

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: P648307

Luminaire Tested: **GALN-SA3B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9922.2 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

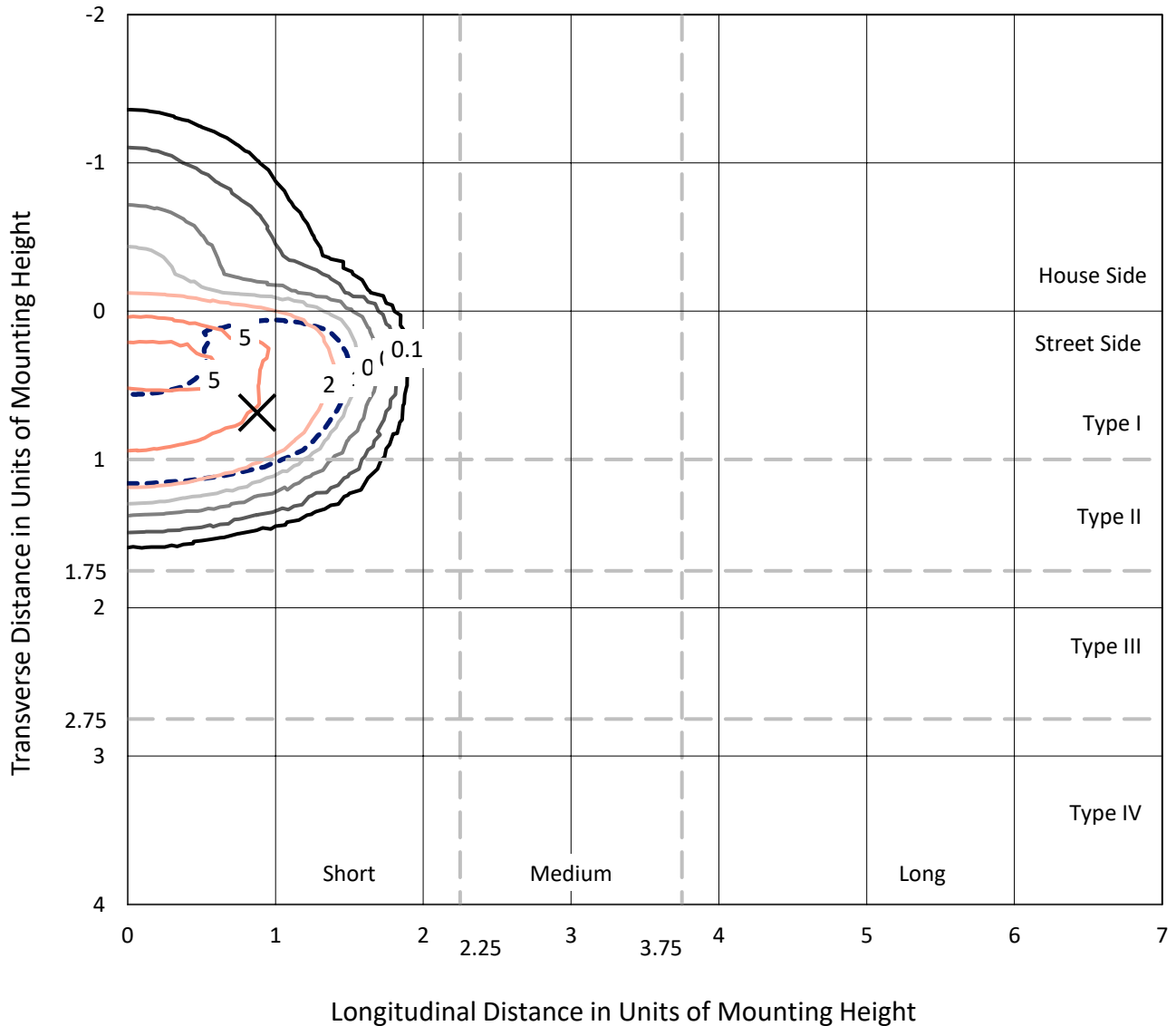
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648307
 CATALOG NUMBER: GALN-SA3B-835-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

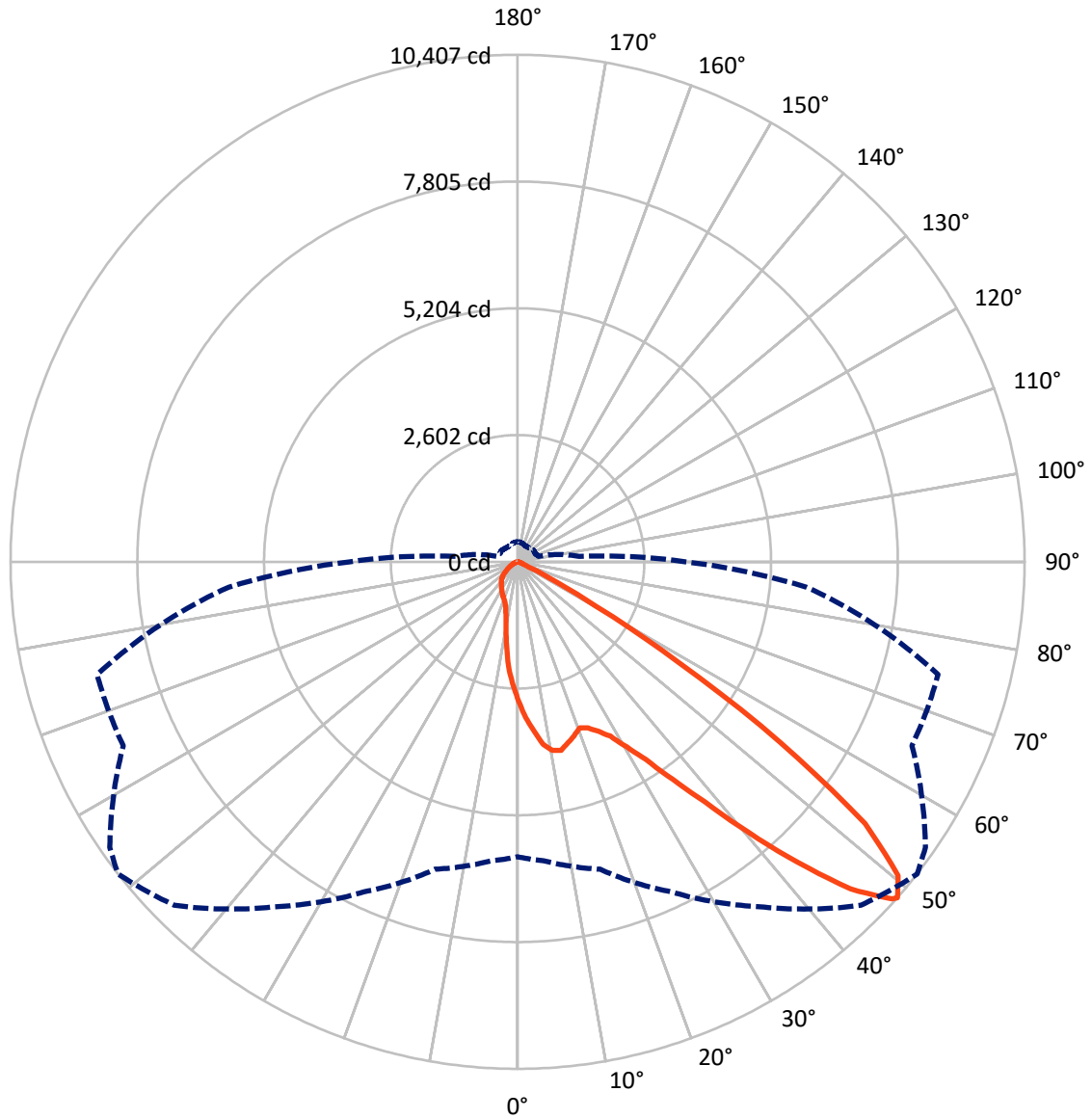
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P648307
CATALOG NUMBER: GALN-SA3B-835-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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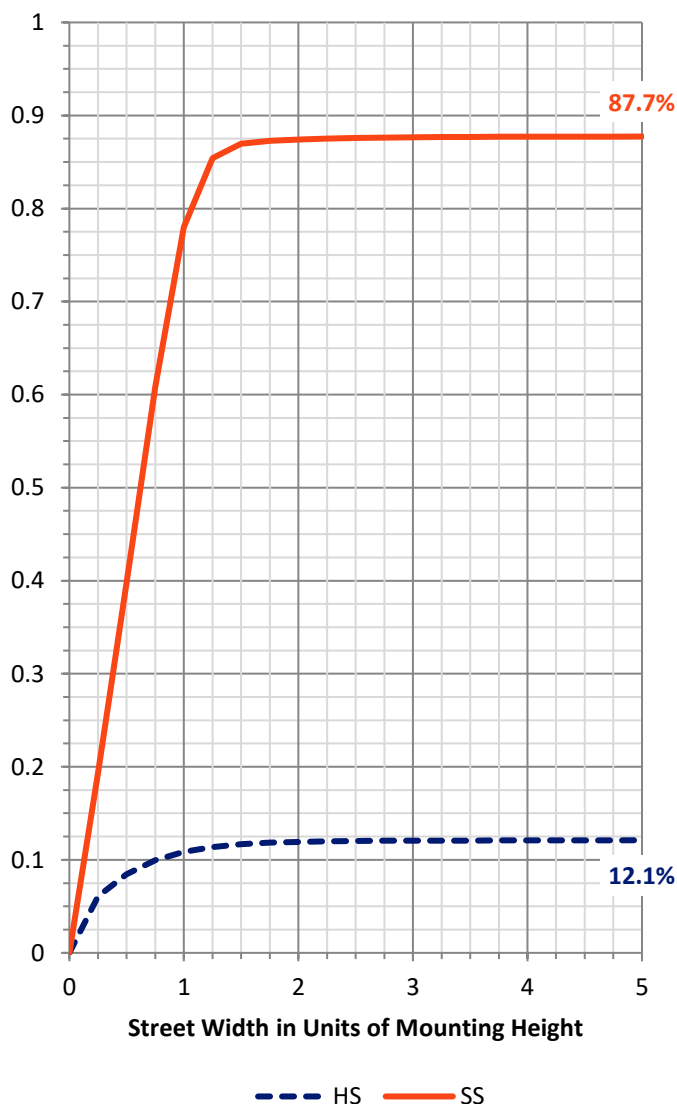
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1208.1	0.0	1208.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8714.1	0.0	8714.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	9922.2	0.0	9922.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	2.6
10°-20°	685.4	6.9
20°-30°	1170.2	11.8
30°-40°	2155.0	21.7
40°-50°	3346.7	33.7
50°-60°	2014.1	20.3
60°-70°	232.9	2.3
70°-80°	45.1	0.5
80°-90°	10.4	0.1
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°	9922.2	100.0
0°-180°	9922.2	100.0

