

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: P648318

Luminaire Tested: **GALN-SA3B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7778.3 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

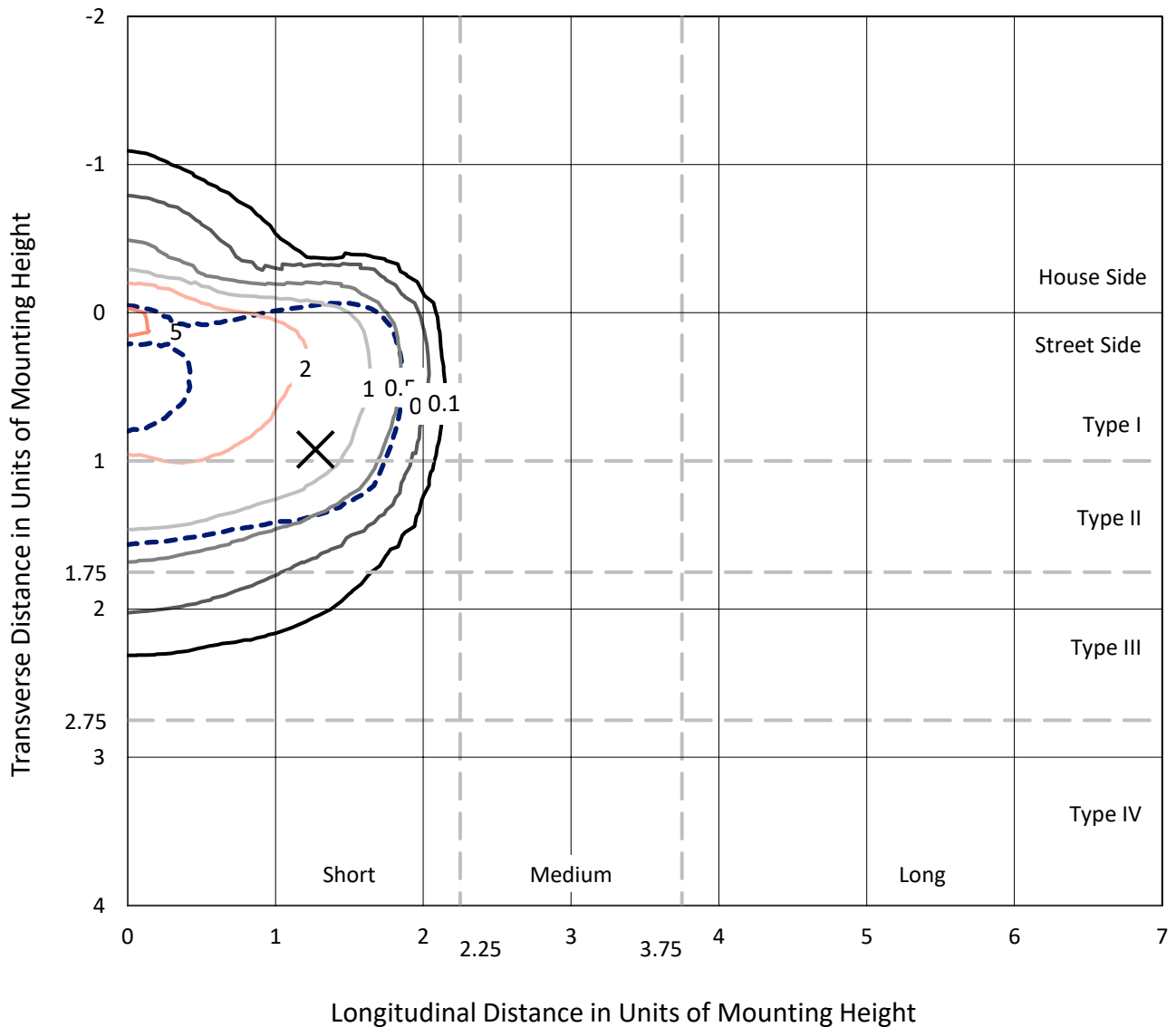
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

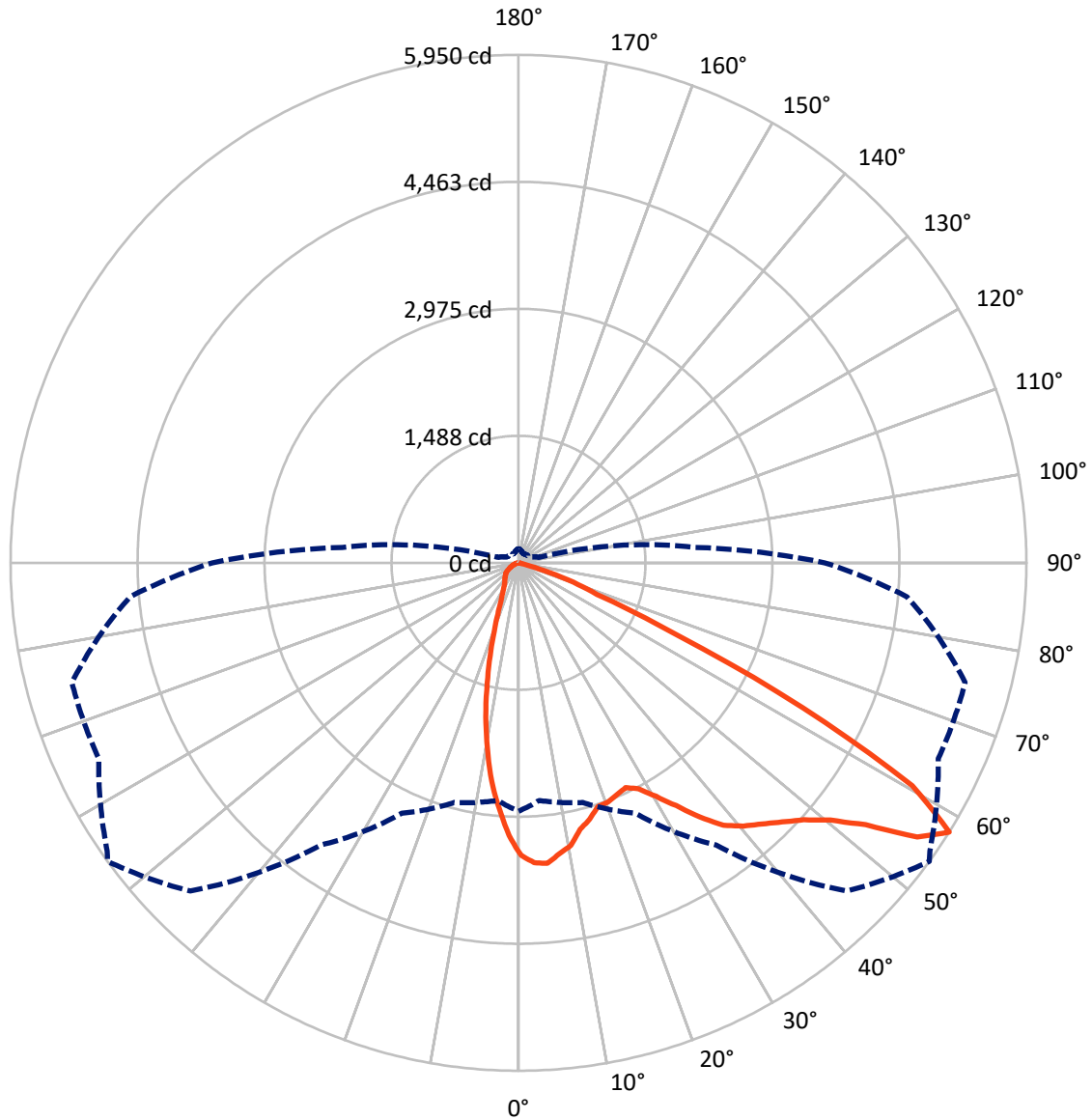
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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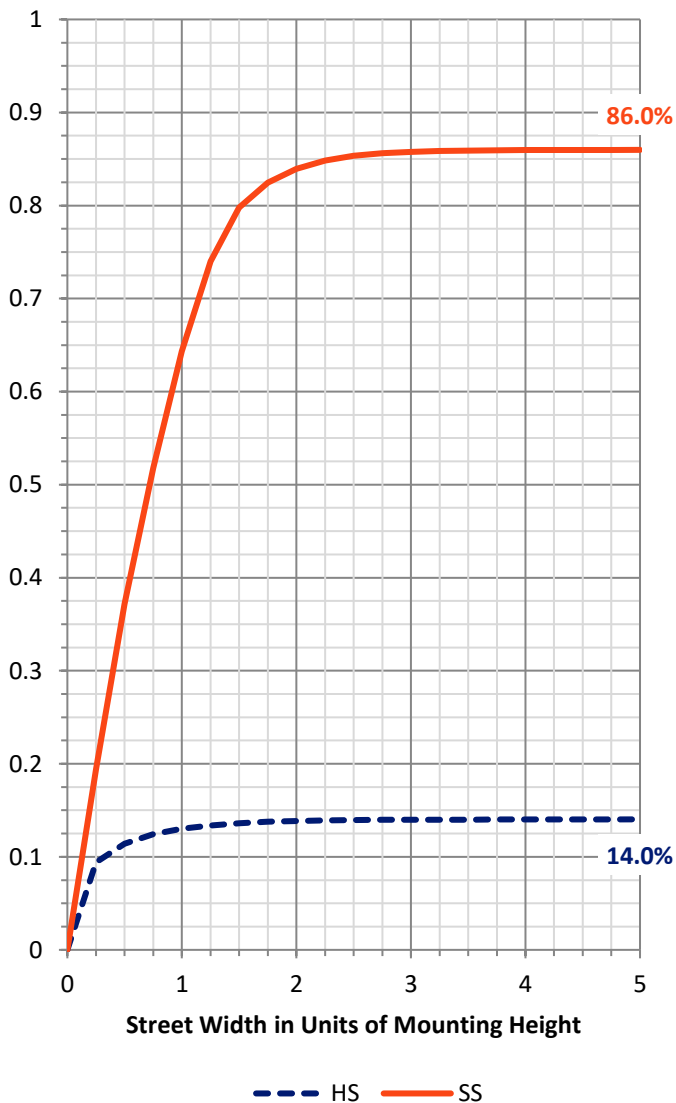
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.2	0.0	1099.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6679.1	0.0	6679.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	7778.3	0.0	7778.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	3.7
10°-20°	612.2	7.9
20°-30°	811.2	10.4
30°-40°	1179.0	15.2
40°-50°	1748.3	22.5
50°-60°	2186.1	28.1
60°-70°	862.3	11.1
70°-80°	85.9	1.1
80°-90°	6.7	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°	7778.3	100.0
0°-180°	7778.3	100.0

Coefficient of Utilization

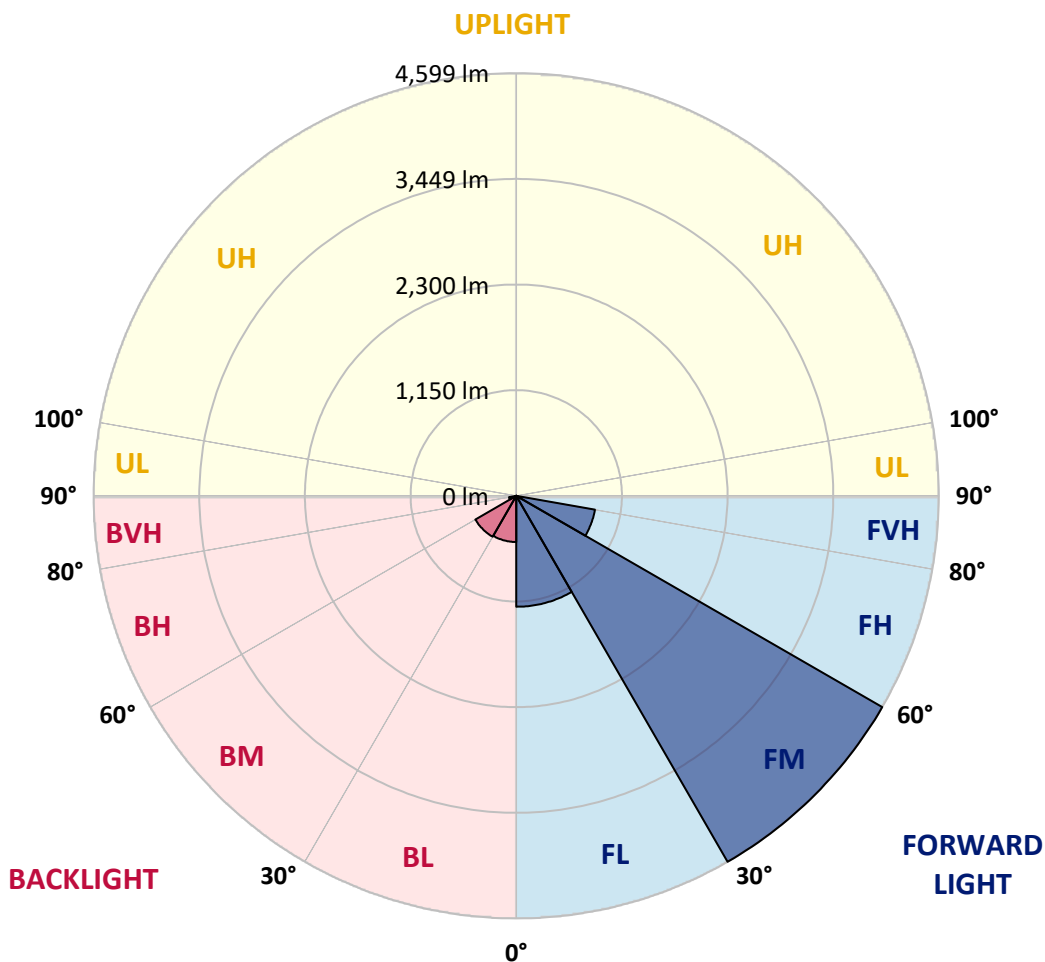


