

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: P531582

Luminaire Tested: **GALN-SA6D-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30430 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

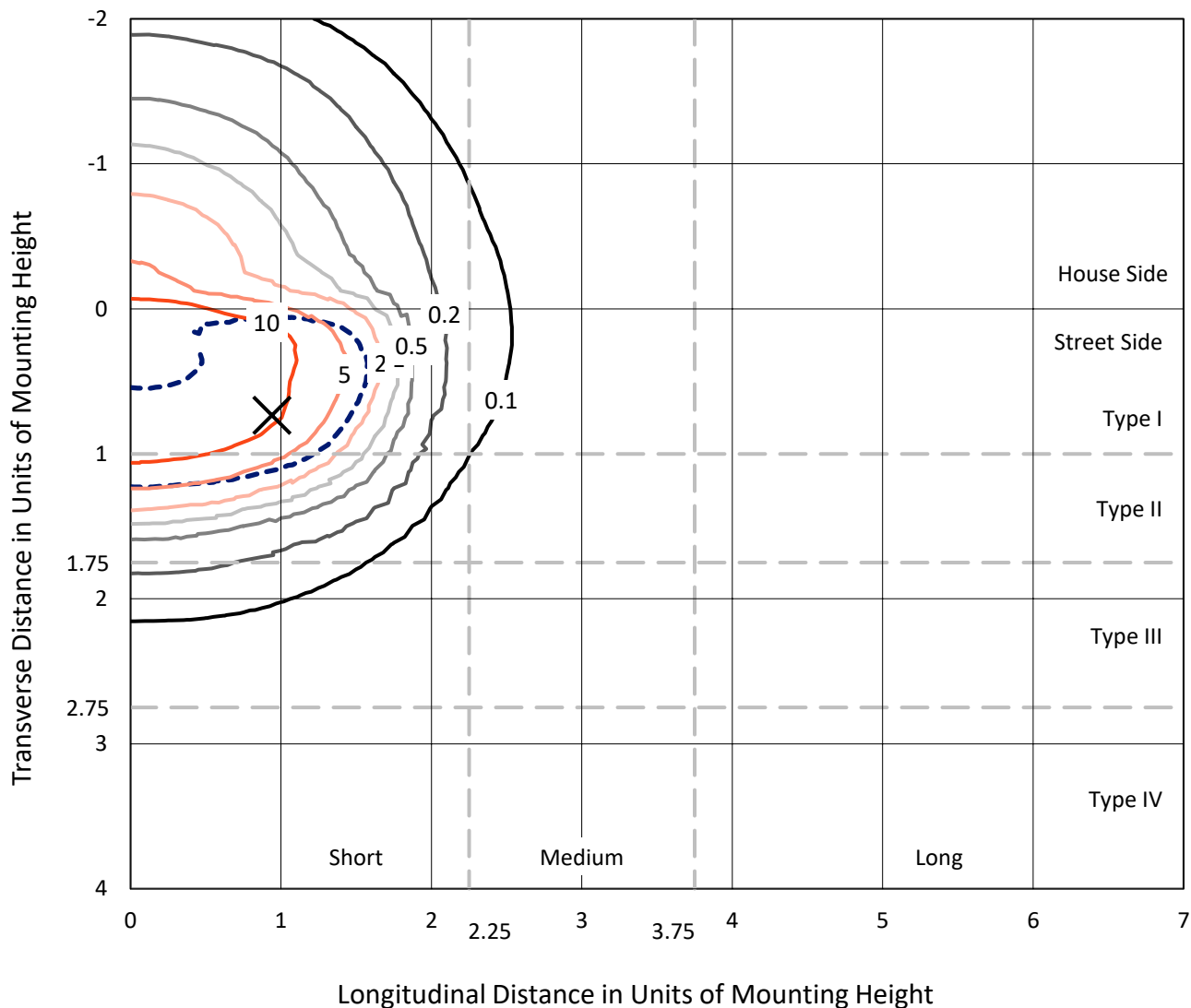
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531582
 CATALOG NUMBER: GALN-SA6D-827-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

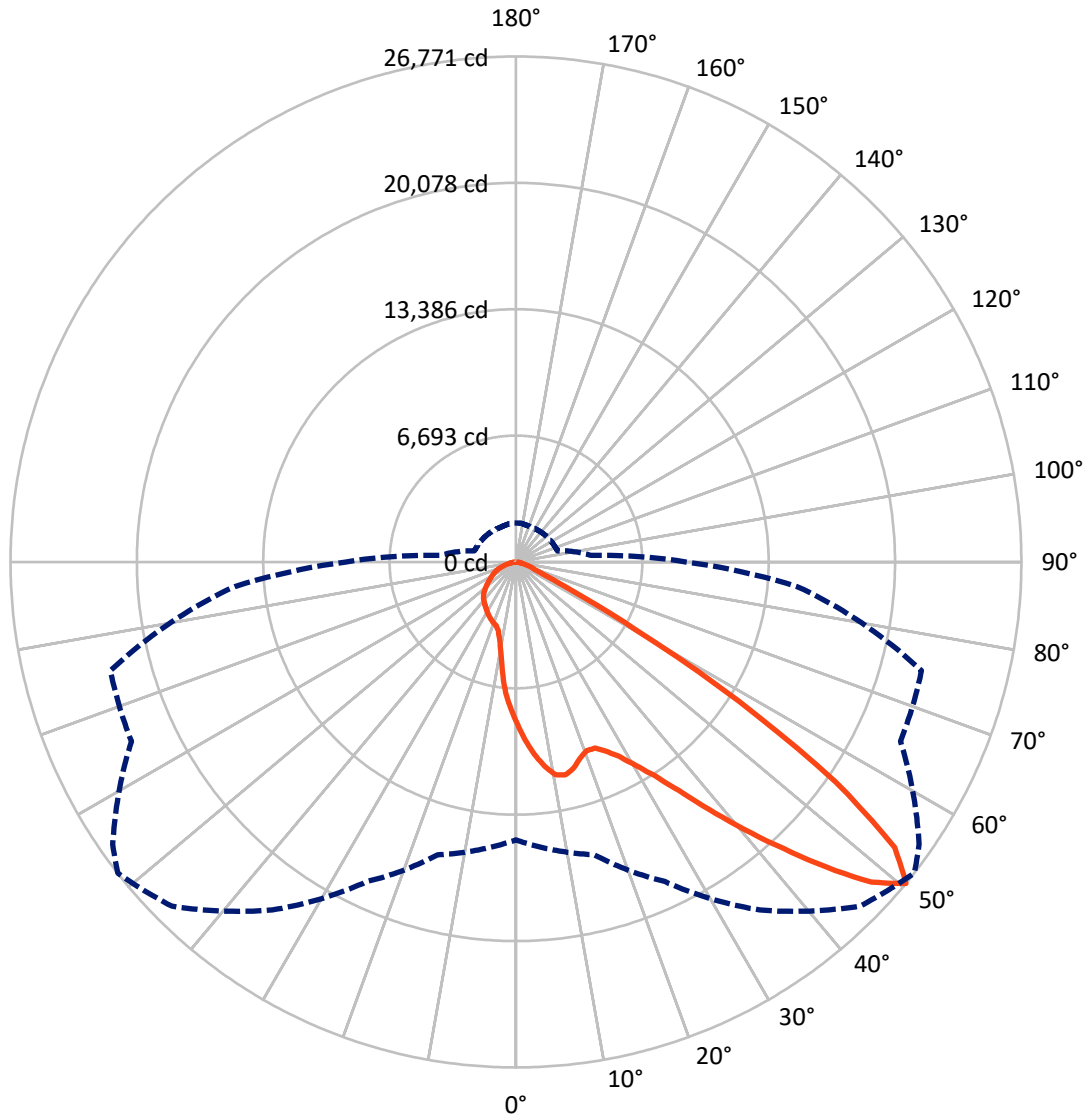
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

REPORT NUMBER: P531582
CATALOG NUMBER: GALN-SA6D-827-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P531582
 CATALOG NUMBER: GALN-SA6D-827-U-AFL-GRSWH

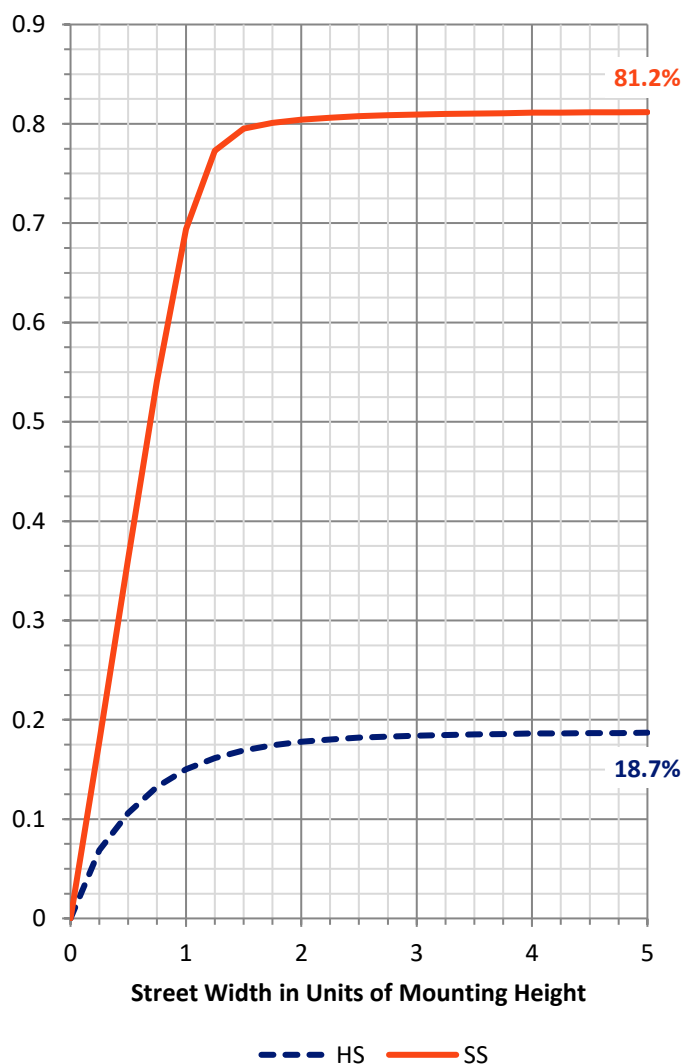
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5720.1	0.0	5720.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24709.9	0.0	24709.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	30430.0	0.0	30430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.6	2.6
10°-20°	2119.0	7.0
20°-30°	3569.4	11.7
30°-40°	5989.8	19.7
40°-50°	9162.9	30.1
50°-60°	6680.5	22.0
60°-70°	1486.7	4.9
70°-80°	536.2	1.8
80°-90°	94.9	0.3
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°	30430.0	100.0
0°-180°	30430.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531582

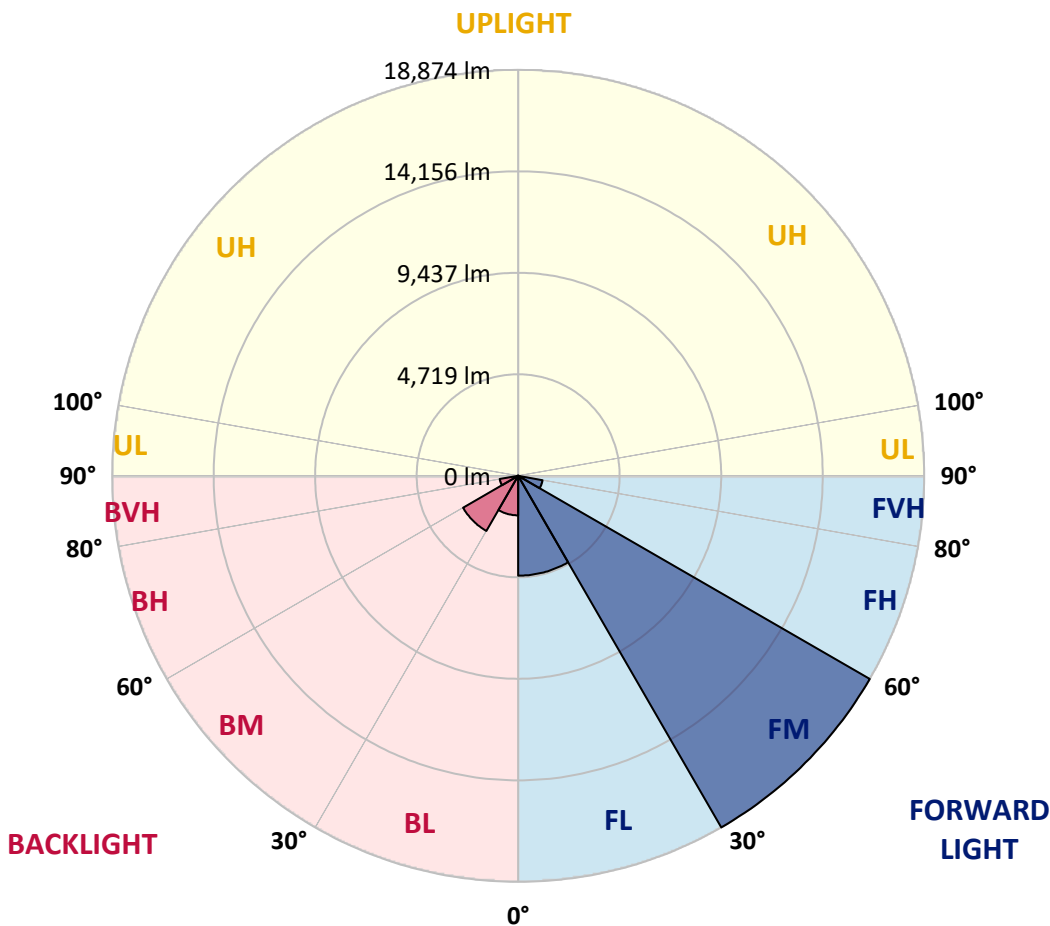
