

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: P648376

Luminaire Tested: **GALN-SA4B-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17469.5 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

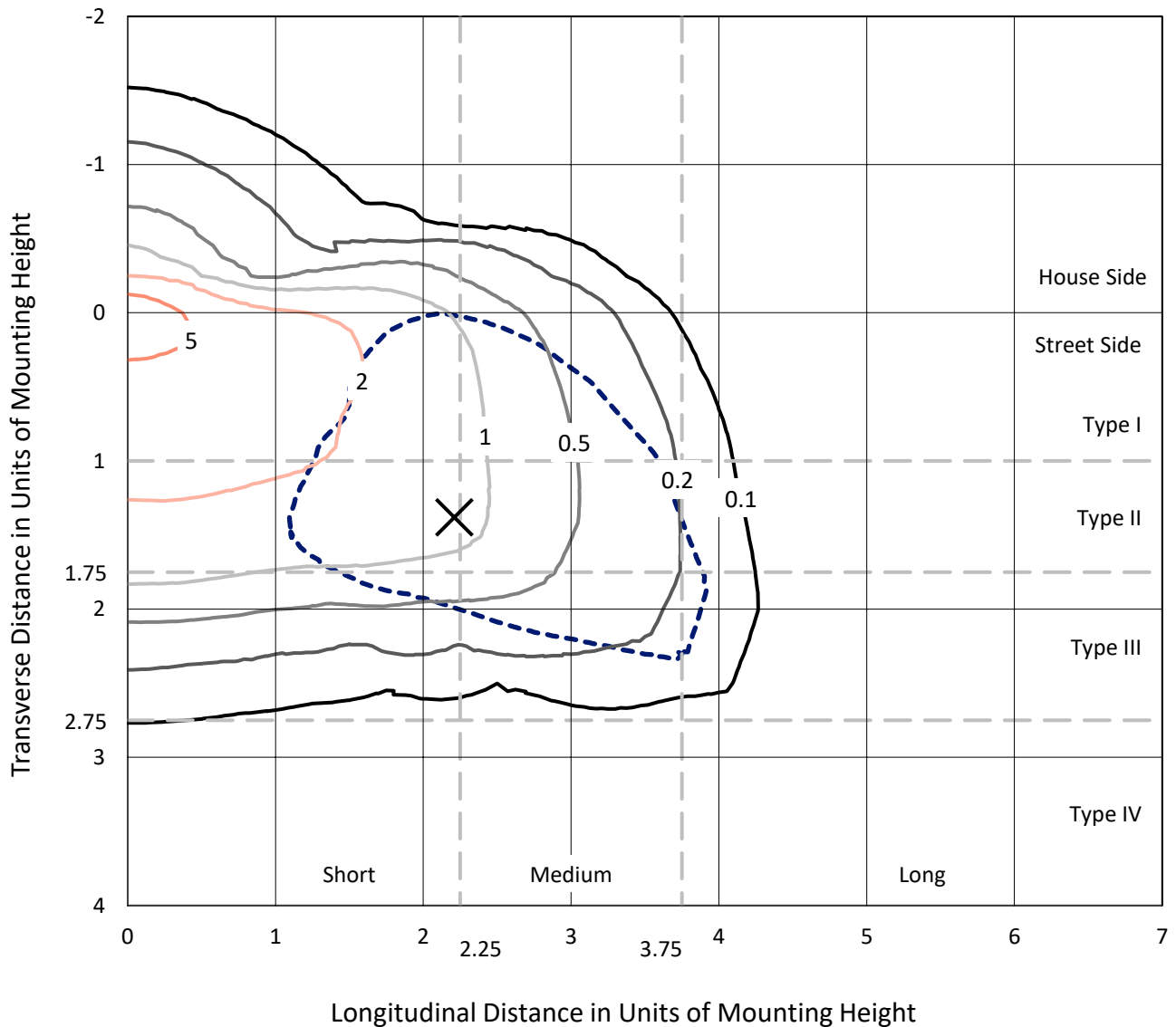
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648376
 CATALOG NUMBER: GALN-SA4B-835-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

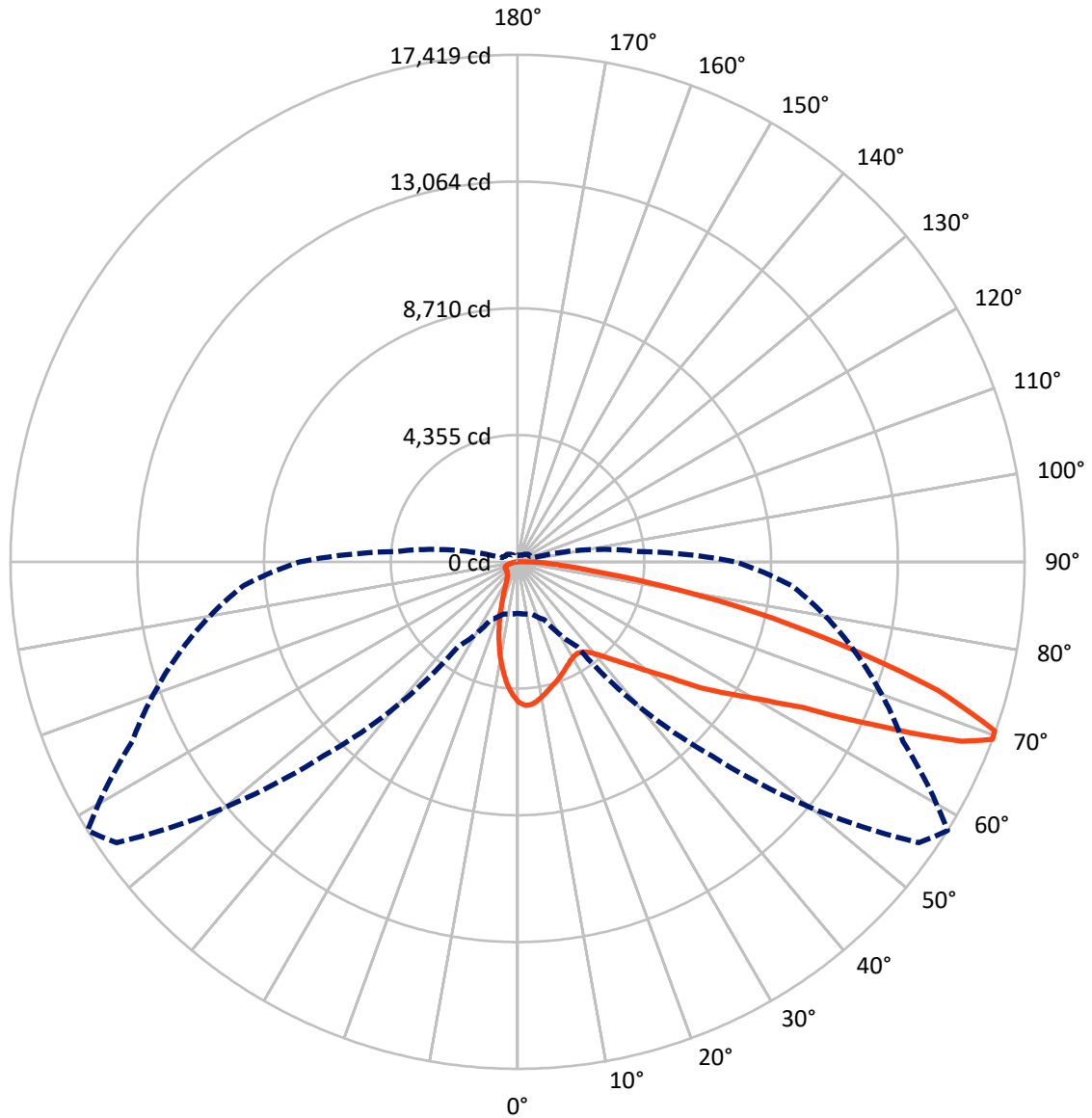
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

REPORT NUMBER: P648376
CATALOG NUMBER: GALN-SA4B-835-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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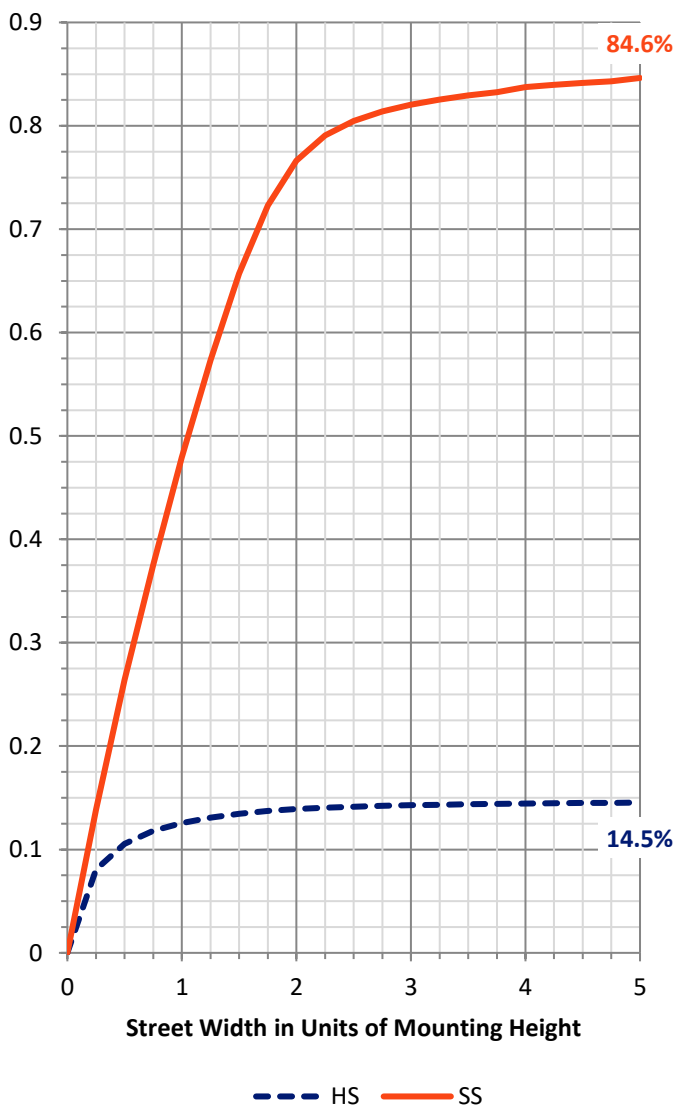
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2560.2	0.0	2560.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14909.4	0.0	14909.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	17469.5	0.0	17469.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	2.3
10°-20°	900.2	5.2
20°-30°	1163.1	6.7
30°-40°	1510.7	8.6
40°-50°	2196.3	12.6
50°-60°	3504.6	20.1
60°-70°	4681.7	26.8
70°-80°	2698.8	15.4
80°-90°	404.2	2.3
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°	17469.5	100.0
0°-180°	17469.5	100.0

Coefficient of Utilization