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.4	15.5			
FM (30°-60°)	4599.3	59.1			
FH (60°-80°)	869.4	11.2			G1/1800
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	502.7	6.5	B2/1000		
BM (30°-60°)	514.0	6.6	B1/1000		
BH (60°-80°)	78.8	1.0	B0/110		G0/110
BVH (80°-90°)	3.6	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5
2.5°	3626.1	3588.4	3591.3	3578.3	3561.0	3574.0	3517.5	3530.6	3529.1	3452.5	3401.9
5°	3534.9	3575.4	3533.5	3568.2	3534.9	3571.1	3536.3	3510.3	3468.4	3412.0	3318.0
7.5°	3380.1	3341.1	3352.7	3396.1	3403.3	3484.3	3440.9	3474.2	3456.9	3345.4	3216.7
10°	3069.2	3060.5	3118.4	3176.2	3247.1	3333.9	3367.1	3348.3	3335.3	3293.4	3121.3
12.5°	2830.5	2855.1	2853.7	2949.2	3069.2	3118.4	3205.1	3202.2	3274.6	3196.5	3031.6
15°	2603.5	2616.5	2677.2	2736.5	2869.6	3009.9	3117.0	3131.4	3218.2	3163.2	2962.2
17.5°	2464.6	2445.8	2493.5	2564.4	2700.4	2884.1	3002.6	3037.4	3156.0	3144.4	2882.6
20°	2327.2	2327.2	2366.2	2450.2	2574.5	2781.4	2992.5	2982.4	3156.0	3122.7	2797.3
22.5°	2281.0	2304.1	2314.2	2377.8	2525.3	2703.3	2949.2	2968.0	3180.5	3112.6	2759.7
