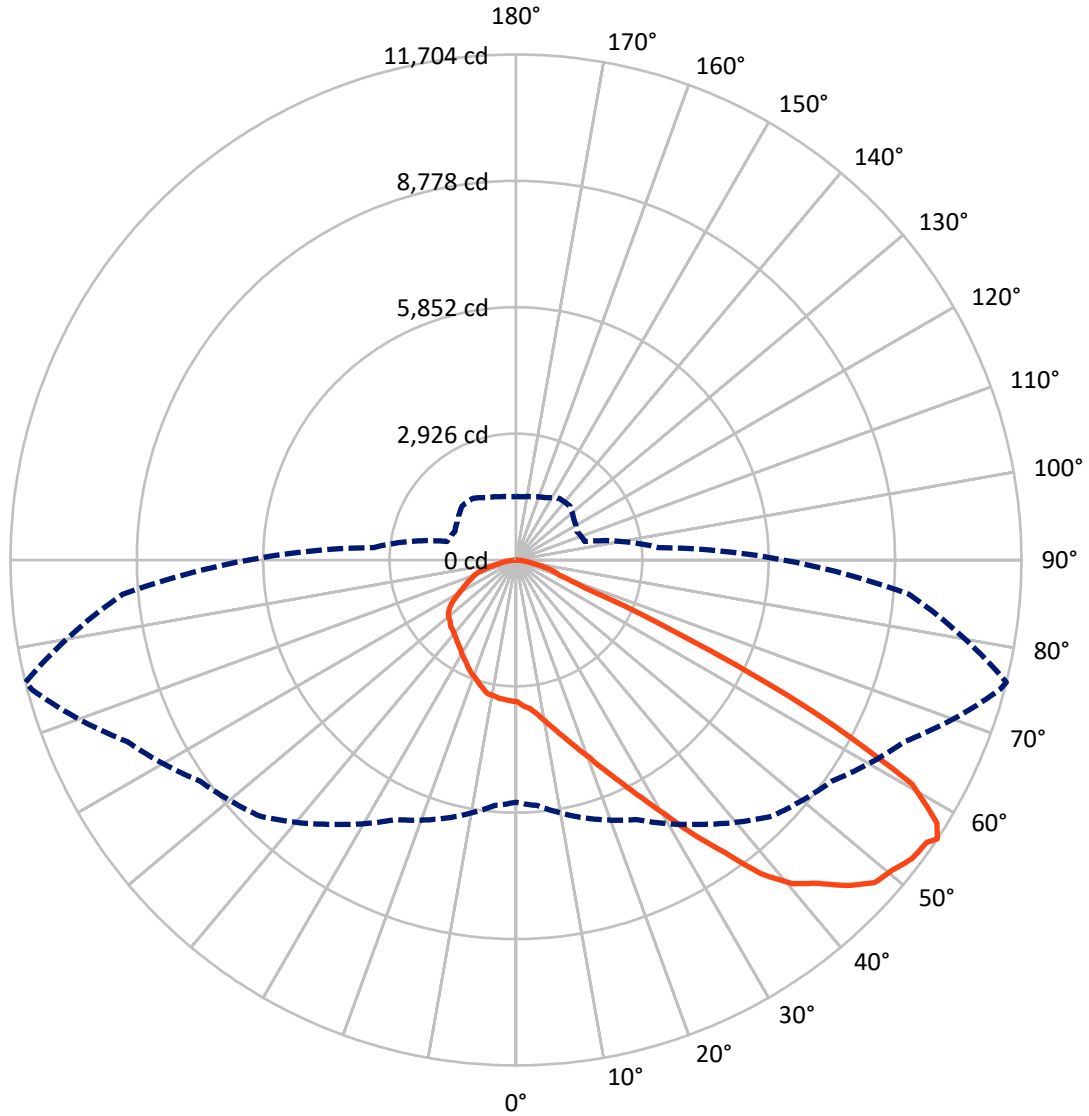
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P529488
CATALOG NUMBER: GALN-SA4C-827-U-T2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529488
 CATALOG NUMBER: GALN-SA4C-827-U-T2-GRSWH

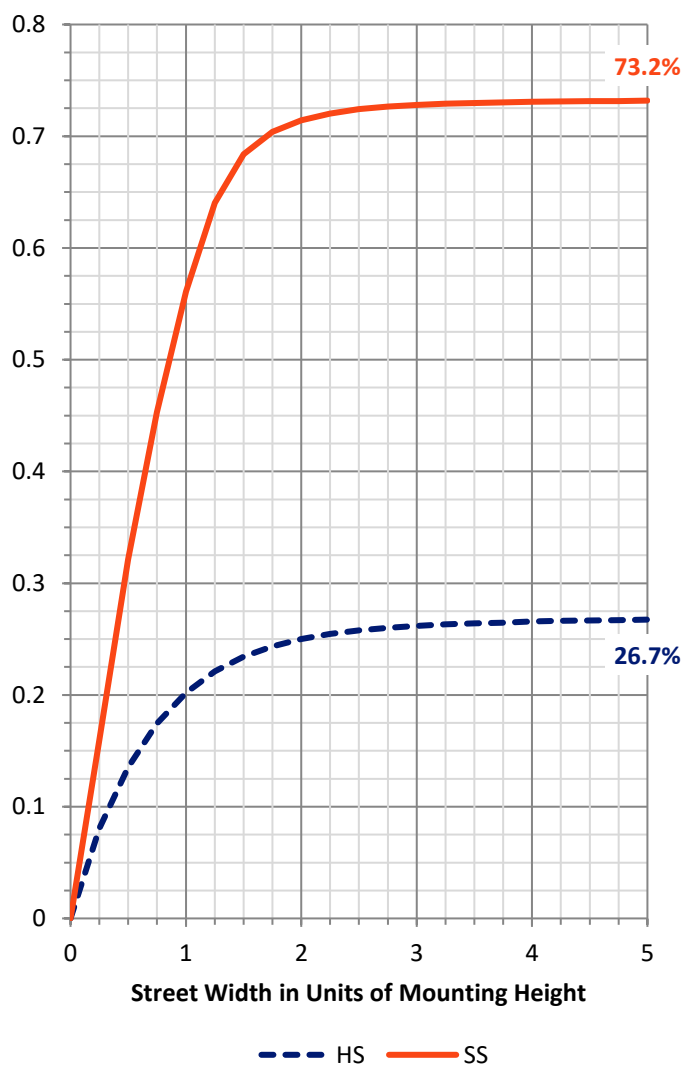
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4610.8	0.0	4610.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12538.1	0.0	12538.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	17149.0	0.0	17149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.4	1.9
10°-20°	1022.2	6.0
20°-30°	1787.7	10.4
30°-40°	2799.0	16.3
40°-50°	4071.7	23.7
50°-60°	4475.1	26.1
60°-70°	1997.5	11.6
70°-80°	576.9	3.4
80°-90°	93.6	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°	17149.0	100.0
0°-180°	17149.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529488

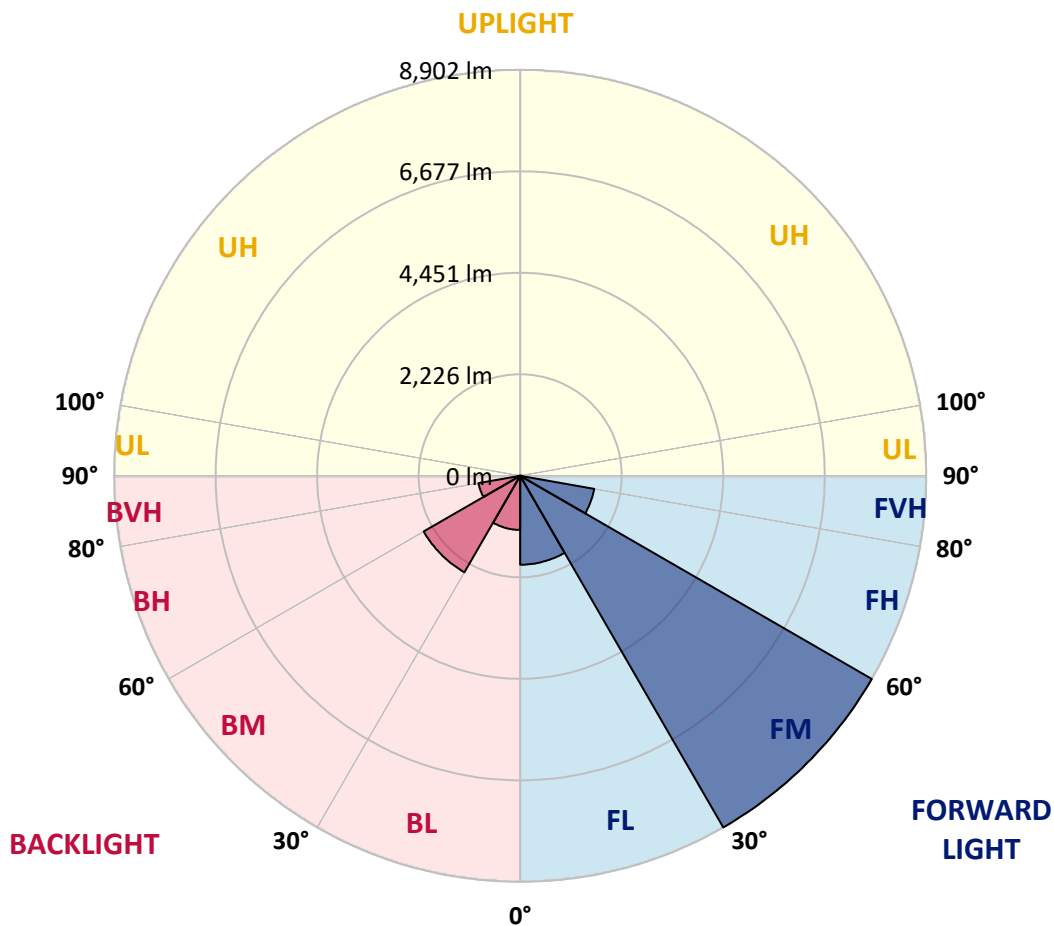
CATALOG NUMBER: GALN-SA4C-827-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1948.8	11.4			
FM (30°-60°)	8902.4	51.9			
FH (60°-80°)	1646.7	9.6			G1/1800
FVH (80°-90°)	40.3	0.2			G1/100
BL (0°-30°)	1186.5	6.9	B3/2500		
BM (30°-60°)	2443.4	14.2	B2/2500		
BH (60°-80°)	927.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	53.3	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-G2

Type II Short





REPORT NUMBER: P529488

CATALOG NUMBER: GALN-SA4C-827-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2
2.5°	3614.7	3556.9	3552.5	3536.9	3545.8	3505.8	3463.5	3408.0	3350.2	3385.7	3301.2