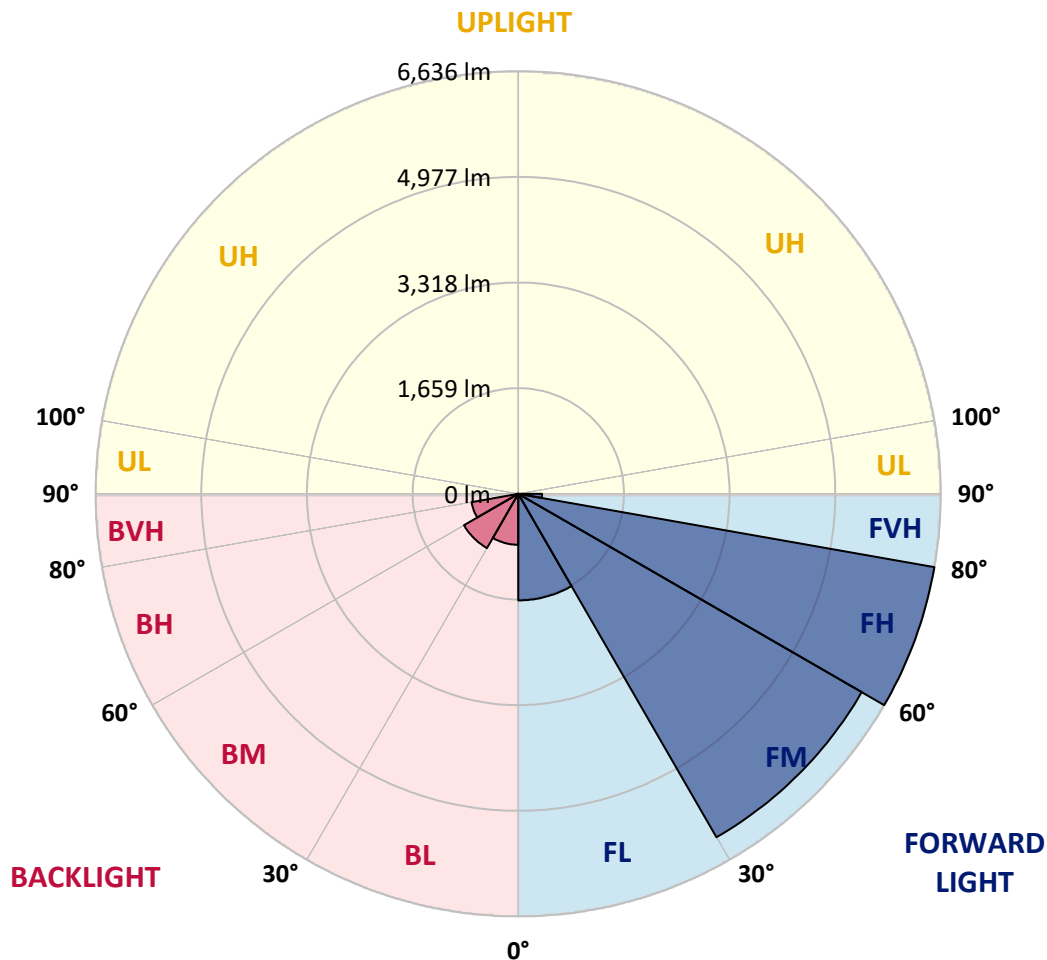
REPORT NUMBER: P648376
 CATALOG NUMBER: GALN-SA4B-835-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.1	9.6			
FM (30°-60°)	6227.0	35.6			
FH (60°-80°)	6636.0	38.0			G3/7500
FVH (80°-90°)	373.3	2.1			G3/500
BL (0°-30°)	800.2	4.6	B2/1000		
BM (30°-60°)	984.6	5.6	B1/1000		
BH (60°-80°)	744.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P648376

CATALOG NUMBER: GALN-SA4B-835-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6
2.5°	5006.8	5020.4	5016.5	5011.7	5003.9	4982.5	4947.4	4941.5	4919.1	4871.4	4811.9
5°	4929.8	4941.5	4942.5	4949.3	4959.1	4955.2	4929.8	4926.9	4893.8	4829.5	4730.1
7.5°	4665.8	4681.4	4715.5	4753.5	4787.6	4819.8	4827.6	4832.4	4811.9	4737.9	4605.4
10°	4368.7	4384.3	4399.8	4456.4	4540.1	4620.0	4686.3	4695.0	4700.0	4631.8	4470.0
12.5°	4039.3	4071.5	4104.6	4188.4	4300.5	4426.1	4543.0	4561.6	4594.7	4543.0	4353.1
15°	3759.7	3792.9	3840.6	3915.6	4051.1	4232.3	4396.9	4427.2	4492.4	4466.1	4243.9
17.5°	3565.9	3577.5	3610.6	3696.4	3842.6	4033.5	4253.7	4314.1	4418.4	4411.5	4150.4
20°	3412.9	3427.5	3447.9	3500.6	3652.5	3854.2	4120.2	4198.1	4339.5	4362.8	4057.9
22.5°	3348.6	3359.3	3356.4	3384.7	3488.0	3690.6	3984.8	4077.4	4269.3	4329.7	3972.2
25°	3352.5	3362.2	3347.6	3340.8	3402.2	3546.4	3843.5	3961.4	4212.8	4307.3	3894.2