CATALOG NUMBER: GALN-SA6D-827-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4641.6	15.3			
FM (30°-60°)	18874.2	62.0			
FH (60°-80°)	1151.5	3.8			G1/1800
FVH (80°-90°)	42.5	0.1			G1/100
BL (0°-30°)	1837.4	6.0	B3/2500		
BM (30°-60°)	2958.8	9.7	B3/5000		
BH (60°-80°)	871.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	52.4	0.2			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: P531582

CATALOG NUMBER: GALN-SA6D-827-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7
2.5°	10099.6	9905.3	9927.3	9787.9	9637.5	9593.5	9439.5	9292.8	9182.8	8948.1	8731.7
5°	11038.4	10979.8	10891.8	10781.7	10668.0	10389.3	10231.6	10048.3	9644.9	9281.8	8922.4
7.5°	11174.1	11163.1	11210.8	11210.8	11251.1	11144.8	10921.1	10792.7	10363.7	9773.2	9105.8
10°	10220.6	10253.6	10484.7	10785.4	11203.5	11493.2	11456.5	11423.5	10954.1	10147.3	9322.2
12.5°	9461.5	9388.2	9523.9	9780.6	10407.7	11108.1	11581.2	11584.9	11463.8	10745.1	9479.9
15°	9032.5	9083.8	9120.5	9241.5	9714.6	10525.0	11357.5	11603.2	12135.0	11166.8	9729.2
17.5°	9307.5	9135.1	9127.8	9157.1	9399.2	10007.9	10943.1	11364.8	12501.7	11709.5	10037.3
20°	9666.9	9663.2	9560.5	9523.9	9520.2	10063.0	10671.7	11243.8	12696.0	12413.7	10349.0
22.5°	10297.7	10297.7	10129.0	10048.3	9875.9	10319.7	10708.4	11097.1	13018.8	12897.7	10499.4
