

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: P528179

Luminaire Tested: **GALN-SA3B-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9030 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

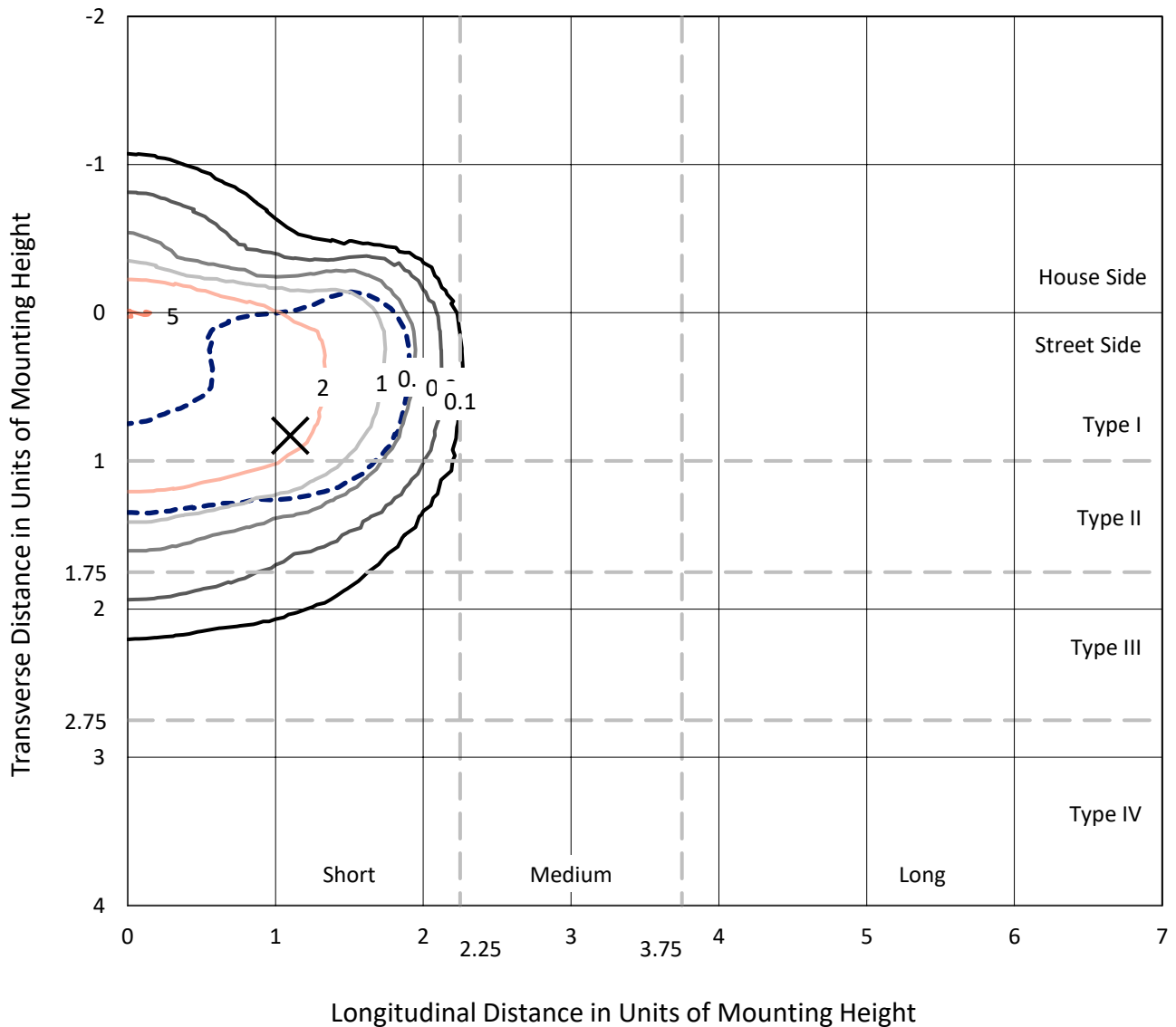
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

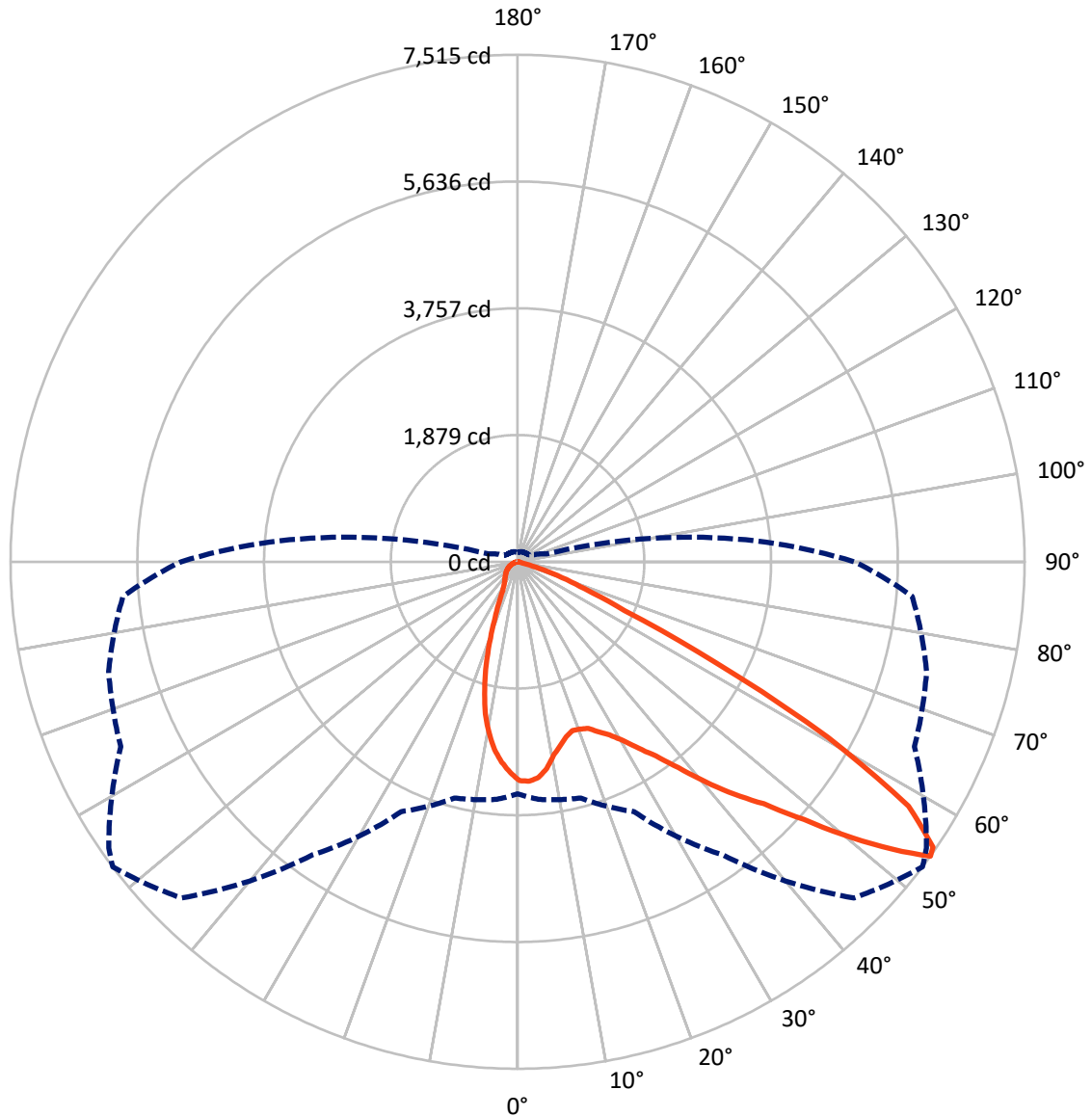
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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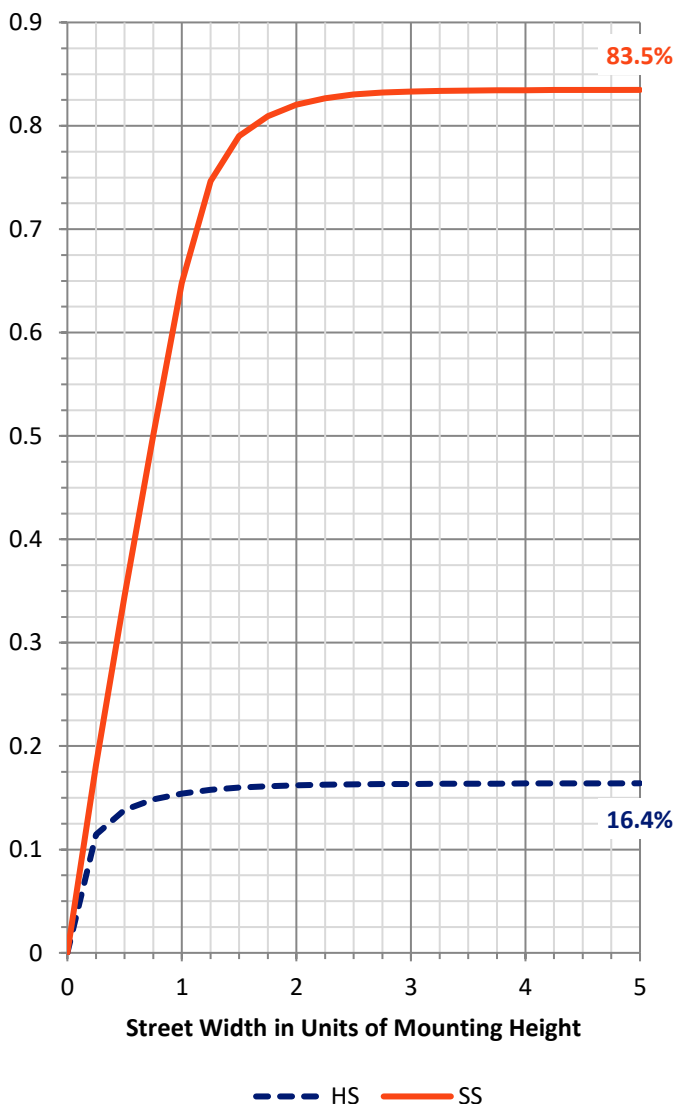
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1494.0	0.0	1494.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7536.0	0.0	7536.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	9030.0	0.0	9030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	3.1
10°-20°	638.0	7.1
20°-30°	906.7	10.0
30°-40°	1399.3	15.5
40°-50°	2194.0	24.3
50°-60°	2548.7	28.2
60°-70°	963.0	10.7
70°-80°	91.6	1.0
80°-90°	10.3	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°	9030.0	100.0
0°-180°	9030.0	100.0

Coefficient of Utilization

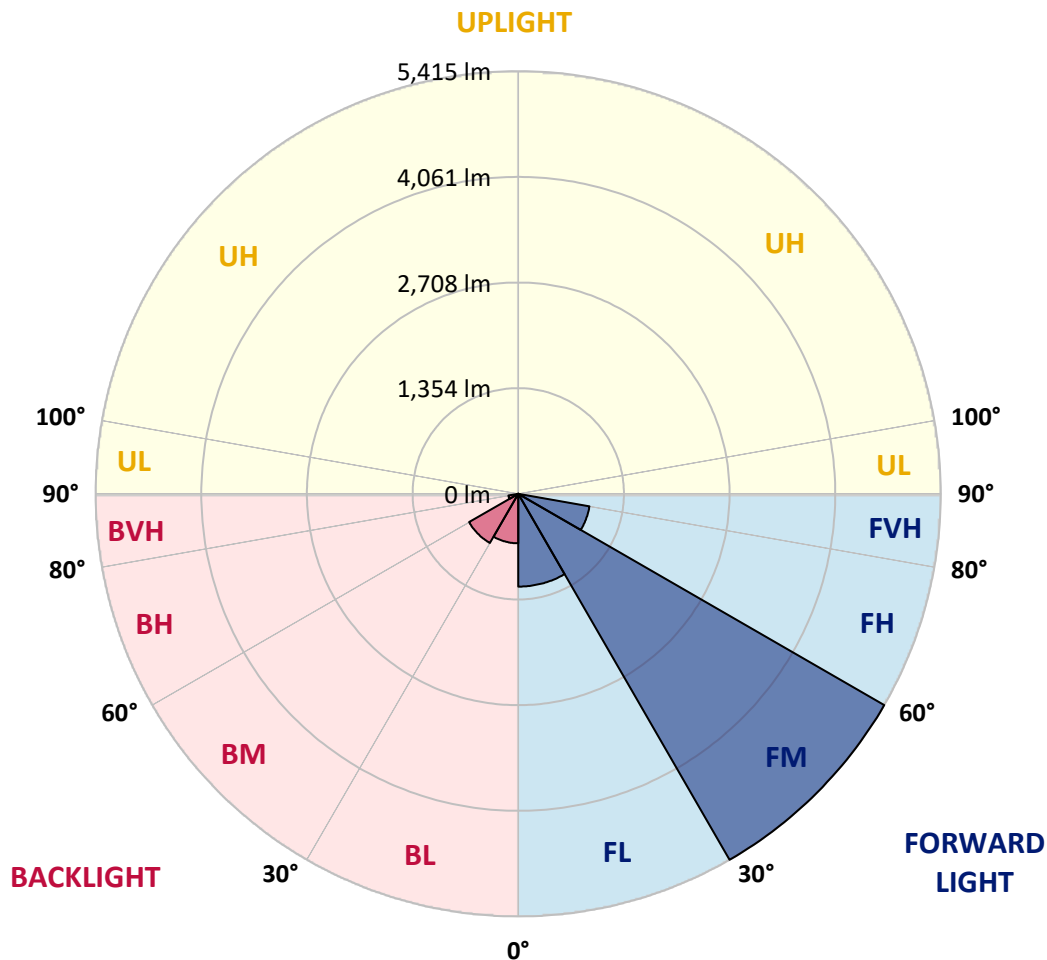


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1189.0	13.2			