27.5°	3417.8	3424.6	3397.3	3370.0	3374.9	3456.7	3726.6	3857.1	4165.0	4317.0	3828.9
30°	3505.5	3518.1	3500.6	3467.4	3431.4	3435.3	3651.6	3780.2	4142.6	4351.1	3797.7
32.5°	3618.5	3630.1	3622.4	3596.1	3549.3	3497.7	3633.1	3752.0	4144.6	4420.3	3790.9
35°	3737.3	3760.7	3773.4	3771.4	3733.4	3643.8	3706.2	3804.6	4191.3	4536.2	3830.8
37.5°	3871.8	3891.3	3945.9	3980.9	3945.9	3841.6	3870.8	3939.0	4294.6	4703.8	3918.5
40°	4002.3	4031.6	4111.5	4220.6	4206.9	4115.4	4122.2	4167.0	4476.8	4953.3	4090.0
42.5°	4138.7	4173.8	4313.2	4474.8	4507.0	4435.9	4454.4	4494.3	4736.0	5299.1	4384.3
45°	4314.1	4356.0	4527.5	4729.2	4855.8	4811.9	4864.5	4884.0	5082.8	5749.3	4772.0
47.5°	4540.1	4588.8	4800.3	5051.6	5230.9	5270.8	5362.5	5350.7	5512.5	6282.2	5274.8
50°	4921.1	4948.3	5148.1	5404.3	5650.8	5831.1	5930.4	5948.9	6045.4	6800.4	5836.9
52.5°	5374.1	5398.5	5542.7	5766.7	6075.6	6457.6	6703.0	6642.7	6666.0	7431.8	6494.5
55°	5883.7	5924.6	6016.2	6165.3	6565.7	7127.8	7620.8	7635.4	7376.3	8035.9	7124.9
57.5°	6278.3	6347.4	6504.3	6716.7	7224.3	7873.1	8535.6	8545.4	8214.1	8680.8	7820.5
60°	6079.5	6161.3	6519.9	7037.2	8088.5	9173.8	9628.8	9573.3	9029.6	9415.4	8669.1
62.5°	5222.1	5236.8	5758.0	6566.6	8354.5	10913.8	11255.9	11021.0	10117.8	10346.9	9531.4