25°	11353.8	11181.5	10891.8	10693.7	10594.7	10752.4	11097.1	11445.5	13301.1	13411.2	10811.1
27.5°	12329.3	12057.9	11914.9	11573.9	11441.8	11350.2	11665.5	12017.6	13631.2	14210.6	10979.8
30°	13436.8	13389.2	13132.4	12692.4	12366.0	12197.3	12487.0	12835.4	14236.3	15028.4	11368.5
32.5°	15417.1	14984.4	14636.0	14096.9	13565.2	13205.8	13491.8	13722.9	15241.1	15882.9	11793.9
35°	17555.2	17415.8	16814.4	15842.5	15028.4	14705.7	14874.4	15046.8	16411.0	17188.4	12509.0
37.5°	19656.5	19465.8	18970.7	18152.9	17162.8	16506.3	16627.3	16829.0	17723.8	18948.7	13381.8
40°	21167.4	20932.7	20683.3	20562.3	19579.5	18681.0	18611.3	18662.7	19498.8	20599.0	14350.0
42.5°	21277.4	21567.1	21644.1	22131.9	21900.9	21163.7	20734.7	20745.7	21193.1	22230.9	15329.1
45°	21046.4	20778.7	21347.1	22678.3	23441.1	23785.8	23063.4	22971.7	22241.9	23177.1	15816.9
47.5°	18622.3	18695.7	19656.5	21761.5	23965.5	25505.8	25337.1	25032.7	22803.0	23144.1	15739.9
50°	14720.4	15164.1	16055.2	18677.3	22498.6	25777.1	26771.0	26066.9	22469.3	22234.6	14955.1
52.5°	9802.6	9985.9	10572.7	13957.6	18090.6	23041.4	25120.7	25282.1	22161.2	21042.7	13961.2
55°	4364.0	4349.4	5174.5	7290.5	11350.2	17533.2	20525.6	21508.5	20976.7	19828.9	12993.1
57.5°	1848.3	1910.6	2248.0	3150.2	5581.6	10580.0	13906.2	14768.0	16132.3	16282.6	9967.6