25°	2344.5	2314.2	2317.1	2367.7	2506.5	2665.6	2917.3	2959.3	3225.4	3163.2	2729.3
27.5°	2354.7	2385.1	2393.7	2428.5	2521.0	2677.2	2996.9	3082.2	3336.8	3281.8	2738.0
30°	2443.0	2473.3	2471.9	2531.1	2594.8	2771.3	3174.8	3192.1	3566.7	3430.8	2791.5
32.5°	2549.9	2581.8	2591.9	2661.3	2711.9	2943.4	3391.7	3436.6	3788.1	3665.1	2931.8
35°	2683.0	2671.4	2717.7	2787.2	2895.6	3195.0	3656.5	3731.6	4026.7	3968.9	3076.4
37.5°	2849.3	2834.9	2879.7	2992.5	3140.1	3493.0	3900.8	3950.1	4200.2	4250.9	3344.0
40°	2966.5	2972.3	3108.3	3260.1	3416.3	3776.5	4055.6	4103.4	4321.8	4514.2	3546.5
42.5°	3161.8	3197.9	3361.3	3546.5	3709.9	3989.1	4181.5	4227.7	4378.1	4725.3	3819.9
45°	3445.3	3429.4	3610.2	3817.0	3997.8	4210.4	4330.5	4314.6	4411.4	4935.0	3992.0
47.5°	3809.8	3812.7	3932.7	4109.1	4297.2	4402.7	4496.8	4440.4	4480.9	5156.3	4221.9
50°	4058.5	4080.2	4177.1	4357.9	4451.9	4613.9	4733.9	4699.3	4686.3	5289.4	4366.6
52.5°	4122.2	4187.2	4239.3	4465.0	4684.8	4940.8	5094.1	5167.9	4936.5	5334.2	4550.2
55°	3642.0	3699.8	3883.5	4193.0	4773.0	5458.6	5669.8	5671.2	5263.3	5533.9	4679.1
57.5°	2911.6	2794.4	2907.2	3235.5	4035.3	5436.9	5950.4	5882.4	5426.8	5416.6	4567.6
