

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: P528881

Luminaire Tested: **GALN-SA4A-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528881
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-SA4A-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 9617 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

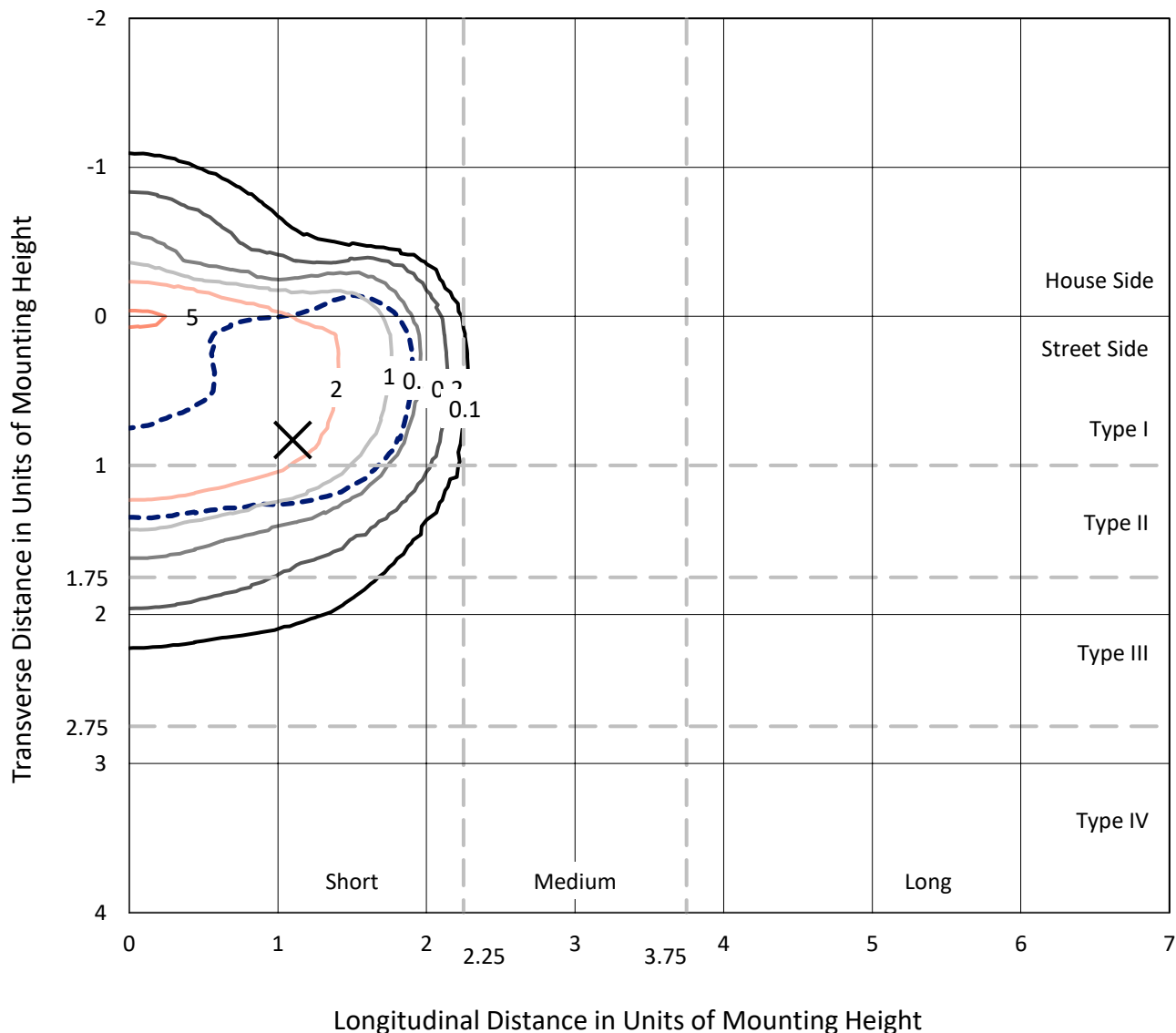
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