60°	1250.5	1257.9	1349.6	1576.9	2336.0	4969.1	7294.2	8328.3	9303.8	9237.8	5288.2
62.5°	982.8	1008.5	1078.2	1169.9	1386.2	2255.4	3263.9	3839.6	3902.0	3282.2	2006.0
65°	839.8	843.5	913.1	990.2	1085.5	1312.9	1573.3	1602.6	1620.9	1562.3	1474.2
67.5°	693.1	700.4	755.5	843.5	931.5	1004.8	1078.2	1114.8	1199.2	1364.2	1342.2
70°	550.1	561.1	608.8	682.1	762.8	806.8	898.5	931.5	1008.5	1136.8	1188.2
72.5°	418.1	421.7	462.1	513.4	586.8	630.8	707.8	744.5	795.8	905.8	953.5
75°	300.7	311.7	341.1	366.7	377.7	407.1	480.4	520.8	594.1	641.8	645.4
77.5°	157.7	165.0	172.4	172.4	209.0	264.0	311.7	333.7	385.1	421.7	403.4
80°	62.3	66.0	84.3	113.7	146.7	190.7	223.7	234.7	278.7	300.7	311.7
82.5°	36.7	40.3	55.0	80.7	106.4	135.7	161.4	172.4	201.7	227.4	234.7
85°	18.3	22.0	33.0	51.3	69.7	84.3	80.7	77.0	77.0	73.3	77.0
87.5°	7.3	7.3	11.0	11.0	11.0	14.7	18.3	18.3	18.3	22.0	22.0
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: P531582

CATALOG NUMBER: GALN-SA6D-827-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7	8577.7
2.5°	8588.7	8442.0	8306.3	8057.0	7785.6	7708.6	7393.2	7279.5	7198.8	7103.5	7074.1
5°	8632.7	8438.4	8002.0	7499.5	7099.8	6586.4	6249.0	5885.9	5621.9	5555.9	5537.6
7.5°	8724.4	8390.7	7638.9	6879.8	6062.0	5365.2	4833.4	4547.4	4294.4	4279.7	4254.0