5°	3868.1	3790.3	3821.4	3768.1	3774.8	3721.4	3634.7	3570.2	3499.1	3456.9	3396.8
7.5°	3957.1	3963.7	3986.0	3977.1	3932.6	3932.6	3874.8	3761.4	3636.9	3612.5	3512.4
10°	4077.1	4079.3	4054.9	4061.5	4123.8	4094.9	4043.8	3994.8	3834.8	3805.9	3628.0
12.5°	4119.3	4079.3	4119.3	4154.9	4228.3	4268.3	4257.2	4221.6	4050.4	4030.4	3770.3
15°	4126.0	4101.6	4134.9	4214.9	4279.4	4448.3	4532.8	4508.4	4281.6	4283.8	3930.4
17.5°	4094.9	4128.2	4141.6	4210.5	4359.4	4517.3	4761.8	4795.1	4608.4	4579.5	4132.7
20°	4137.1	4112.7	4130.5	4192.7	4390.5	4637.3	4957.4	5177.5	4915.2	4895.2	4341.6
22.5°	4299.4	4266.1	4261.6	4301.6	4443.9	4699.6	5164.2	5559.9	5288.7	5299.8	4601.7
25°	4426.1	4443.9	4428.3	4426.1	4515.0	4792.9	5437.6	6015.6	5795.5	5731.1	4908.5
27.5°	4644.0	4686.2	4655.1	4697.3	4677.3	4933.0	5633.2	6520.2	6342.4	6255.7	5186.4
30°	4946.3	4968.5	4939.6	4939.6	4879.6	5128.6	5811.1	7047.1	6973.7	6855.9	5513.2
32.5°	5344.2	5377.6	5319.8	5286.4	5277.6	5419.8	6131.2	7567.3	7691.8	7591.8	5946.7
35°	5871.1	5851.1	5782.2	5751.1	5631.0	5866.7	6606.9	8165.3	8492.1	8314.3	6471.3
37.5°	6335.7	6304.6	6300.2	6126.8	6155.7	6349.1	7011.5	8618.8	9267.9	9216.8	7024.9
40°	6769.2	6798.1	6844.8	6747.0	6702.5	6915.9	7482.8	8965.6	9870.4	9850.4	7451.7
42.5°	7233.8	7207.2	7289.4	7207.2	7140.5	7442.8	7994.1	9205.7	10399.5	10235.0	7898.5
45°	7907.4	7823.0	7851.9	7858.5	7809.6	7920.8	8205.3	9379.1	10770.7	10753.0	8225.3