Coefficient of Utilization

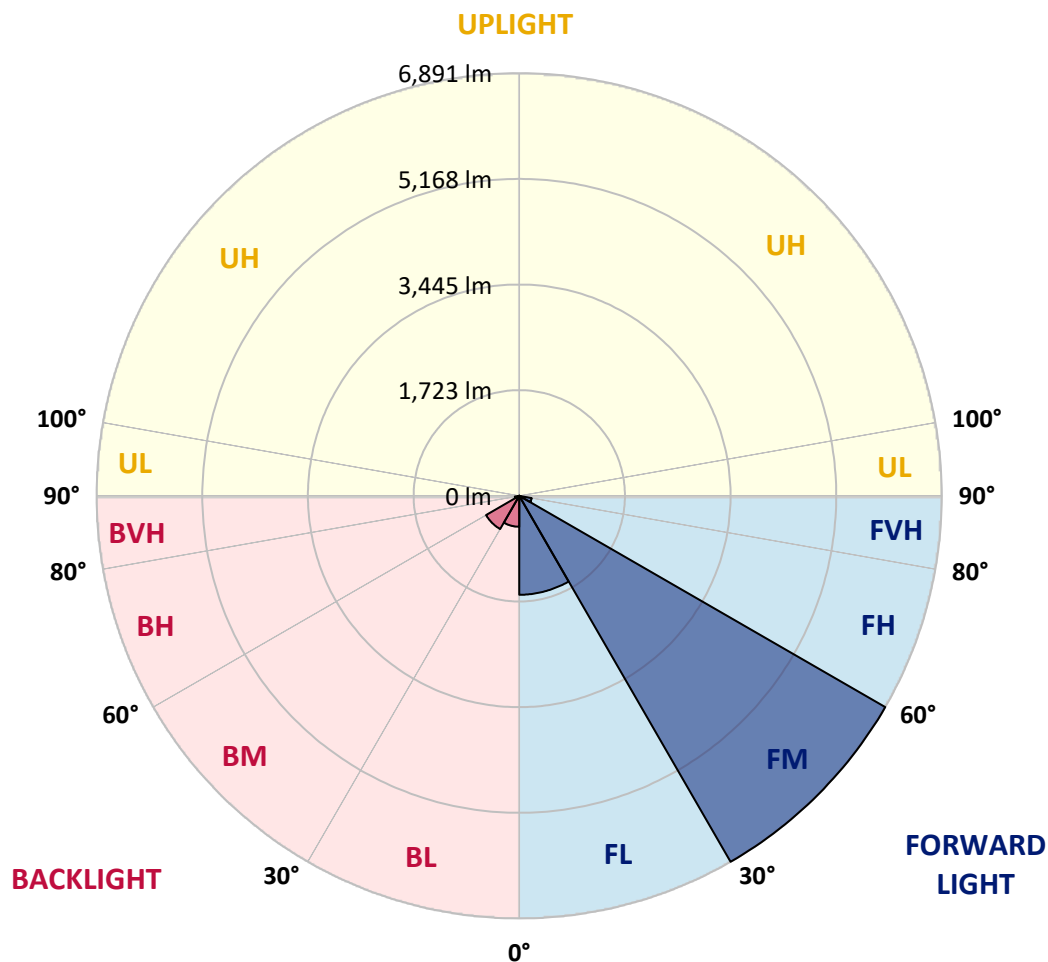


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.2	16.3			
FM (30°-60°)	6890.8	69.4			
FH (60°-80°)	205.1	2.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	504.7	5.1	B2/1000		
BM (30°-60°)	625.1	6.3	B1/1000		
BH (60°-80°)	72.9	0.7	B0/110		G0/110
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





REPORT NUMBER: P648307

CATALOG NUMBER: GALN-SA3B-835-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4
2.5°	3472.8	3393.3	3400.6	3348.5	3318.1	3268.9	3202.4	3189.4	3117.0	3018.7	2918.9
5°	3785.3	3766.5	3791.1	3715.9	3718.8	3637.7	3481.5	3484.4	3318.1	3157.5	3002.8
7.5°	3805.5	3762.2	3786.7	3853.3	3892.3	3877.9	3789.6	3713.0	3555.3	3319.5	3093.9
10°	3407.8	3490.2	3516.2	3626.2	3782.4	3947.3	3937.2	3941.5	3809.8	3501.8	3172.0
12.5°	3169.1	3114.1	3202.4	3268.9	3504.7	3824.3	3970.4	4002.2	4012.4	3678.2	3250.1
15°	3060.6	3060.6	3075.1	3093.9	3264.6	3559.7	3857.6	3950.2	4168.6	3909.7	3373.1
17.5°	3128.6	3125.7	3145.9	3106.9	3170.5	3397.7	3753.5	3859.0	4343.6	4136.7	3469.9
20°	3335.4	3345.6	3332.5	3219.7	3224.1	3394.8	3637.7	3804.0	4462.2	4333.5	3598.7