FM (30°-60°)	5415.0	60.0			
FH (60°-80°)	926.6	10.3			G1/1800
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	634.0	7.0	B2/1000		
BM (30°-60°)	727.0	8.1	B1/1000		
BH (60°-80°)	128.0	1.4	B1/500		G1/500
BVH (80°-90°)	5.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4
2.5°	3226.6	3198.0	3226.6	3230.0	3250.2	3268.7	3256.9	3283.8	3268.7	3251.8	3246.8
5°	2965.8	3004.5	3006.2	3066.8	3053.3	3164.4	3213.1	3199.7	3282.1	3277.1	3265.3
7.5°	2732.0	2716.9	2737.1	2807.7	2896.9	3024.7	3095.4	3093.7	3211.5	3295.6	3287.2
10°	2515.0	2513.3	2555.4	2610.9	2686.6	2821.2	2918.7	2967.5	3150.9	3278.8	3297.3
12.5°	2368.6	2361.9	2407.3	2452.8	2572.2	2676.5	2801.0	2824.5	3034.8	3219.9	3250.2
15°	2272.8	2287.9	2291.3	2378.7	2454.4	2592.4	2690.0	2738.7	2981.0	3172.8	3288.8
17.5°	2255.9	2276.1	2277.8	2350.1	2430.9	2547.0	2632.8	2698.4	2935.6	3196.3	3290.5
20°	2289.6	2277.8	2287.9	2333.3	2412.4	2523.4	2647.9	2669.8	2920.4	3208.1	3309.0
22.5°	2385.5	2382.1	2356.9	2393.9	2449.4	2565.5	2683.2	2716.9	2964.2	3268.7	3324.2
25°	2491.4	2510.0	2486.4	2481.4	2520.0	2634.4	2790.9	2834.6	3110.5	3378.0	3371.3