47.5°	8469.9	8472.1	8423.2	8385.4	8236.4	8347.6	8441.0	9488.0	11197.6	11168.7	8352.0
50°	8678.8	8649.9	8792.2	8874.5	8883.4	8656.6	8625.5	9548.1	11422.1	11295.4	8478.8
52.5°	7927.4	7954.1	8178.6	8667.7	8950.1	8974.5	8841.1	9672.5	11513.2	11486.6	8581.0
55°	6380.2	6509.1	6878.2	7442.8	8112.0	8847.8	9074.5	9801.5	11562.2	11539.9	9034.5
56°	5608.8	5708.8	6189.0	6631.4	7471.7	8387.6	8927.8	9939.3	11599.9	11704.4	9141.2
57.5°	4515.0	4630.6	4975.2	5477.6	6469.1	7511.7	8523.2	9770.4	11453.2	11493.2	9219.0
60°	2823.3	2834.4	3247.9	3579.1	4277.2	5295.3	6504.7	8501.0	10599.6	10541.8	8280.9
62.5°	1851.8	1854.0	2229.7	2500.9	2818.8	3052.3	3828.1	5637.7	7820.7	7718.5	5895.6
65°	1300.5	1329.4	1620.6	1983.0	2111.9	1989.6	1965.2	2972.2	4368.3	4221.6	3167.9
67.5°	951.5	953.7	1211.6	1600.6	1787.3	1513.9	1229.4	1451.7	1729.5	1725.1	1467.2
70°	629.1	655.8	853.7	1196.0	1409.4	1216.0	1004.8	1038.2	1100.4	1100.4	1091.5
72.5°	366.8	391.3	522.4	758.1	791.4	760.3	795.9	889.2	929.2	927.0	915.9
75°	209.0	220.1	249.0	315.7	393.5	464.6	584.7	673.6	713.6	738.1	709.2
77.5°	122.3	128.9	146.7	180.1	204.5	251.2	317.9	380.1	433.5	426.8	431.3
80°	64.5	64.5	82.3	106.7	142.3	177.8	211.2	246.8	275.7	282.3	289.0
82.5°	37.8	40.0	53.4	77.8	102.3	126.7	162.3	186.7	213.4	215.6	220.1
85°	20.0	22.2	33.3	51.1	68.9	77.8	80.0	75.6	82.3	77.8	88.9
87.5°	6.7	6.7	11.1	8.9	8.9	11.1	13.3	13.3	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529488

CATALOG NUMBER: GALN-SA4C-827-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2	3281.2