22.5°	3623.3	3629.0	3555.3	3432.4	3396.2	3480.1	3704.3	3831.5	4557.7	4569.3	3637.7
25°	3956.0	3932.9	3918.4	3744.8	3634.8	3707.2	3854.7	3928.5	4617.0	4771.8	3749.2
27.5°	4417.4	4371.1	4282.9	4128.1	4047.1	3944.4	4050.0	4171.5	4786.2	5055.2	3870.6
30°	5098.7	5058.1	4886.0	4686.4	4473.7	4372.5	4405.8	4472.3	5091.4	5383.6	4031.2
32.5°	6124.2	6038.8	5790.1	5409.6	5120.4	4841.1	4832.5	4903.4	5364.8	5837.7	4222.1
35°	7253.8	7227.8	6861.8	6469.9	5910.1	5479.0	5486.2	5523.9	5888.4	6433.7	4472.3
37.5°	8004.5	8147.7	7914.8	7493.9	7023.8	6407.7	6251.4	6264.5	6607.3	7139.6	4923.6
40°	8584.5	8463.0	8490.5	8392.1	8071.0	7651.6	7305.9	7237.9	7439.0	7920.6	5372.0
42.5°	8331.4	8337.1	8506.4	8739.3	8818.9	8788.5	8435.5	8306.8	8150.6	8559.9	5798.7
45°	7616.9	7765.9	7985.7	8601.9	9142.9	9650.6	9581.1	9367.0	8642.4	9066.2	6044.6
47.5°	6477.1	6471.3	6831.4	7632.8	8834.7	10023.7	10339.0	10188.6	8991.0	9009.7	5993.9
48°	6056.2	6160.3	6532.0	7475.1	8639.5	9968.8	10407.0	10217.5	8931.7	8934.6	5950.6
50°	4476.6	4457.9	4920.7	6077.9	7716.6	9367.0	10120.6	10268.1	8930.2	8554.1	5646.8
52.5°	2364.9	2445.9	2782.9	3821.4	5455.9	7666.0	8927.3	9157.3	8614.9	7932.2	5210.0
55°	1005.3	908.4	1167.3	1725.6	3069.3	5121.8	6549.4	7061.4	7284.2	7019.5	4557.7