27.5°	2690.0	2671.5	2671.5	2647.9	2637.8	2693.3	2907.0	2979.3	3273.7	3519.3	3425.1
30°	2880.1	2900.2	2885.1	2893.5	2826.2	2821.2	3071.8	3161.0	3563.1	3734.6	3539.5
32.5°	3181.2	3154.3	3179.5	3157.6	3068.5	2977.6	3295.6	3388.1	3913.0	3981.9	3711.1
35°	3431.8	3420.1	3527.7	3524.4	3379.7	3290.5	3532.8	3670.7	4156.9	4278.0	3913.0
37.5°	3788.5	3766.6	3889.4	3948.3	3818.8	3685.9	3872.6	4032.4	4384.0	4515.2	4119.9
40°	4155.2	4210.7	4375.6	4473.2	4335.2	4158.6	4288.1	4336.9	4535.4	4670.0	4261.2
42.5°	4619.5	4700.3	4868.5	4952.6	4940.8	4749.1	4710.4	4708.7	4644.8	4626.3	4365.5
45°	5065.3	5035.0	5294.1	5477.5	5625.5	5570.0	5117.5	5067.0	4818.0	4691.9	4392.4
47.5°	5260.5	5250.4	5427.0	5753.4	6258.1	6327.0	5709.6	5514.5	5110.7	4967.8	4538.8
50°	5008.1	5060.3	5235.2	5596.9	6370.8	6897.3	6436.4	6173.9	5452.2	5304.2	4885.3
52.5°	4183.8	4219.1	4385.7	4844.9	5987.2	7233.8	7132.8	6981.4	6079.7	5834.1	5489.3
54°	3440.2	3534.5	3625.3	4086.2	5304.2	7047.0	7514.7	7398.6	6488.5	6274.9	5869.5
55°	2996.1	3051.6	3117.3	3576.5	4831.5	6730.8	7471.0	7481.1	6762.7	6412.8	6125.2
57.5°	2188.6	2227.3	2160.0	2363.6	3317.4	5465.7	6833.4	7105.9	7132.8	6619.7	6281.6