2.5°	3299.0	3299.0	3261.2	3190.1	3179.0	3150.1	3123.4	3121.2	3101.2	3083.4	3074.5
5°	3361.3	3292.4	3236.8	3172.3	3096.7	3061.2	3021.1	2976.7	2958.9	2976.7	2974.5
7.5°	3432.4	3374.6	3207.9	3087.8	3001.1	2965.6	2921.1	2874.4	2878.9	2878.9	2847.7
10°	3501.3	3423.5	3156.7	3003.4	2876.6	2850.0	2825.5	2843.3	2865.5	2870.0	2850.0
12.5°	3616.9	3441.3	3132.3	2918.9	2838.9	2781.1	2796.6	2845.5	2892.2	2878.9	2894.4
15°	3703.6	3456.9	3021.1	2832.2	2732.1	2758.8	2814.4	2847.7	2925.6	2916.7	2932.2
17.5°	3788.1	3465.8	2912.2	2716.6	2674.3	2747.7	2789.9	2885.5	2910.0	2963.3	2983.4
20°	3961.5	3483.5	2801.1	2645.4	2632.1	2716.6	2789.9	2834.4	2887.8	2934.4	2934.4
22.5°	4050.4	3474.6	2727.7	2552.1	2594.3	2647.7	2714.4	2789.9	2789.9	2834.4	2836.6
25°	4161.6	3439.1	2612.1	2507.6	2538.7	2589.9	2665.5	2638.8	2667.7	2667.7	2703.2
27.5°	4288.3	3363.5	2512.1	2427.6	2489.8	2545.4	2556.5	2538.7	2505.4	2500.9	2487.6
30°	4390.5	3270.1	2438.7	2400.9	2452.0	2483.2	2447.6	2409.8	2352.0	2347.6	2316.4
32.5°	4530.6	3154.5	2347.6	2334.2	2392.0	2394.2	2383.1	2325.3	2240.8	2205.3	2169.7
35°	4766.2	3087.8	2278.6	2298.6	2316.4	2309.8	2289.8	2227.5	2143.0	2127.5	2114.1
37.5°	4939.6	3038.9	2207.5	2232.0	2247.5	2256.4	2196.4	2127.5	2129.7	2098.6	2089.7
40°	5135.3	3007.8	2149.7	2160.8	2163.0	2191.9	2118.6	2085.2	2100.8	2080.8	2094.1
42.5°	5386.5	3016.7	2089.7	2080.8	2123.0	2111.9	2076.3	2031.9	2040.8	1980.7	1989.6
45°	5519.9	3076.7	2054.1	2014.1	2060.8	2058.6	2011.9	1969.6	1916.3	1800.7	1805.1