57.5°	358.7	392.0	451.3	649.4	1290.2	2803.1	3905.4	4303.1	5046.6	5150.7	3105.5
60°	230.0	234.4	253.1	297.9	484.5	1080.5	1852.9	2169.6	2506.6	2587.7	1449.3
62.5°	177.9	179.4	188.0	195.3	230.0	419.5	695.7	824.5	856.3	736.3	380.4
65°	149.0	150.4	153.3	153.3	163.4	196.7	243.0	267.6	260.3	257.5	215.5
67.5°	114.2	117.1	122.9	122.9	128.7	120.0	134.5	143.2	162.0	196.7	183.7
70°	89.7	91.1	95.4	98.3	98.3	86.8	96.9	105.6	118.6	146.1	144.6
72.5°	69.5	72.3	75.2	75.2	70.9	59.3	69.5	76.7	85.3	101.2	98.3
75°	53.5	53.5	55.0	44.9	34.7	30.4	42.0	50.7	63.7	66.6	55.0
77.5°	14.5	15.9	14.5	13.0	14.5	21.7	27.5	31.8	40.5	40.5	36.2
80°	0.0	1.4	4.3	8.7	14.5	20.3	24.6	27.5	31.8	34.7	33.3
82.5°	0.0	1.4	4.3	8.7	13.0	15.9	21.7	23.2	26.1	30.4	30.4
85°	0.0	1.4	2.9	5.8	8.7	10.1	10.1	8.7	8.7	7.2	5.8
87.5°	0.0	0.0	1.4	2.9	2.9	4.3	4.3	4.3	4.3	4.3	4.3
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°	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4	2865.4
2.5°	2879.8	2835.0	2767.0	2659.9	2557.3	2490.7	2427.1	2356.2	2317.1	2314.2	2292.5
5°	2914.6	2813.3	2651.3	2467.6	2270.9	2101.7	1931.0	1819.6	1719.8	1664.8	1654.7
7.5°	2933.4	2801.7	2539.9	2231.9	1896.3	1620.0	1429.1	1288.7	1233.8	1193.3	1191.9