60°	2013.3	1984.4	1991.6	2121.9	2793.0	4324.7	5302.4	5390.6	4997.2	4694.9	3615.9
62.5°	1595.4	1570.8	1538.9	1524.5	1734.2	2694.6	3740.3	3864.7	3494.5	3044.6	2143.5
65°	1249.7	1235.2	1239.6	1297.4	1295.9	1528.8	2045.2	1994.5	1596.8	1180.2	674.0
67.5°	843.2	864.9	882.3	1057.3	1146.9	1064.6	987.9	958.9	519.3	218.4	149.0
70°	474.4	477.3	496.1	661.0	870.7	825.9	681.2	681.2	258.9	79.6	85.3
72.5°	258.9	250.2	232.9	284.9	387.7	393.4	303.7	264.7	76.7	52.1	47.8
75°	125.8	124.4	107.0	88.2	83.9	69.5	53.5	49.2	34.7	33.3	28.9
77.5°	26.0	24.6	13.0	13.0	14.5	15.9	20.3	20.3	24.6	24.6	20.3
80°	0.0	0.0	1.4	5.8	10.1	14.5	17.4	17.4	20.3	20.3	15.9
82.5°	0.0	0.0	1.4	4.3	8.7	13.0	15.9	17.4	20.3	21.7	17.4
85°	0.0	0.0	0.0	2.9	7.2	10.1	8.7	8.7	7.2	5.8	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5	3426.5
2.5°	3375.8	3372.9	3306.4	3268.8	3200.8	3141.6	3093.8	3059.1	3059.1	3037.4	3017.1
5°	3280.4	3255.8	3114.1	3022.9	2894.2	2798.8	2733.6	2683.0	2603.5	2625.2	2539.8
7.5°	3161.8	3099.6	2911.6	2772.7	2594.8	2458.9	2320.0	2197.0	2078.5	2024.9	2053.9