60°	1672.2	1689.0	1613.3	1645.3	2062.5	3751.5	5285.7	5613.7	6434.7	5785.3	5321.0
62.5°	1297.0	1300.4	1298.7	1354.2	1421.5	2207.1	3305.7	3596.7	4436.2	4108.1	3613.5
65°	955.5	940.4	967.3	1135.5	1212.9	1387.9	1741.2	1953.1	2410.7	2035.6	1455.2
67.5°	619.1	624.1	651.0	844.5	1039.6	1064.9	1071.6	1054.8	1056.5	582.1	365.1
70°	371.8	380.2	371.8	477.8	743.6	763.8	698.1	681.3	531.6	137.9	136.3
72.5°	220.4	208.6	186.7	205.2	309.5	370.1	333.1	331.4	208.6	80.7	80.7
75°	92.5	84.1	69.0	62.2	82.4	79.1	79.1	70.7	55.5	53.8	50.5
77.5°	18.5	18.5	13.5	15.1	20.2	23.6	28.6	28.6	33.6	33.6	32.0
80°	0.0	1.7	5.0	10.1	15.1	21.9	25.2	25.2	28.6	28.6	23.6
82.5°	0.0	1.7	5.0	10.1	13.5	20.2	25.2	25.2	28.6	30.3	25.2
85°	0.0	1.7	5.0	8.4	13.5	16.8	16.8	15.1	11.8	10.1	6.7
87.5°	0.0	0.0	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4	3243.4
2.5°	3258.6	3256.9	3216.5	3150.9	3135.8	3080.2	3073.5	3039.9	3058.4	2996.1	2989.4
5°	3231.6	3211.5	3162.7	3120.6	2997.8	2910.3	2841.4	2757.2	2708.5	2716.9	2684.9
7.5°	3270.3	3218.2	3132.4	2986.0	2836.3	2683.2	2600.8	2429.2	2367.0	2274.4	2261.0
10°	3230.0	3191.3	3058.4	2816.1	2609.2	2388.8	2195.4	2005.3	1860.6	1798.4	1784.9