10°	2972.4	2781.5	2373.6	1919.4	1504.3	1225.1	1093.5	1029.9	999.5	987.9	970.5
12.5°	3001.3	2743.9	2202.9	1598.3	1189.0	1015.4	957.5	943.0	944.5	950.3	943.0
15°	3041.8	2710.6	1972.9	1311.9	998.0	914.2	914.2	917.0	937.3	940.1	938.7
17.5°	3038.9	2645.5	1735.7	1080.5	882.3	870.8	875.1	902.6	915.6	919.9	909.8
20°	3073.7	2584.8	1491.2	922.8	817.2	834.6	863.5	870.8	886.7	889.6	878.0
22.5°	3063.5	2432.9	1264.2	798.4	768.0	801.3	830.2	838.9	834.6	825.9	824.5
25°	3044.7	2302.7	1055.9	716.0	731.9	768.0	795.5	779.6	770.9	772.4	773.8
27.5°	3011.4	2137.8	883.8	658.1	682.7	736.3	734.8	729.0	737.7	730.5	737.7
30°	3005.6	1972.9	742.0	606.0	646.5	685.6	688.5	698.6	708.8	695.7	708.8
32.5°	3014.3	1792.1	640.7	574.3	624.8	626.3	658.1	668.2	661.0	632.1	635.0
35°	3080.9	1653.2	567.0	556.9	590.1	591.6	621.9	608.9	577.1	559.8	569.9
37.5°	3221.2	1537.6	532.3	541.0	543.9	562.7	564.1	538.1	541.0	539.5	545.3
40°	3400.6	1449.3	507.7	526.5	523.6	536.6	484.5	499.0	512.0	516.4	519.3
42.5°	3523.5	1385.7	491.8	503.4	497.6	474.4	445.5	459.9	470.1	486.0	488.9
45°	3578.5	1335.0	473.0	462.8	462.8	420.9	409.4	412.2	435.3	452.7	449.8
47.5°	3488.7	1285.8	439.7	409.4	419.5	384.8	371.8	371.8	396.4	418.0	413.7