65°	3379.7	3475.3	3888.4	5021.5	7480.5	11879.4	14106.6	13563.9	11643.6	11403.9	10253.3
67.5°	2133.7	2109.3	2280.8	2867.3	5145.2	11028.9	16539.4	16453.6	13638.9	12071.3	10080.9
69°	1769.3	1796.6	1855.0	2198.0	3540.5	9416.4	16826.7	17419.2	14606.4	12018.7	9454.4
70°	1604.6	1617.3	1678.7	1948.6	2731.9	7886.8	16355.2	17392.9	14986.4	11798.5	9000.4
72.5°	1273.4	1272.4	1377.6	1621.2	2042.1	4502.2	13429.5	15100.3	14561.6	10773.6	7436.7
75°	967.5	983.1	1099.0	1371.8	1881.3	2460.0	9371.6	11629.0	11630.0	8509.3	4640.5
77.5°	697.6	707.4	842.7	1151.6	1772.2	1994.4	6242.2	8340.8	7841.0	3899.0	1458.5
80°	457.0	462.8	566.0	912.0	1597.8	1881.3	3701.3	5105.2	3698.3	1034.7	482.2
82.5°	250.4	279.6	345.9	590.4	1282.2	1738.1	2249.6	2583.8	1387.4	460.8	251.3
85°	125.7	133.5	194.9	344.9	837.9	1438.1	1566.6	1481.9	716.1	228.9	130.5
87.5°	37.0	46.7	80.9	133.5	340.1	749.3	871.9	782.4	275.7	82.8	27.2
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: P648376
 CATALOG NUMBER: GALN-SA4B-835-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6
2.5°	4787.6	4770.0	4692.1	4622.0	4557.7	4489.5	4432.0	4381.4	4386.2	4387.1	4335.5
5°	4678.5	4638.6	4490.4	4352.1	4235.2	4087.1	3960.4	3878.6	3837.7	3783.1	3802.6
7.5°	4530.4	4453.4	4247.9	4017.9	3802.6	3610.6	3402.2	3258.9	3167.4	3078.8	3090.4