12.5°	3226.6	3159.3	2937.2	2668.1	2368.6	2052.4	1771.4	1534.2	1391.2	1310.5	1292.0
15°	3174.5	3093.7	2801.0	2439.3	2025.5	1631.8	1325.6	1096.8	987.5	940.4	953.8
17.5°	3179.5	3058.4	2664.7	2197.0	1687.3	1197.8	905.1	787.3	758.7	770.5	770.5
20°	3174.5	2979.3	2499.9	1917.8	1292.0	831.0	664.5	622.4	640.9	678.0	669.5
22.5°	3147.5	2942.3	2348.5	1623.4	950.5	615.7	533.3	535.0	563.6	609.0	619.1
25°	3167.7	2859.9	2156.7	1325.6	693.1	491.2	462.6	474.4	504.7	538.3	545.1
27.5°	3152.6	2801.0	1956.5	1029.6	506.4	422.3	420.6	434.0	447.5	472.7	472.7
30°	3169.4	2747.2	1759.7	765.4	417.2	386.9	380.2	390.3	403.7	408.8	407.1
32.5°	3231.6	2706.8	1532.6	572.0	368.4	353.3	353.3	353.3	351.6	358.3	360.0
35°	3367.9	2713.5	1332.4	442.4	336.5	324.7	319.6	312.9	309.5	312.9	314.6
37.5°	3516.0	2710.1	1125.4	376.8	312.9	302.8	291.0	280.9	279.3	282.6	277.6
40°	3581.6	2742.1	933.7	338.1	291.0	279.3	260.8	252.3	254.0	257.4	254.0
42.5°	3670.7	2752.2	809.2	307.9	270.8	252.3	240.6	230.5	228.8	233.8	232.2
45°	3669.0	2695.0	678.0	291.0	252.3	232.2	217.0	208.6	208.6	212.0	213.6
47.5°	3776.7	2686.6	582.1	275.9	238.9	218.7	200.2	193.5	191.8	191.8	188.4