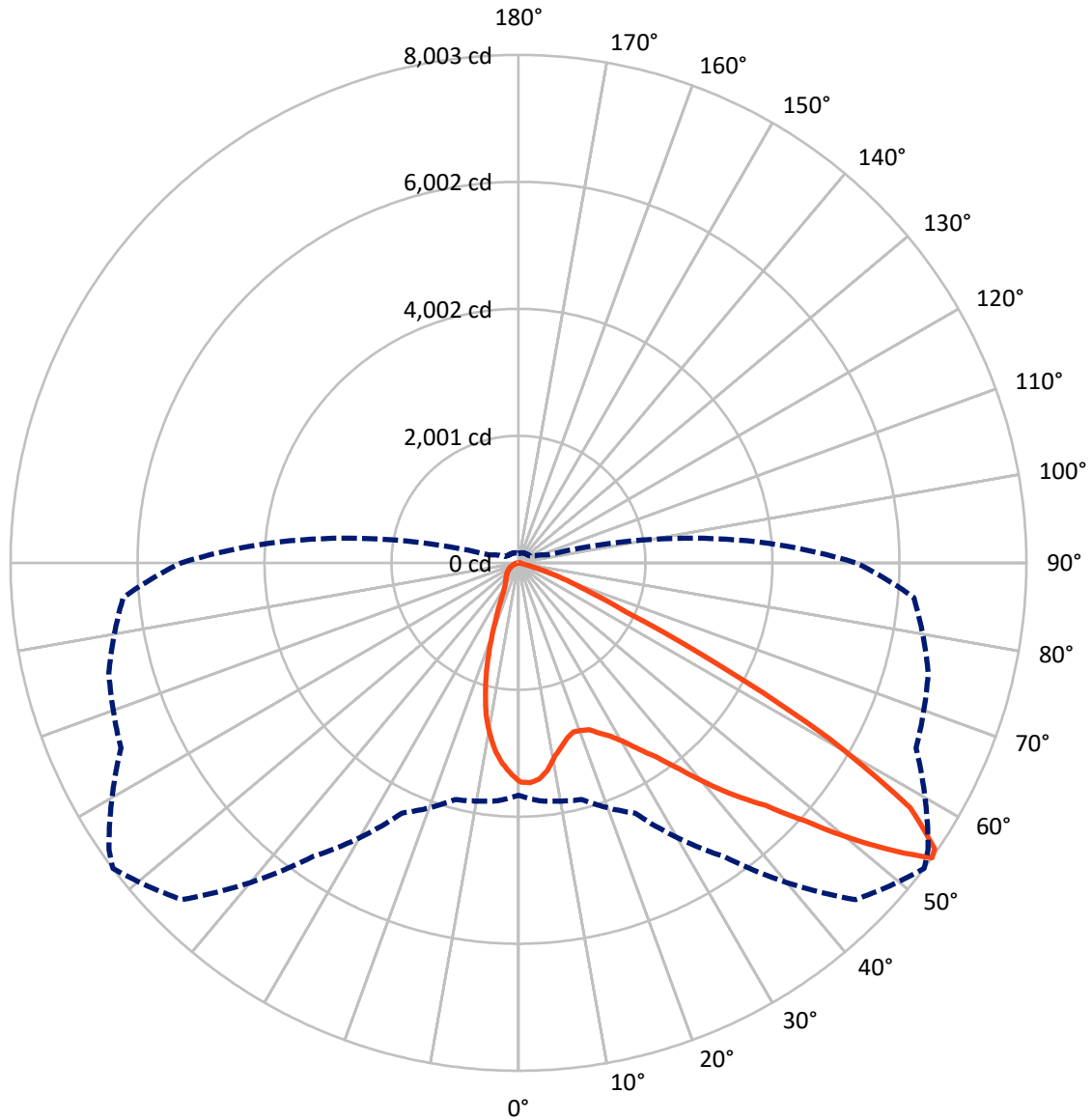
✕ Max cd
 - - - 1/2 Max cd



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

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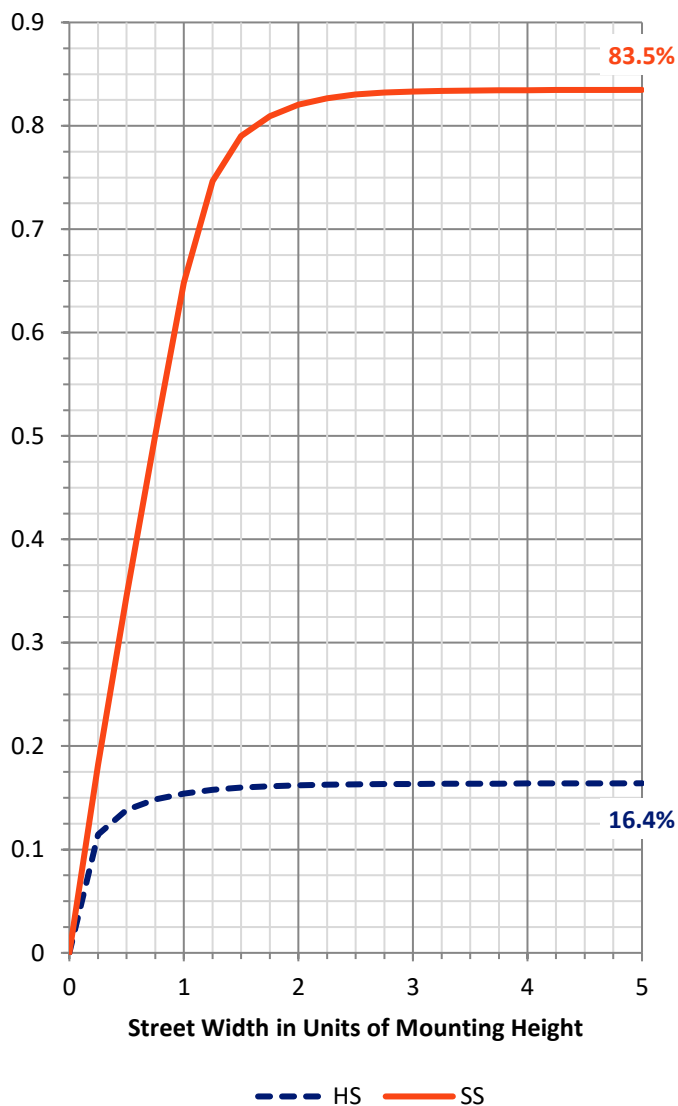
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1591.2	0.0	1591.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8025.8	0.0	8025.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	9617.0	0.0	9617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	3.1
10°-20°	679.5	7.1
20°-30°	965.7	10.0
30°-40°	1490.3	15.5
40°-50°	2336.7	24.3
50°-60°	2714.4	28.2
60°-70°	1025.6	10.7
70°-80°	97.5	1.0
80°-90°	11.0	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°	9617.0	100.0
0°-180°	9617.0	100.0