10°	3034.5	2926.0	2672.9	2453.1	2231.8	1982.9	1820.9	1624.3	1502.8	1495.5	1463.7
12.5°	2900.0	2777.1	2469.0	2165.2	1874.5	1575.1	1327.7	1144.0	1061.7	970.5	987.9
15°	2798.8	2616.5	2241.9	1875.9	1489.7	1187.5	938.7	796.9	718.9	697.2	689.9
17.5°	2688.8	2493.5	2010.4	1567.9	1168.7	854.8	675.5	607.5	577.1	577.1	572.8
20°	2574.5	2354.7	1780.5	1281.5	876.5	637.8	541.0	519.3	517.8	516.4	516.4
22.5°	2499.3	2195.6	1572.2	1018.2	661.0	510.6	470.0	461.4	467.2	484.5	484.5
25°	2419.8	2042.3	1342.2	785.3	512.0	438.2	415.1	420.9	435.3	451.2	445.4
27.5°	2338.8	1942.5	1125.2	616.1	419.5	383.3	374.6	387.7	403.6	418.0	413.7
30°	2320.0	1835.4	919.9	467.2	360.2	334.1	339.9	351.5	367.4	373.2	379.0
32.5°	2348.9	1751.6	753.6	383.3	313.8	306.6	306.6	312.4	322.5	335.6	331.2
35°	2431.4	1703.8	595.9	332.7	287.8	280.6	279.1	284.9	290.7	295.0	290.7
37.5°	2557.2	1666.2	487.4	295.0	270.4	258.9	256.0	254.6	260.3	261.8	264.7
40°	2717.7	1686.5	413.7	271.9	253.1	240.1	231.5	231.5	231.5	235.8	237.2
42.5°	2891.3	1714.0	357.3	258.9	237.2	221.3	212.6	209.7	212.6	218.4	217.0
45°	3073.5	1767.5	321.1	238.7	222.8	202.5	190.9	188.0	195.3	206.9	205.4