48°	3454.0	1265.6	441.1	397.8	405.0	379.0	366.0	363.1	390.6	410.8	410.8
50°	3281.9	1190.4	403.6	366.0	351.5	348.6	339.9	342.8	360.2	379.0	379.0
52.5°	2946.4	1028.4	341.4	313.9	287.8	305.2	309.5	303.7	312.4	329.8	328.3
55°	2458.9	789.7	273.3	260.3	240.1	258.9	267.6	260.3	251.7	264.7	264.7
57.5°	1575.2	425.2	218.4	221.3	201.1	219.9	227.1	209.8	193.8	204.0	202.5
60°	710.2	254.6	179.4	175.0	162.0	183.7	195.3	175.0	153.3	160.5	167.8
62.5°	266.1	180.8	135.9	133.0	130.2	150.4	156.2	140.3	118.6	122.9	124.4
65°	195.3	159.1	108.4	98.3	104.1	118.6	115.7	99.8	85.3	85.3	88.2
67.5°	166.3	138.8	88.2	76.7	76.7	78.1	72.3	63.7	59.3	62.2	65.1
70°	130.2	109.9	69.5	59.3	53.5	47.8	42.0	40.5	36.2	40.5	39.1
72.5°	83.9	73.8	53.5	44.9	40.5	33.3	27.5	26.1	21.7	20.3	20.3
75°	44.9	44.9	42.0	36.2	31.8	26.1	21.7	17.4	11.6	8.7	8.7
77.5°	31.8	34.7	37.6	34.7	28.9	21.7	17.4	11.6	5.8	2.9	2.9
80°	30.4	34.7	37.6	33.3	28.9	21.7	15.9	8.7	4.3	1.4	1.4
82.5°	27.5	31.8	34.7	30.4	26.1	18.8	14.5	8.7	4.3	1.4	1.4
85°	5.8	7.2	8.7	8.7	10.1	13.0	10.1	7.2	2.9	1.4	1.4
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9	1.4	1.4	1.4
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)