10°	4377.4	4253.7	3954.6	3650.7	3372.0	3065.1	2799.1	2571.1	2401.6	2338.3	2296.4
12.5°	4220.6	4057.9	3677.9	3273.6	2888.7	2521.4	2144.4	1899.9	1712.8	1613.4	1626.1
15°	4077.4	3879.6	3389.5	2896.6	2396.8	1959.3	1583.2	1350.4	1219.8	1192.5	1208.1
17.5°	3944.8	3685.7	3119.6	2530.2	1946.6	1469.2	1189.6	1058.1	1005.5	990.8	989.9
20°	3808.4	3521.1	2816.6	2138.5	1517.0	1139.0	976.2	914.9	905.1	910.9	912.0
22.5°	3670.1	3317.4	2504.9	1749.8	1208.1	931.4	853.5	836.9	844.7	858.3	860.3
25°	3542.4	3138.2	2204.8	1408.8	964.5	818.4	780.4	780.4	798.0	818.4	819.3
27.5°	3437.3	2964.8	1905.7	1118.4	807.7	736.6	723.9	730.7	755.0	770.6	771.6
30°	3350.5	2803.0	1623.2	896.3	710.3	671.3	668.4	680.0	697.6	712.2	713.2
32.5°	3285.2	2660.8	1359.1	753.1	643.0	621.6	620.6	629.4	639.2	643.0	646.9
35°	3259.9	2542.9	1117.5	662.5	598.2	584.6	584.6	583.6	587.5	589.4	591.4
37.5°	3280.4	2452.3	930.4	604.1	565.1	555.3	549.5	543.6	541.7	541.7	542.7
40°	3367.1	2404.5	791.1	566.0	541.7	527.1	516.4	509.6	502.8	504.6	506.6
42.5°	3551.2	2413.3	696.6	540.7	521.2	500.8	485.2	477.4	472.5	478.3	477.4
45°	3844.5	2501.0	636.2	523.2	500.8	474.5	459.9	452.1	452.1	460.8	463.8
47.5°	4254.7	2668.5	604.1	509.6	485.2	454.0	439.4	433.5	435.5	450.1	451.1