47.5°	3244.2	1844.1	293.6	225.7	208.3	189.5	175.0	172.1	185.1	201.1	202.5
50°	3414.9	1977.2	283.5	215.5	198.2	176.5	163.4	160.5	175.0	195.3	199.6
52.5°	3611.6	2120.4	276.2	202.5	186.6	166.3	151.9	149.0	164.9	190.9	192.4
55°	3740.3	2241.9	270.4	179.4	164.9	150.4	138.8	137.4	154.8	177.9	183.7
57.5°	3589.9	2072.7	250.2	156.2	140.3	133.0	122.9	122.9	137.4	159.1	163.4
60°	2722.1	1363.9	177.9	125.8	118.6	114.2	109.9	109.9	121.5	137.4	138.8
62.5°	1593.9	734.8	114.2	101.2	101.2	96.9	89.7	89.7	101.2	109.9	111.3
65°	472.9	235.8	92.6	86.8	85.3	78.1	70.9	69.5	78.1	82.4	81.0
67.5°	135.9	108.4	76.7	72.3	70.9	59.3	55.0	53.5	55.0	52.1	50.7
70°	81.0	73.8	59.3	60.8	53.5	43.4	39.1	37.6	34.7	30.4	27.5
72.5°	44.9	44.9	43.4	46.3	37.6	28.9	24.6	20.3	15.9	13.0	11.6
75°	27.5	28.9	30.4	31.8	24.6	18.8	15.9	10.1	5.8	2.9	2.9
77.5°	18.8	20.3	21.7	23.2	20.3	17.4	13.0	7.2	1.4	0.0	0.0
80°	14.5	15.9	18.8	20.3	21.7	23.2	17.4	7.2	1.4	0.0	0.0
82.5°	15.9	17.4	21.7	20.3	20.3	20.3	15.9	7.2	1.4	0.0	0.0
85°	2.9	4.3	7.2	7.2	10.1	13.0	10.1	2.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)