47.5°	5608.8	3092.3	1969.6	1943.0	1991.9	2020.8	1967.4	1869.6	1794.0	1711.8	1691.8
50°	5699.9	3121.2	1929.6	1874.0	1894.0	1963.0	1896.3	1802.9	1729.5	1656.2	1667.3
52.5°	5780.0	3176.8	1851.8	1769.6	1805.1	1880.7	1845.1	1731.8	1651.7	1591.7	1573.9
55°	6135.7	3301.2	1720.7	1613.9	1698.4	1794.0	1774.0	1636.2	1549.5	1518.4	1513.9
56°	6191.2	3305.7	1651.7	1560.6	1638.4	1765.1	1740.7	1593.9	1516.1	1467.2	1469.4
57.5°	6200.1	3252.3	1553.9	1511.7	1578.4	1722.9	1691.8	1560.6	1453.9	1409.4	1396.1
60°	5455.4	2538.7	1431.7	1405.0	1482.8	1593.9	1582.8	1469.4	1349.4	1298.3	1322.7
62.5°	3719.2	1860.7	1336.1	1331.6	1371.6	1480.6	1451.7	1349.4	1249.4	1216.0	1200.5
65°	2165.3	1411.6	1242.7	1224.9	1258.3	1316.1	1336.1	1229.4	1124.9	1102.6	1096.0
67.5°	1278.3	1167.1	1122.6	1093.7	1082.6	1118.2	1133.8	1071.5	967.0	935.9	962.6
70°	1069.3	1038.2	1040.4	991.5	964.8	940.4	927.0	871.4	784.7	744.7	733.6
72.5°	922.6	909.2	900.3	855.9	831.4	775.8	718.0	662.5	598.0	564.7	566.9
75°	704.7	700.3	704.7	682.5	640.2	595.8	542.4	471.3	422.4	380.1	389.0
77.5°	420.2	433.5	440.2	431.3	413.5	373.5	340.1	293.4	246.8	213.4	209.0
80°	289.0	300.1	311.2	300.1	282.3	253.4	217.9	182.3	148.9	131.2	126.7
82.5°	220.1	231.2	237.9	226.8	204.5	173.4	148.9	124.5	97.8	80.0	75.6
85°	80.0	91.1	88.9	106.7	115.6	111.2	95.6	73.4	55.6	40.0	37.8
87.5°	22.2	20.0	22.2	22.2	22.2	20.0	17.8	17.8	17.8	11.1	8.9
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)