10°	8827.1	8247.7	7242.8	6051.0	5005.8	4360.4	4041.3	3916.6	3854.3	3839.6	3832.3
12.5°	8911.4	8218.3	6799.1	5244.2	4257.7	3869.0	3773.6	3762.6	3788.3	3795.6	3810.3
15°	8948.1	8101.0	6263.7	4521.7	3791.9	3648.9	3689.3	3733.3	3751.6	3799.3	3762.6
17.5°	9017.8	7950.6	5603.6	3949.6	3531.6	3557.2	3626.9	3678.3	3707.6	3740.6	3692.9
20°	9054.5	7814.9	4983.8	3608.6	3439.9	3487.6	3582.9	3623.2	3659.9	3674.6	3619.6
22.5°	9021.5	7536.2	4437.4	3333.5	3351.9	3414.2	3498.6	3542.6	3520.6	3461.9	3428.9
25°	8933.4	7143.8	3869.0	3157.5	3227.2	3337.2	3403.2	3370.2	3329.9	3296.9	3285.9
27.5°	8929.8	6663.4	3458.2	2996.1	3120.8	3271.2	3249.2	3219.9	3238.2	3212.5	3183.2
30°	8948.1	6197.7	3120.8	2904.5	3043.8	3117.2	3142.8	3113.5	3135.5	3087.8	3102.5
32.5°	8852.8	5742.9	2900.8	2798.1	2952.1	2948.5	3032.8	3054.8	3003.5	2904.5	2919.1
35°	8893.1	5376.2	2713.8	2750.4	2849.5	2849.5	2915.5	2889.8	2754.1	2695.4	2710.1
37.5°	9171.8	5016.8	2622.1	2684.4	2750.4	2779.8	2757.8	2647.8	2614.8	2614.8	2622.1
40°	9435.9	4708.8	2567.1	2669.8	2658.8	2677.1	2515.7	2526.7	2526.7	2530.4	2512.1
42.5°	9670.6	4499.7	2523.1	2581.7	2600.1	2504.7	2405.7	2394.7	2420.4	2416.7	2402.1
45°	9754.9	4327.4	2460.7	2482.7	2497.4	2339.7	2292.0	2270.0	2299.4	2310.4	2325.0
47.5°	9432.2	4184.3	2391.1	2347.0	2317.7	2215.0	2152.7	2112.3	2149.0	2211.4	2226.0