50°	4027.4	2804.4	508.0	259.1	222.1	203.6	188.4	180.0	173.3	169.9	168.2
52.5°	4516.9	3171.1	450.8	238.9	203.6	188.4	175.0	168.2	159.8	151.4	149.7
54°	4991.3	3549.6	447.5	222.1	188.4	178.3	166.5	163.2	153.1	141.3	137.9
55°	5205.0	3770.0	459.3	208.6	178.3	171.6	161.5	158.1	148.0	134.6	132.9
57.5°	5381.6	3855.8	452.5	173.3	161.5	159.8	151.4	146.4	134.6	116.1	112.7
60°	4331.9	2915.4	324.7	153.1	148.0	144.7	137.9	134.6	119.4	99.3	97.6
62.5°	2737.1	1677.2	206.9	134.6	129.5	124.5	116.1	112.7	99.3	79.1	74.0
65°	1165.8	694.8	139.6	119.4	111.0	102.6	95.9	90.8	79.1	58.9	57.2
67.5°	302.8	247.3	116.1	104.3	92.5	80.7	75.7	67.3	53.8	40.4	38.7
70°	136.3	124.5	97.6	87.5	74.0	62.2	55.5	47.1	35.3	26.9	25.2
72.5°	80.7	79.1	74.0	65.6	55.5	47.1	40.4	32.0	23.6	15.1	15.1
75°	50.5	48.8	50.5	45.4	38.7	35.3	30.3	21.9	13.5	6.7	6.7
77.5°	30.3	30.3	30.3	28.6	26.9	26.9	21.9	13.5	6.7	1.7	1.7
80°	23.6	23.6	25.2	23.6	23.6	23.6	18.5	10.1	3.4	0.0	0.0
82.5°	23.6	25.2	28.6	26.9	23.6	20.2	16.8	10.1	3.4	0.0	0.0
85°	6.7	5.0	8.4	11.8	16.8	15.1	11.8	8.4	3.4	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	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)