50°	4755.5	2959.9	598.2	502.8	477.4	439.4	422.8	417.0	421.9	437.5	439.4
52.5°	5307.9	3335.0	626.5	503.7	470.6	430.6	409.2	400.4	405.3	418.0	421.9
55°	5962.6	3804.6	699.5	507.6	460.8	425.8	399.5	380.0	385.8	394.6	395.6
57.5°	6630.9	4396.9	828.1	508.6	453.0	417.0	382.9	357.6	357.6	363.4	366.4
60°	7447.3	5041.9	997.7	509.6	454.0	404.3	360.5	332.2	328.3	331.3	332.2
62.5°	8258.0	5581.6	1025.9	506.6	463.8	391.7	336.1	306.9	300.0	299.1	297.1
65°	8615.6	5481.3	840.8	493.0	474.5	383.9	316.6	282.5	270.8	266.9	266.9
67.5°	8033.0	4636.6	632.3	474.5	467.7	376.1	298.2	262.1	248.4	240.6	240.6
69°	7485.4	4124.1	568.0	461.8	450.1	363.4	286.4	251.3	234.8	226.1	223.1
70°	7062.6	3771.4	540.7	451.1	433.5	348.8	277.7	243.6	225.0	215.3	213.4
72.5°	5636.2	2958.9	473.5	410.1	369.3	293.2	246.5	219.2	201.7	191.0	188.0
75°	3248.3	1603.7	392.6	356.6	297.1	228.0	208.5	191.0	177.3	167.6	164.7
77.5°	999.6	619.7	284.5	281.6	218.2	176.3	166.6	159.8	150.0	139.3	137.3
80°	420.9	315.6	192.9	190.0	145.2	122.8	119.8	118.9	114.9	106.2	103.3
82.5°	230.9	178.3	134.4	116.9	87.7	71.1	74.1	75.0	72.1	63.3	57.5
85°	113.0	97.4	65.3	52.6	39.9	25.4	24.4	29.2	27.2	19.5	21.5
87.5°	22.4	27.2	17.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	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)