50°	9017.8	3997.3	2281.0	2196.7	2134.3	2090.3	2046.3	2006.0	2031.7	2075.7	2064.7
52.5°	8405.4	3703.9	2141.7	2053.7	1947.3	1958.3	1918.0	1896.0	1910.6	1910.6	1899.6
55°	7532.5	3043.8	1907.0	1844.6	1756.6	1786.0	1793.3	1764.0	1734.6	1760.3	1738.3
57.5°	5141.5	2149.0	1701.6	1701.6	1613.6	1653.9	1650.3	1580.6	1510.9	1518.2	1503.6
60°	2974.1	1712.6	1569.6	1554.9	1463.2	1496.2	1503.6	1455.9	1349.6	1356.9	1342.2
62.5°	1690.6	1463.2	1371.6	1349.6	1331.2	1360.6	1360.6	1298.2	1206.5	1213.9	1199.2
65°	1437.6	1356.9	1224.9	1221.2	1213.9	1221.2	1191.9	1125.8	1045.2	1012.2	1015.8
67.5°	1305.5	1254.2	1125.8	1092.8	1070.8	1067.2	1012.2	949.8	913.1	883.8	880.1
70°	1144.2	1103.8	1008.5	964.5	942.5	891.1	836.1	795.8	744.5	729.8	744.5
72.5°	905.8	902.1	865.5	817.8	770.1	729.8	682.1	627.1	579.4	568.4	542.8
75°	627.1	634.4	641.8	634.4	594.1	542.8	487.7	443.7	385.1	352.1	344.7
77.5°	410.7	421.7	432.7	418.1	392.4	344.7	308.0	253.0	209.0	183.4	179.7
80°	300.7	315.4	322.7	311.7	282.4	245.7	205.4	161.4	128.4	106.4	106.4
82.5°	231.0	245.7	253.0	234.7	205.4	176.0	146.7	113.7	88.0	69.7	66.0
85°	80.7	77.0	91.7	95.3	113.7	106.4	88.0	66.0	51.3	36.7	33.0
87.5°	22.0	22.0	25.7	25.7	22.0	18.3	18.3	18.3	14.7	11.0	11.0
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)