Coefficient of Utilization

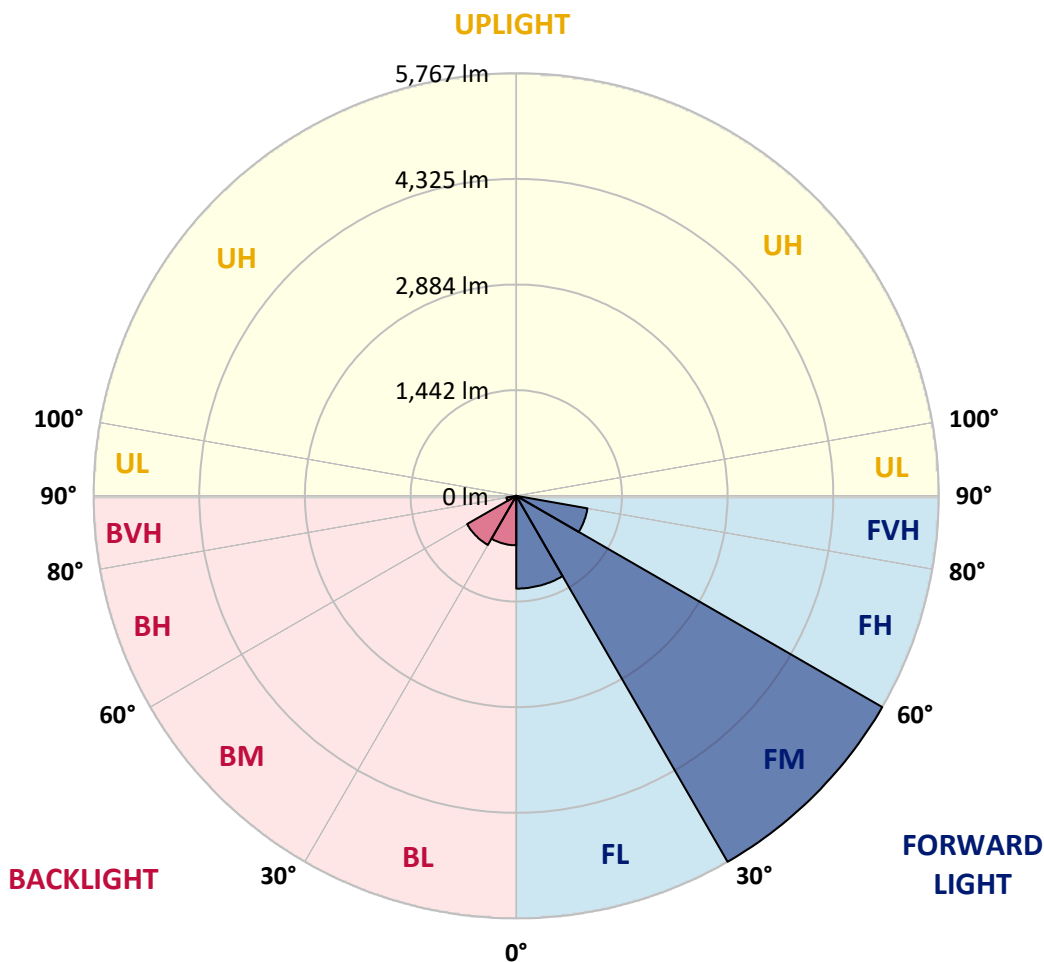


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.3	13.2			
FM (30°-60°)	5767.0	60.0			
FH (60°-80°)	986.9	10.3			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	675.2	7.0	B2/1000		
BM (30°-60°)	774.3	8.1	B1/1000		
BH (60°-80°)	136.3	1.4	B1/500		G1/500
BVH (80°-90°)	5.3	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°	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3
2.5°	3436.3	3405.9	3436.3	3439.9	3461.4	3481.1	3468.6	3497.3	3481.1	3463.2	3457.8
5°	3158.6	3199.9	3201.6	3266.1	3251.8	3370.1	3422.0	3407.7	3495.5	3490.1	3477.6
7.5°	2909.6	2893.5	2915.0	2990.2	3085.2	3221.4	3296.6	3294.8	3420.2	3509.8	3500.8
10°	2678.5	2676.7	2721.5	2780.6	2861.2	3004.6	3108.5	3160.4	3355.7	3491.9	3511.6
12.5°	2522.6	2515.4	2563.8	2612.2	2739.4	2850.5	2983.1	3008.1	3232.1	3429.2	3461.4
15°	2420.5	2436.6	2440.2	2533.4	2614.0	2760.9	2864.8	2916.8	3174.8	3379.0	3502.6
17.5°	2402.6	2424.1	2425.9	2502.9	2588.9	2712.5	2803.9	2873.8	3126.4	3404.1	3504.4
20°	2438.4	2425.9	2436.6	2485.0	2569.2	2687.4	2820.0	2843.3	3110.3	3416.6	3524.1
22.5°	2540.5	2536.9	2510.1	2549.5	2608.6	2732.2	2857.7	2893.5	3156.9	3481.1	3540.3
25°	2653.4	2673.1	2648.0	2642.7	2683.9	2805.7	2972.3	3018.9	3312.7	3597.6	3590.4
27.5°	2864.8	2845.1	2845.1	2820.0	2809.3	2868.4	3095.9	3173.0	3486.5	3748.1	3647.8
30°	3067.3	3088.8	3072.6	3081.6	3009.9	3004.6	3271.5	3366.5	3794.7	3977.4	3769.6
32.5°	3388.0	3359.3	3386.2	3362.9	3267.9	3171.2	3509.8	3608.3	4167.3	4240.8	3952.3
35°	3654.9	3642.4	3757.0	3753.5	3599.4	3504.4	3762.4	3909.3	4427.1	4556.1	4167.3
37.5°	4034.8	4011.5	4142.3	4205.0	4067.0	3925.5	4124.3	4294.5	4669.0	4808.7	4387.7
40°	4425.3	4484.5	4660.0	4763.9	4617.0	4428.9	4566.9	4618.8	4830.2	4973.6	4538.2
42.5°	4919.8	5005.8	5185.0	5274.6	5262.0	5057.8	5016.6	5014.8	4946.7	4927.0	4649.3
45°	5394.6	5362.4	5638.3	5833.6	5991.2	5932.1	5450.1	5396.4	5131.2	4996.9	4677.9
47.5°	5602.4	5591.7	5779.8	6127.4	6664.9	6738.3	6080.8	5873.0	5443.0	5290.7	4833.8
50°	5333.7	5389.2	5575.6	5960.8	6784.9	7345.7	6854.8	6575.3	5806.7	5649.0	5202.9
52.5°	4455.8	4493.4	4670.8	5159.9	6376.4	7704.0	7596.5	7435.3	6475.0	6213.4	5846.1
54°	3663.9	3764.2	3861.0	4351.9	5649.0	7505.1	8003.2	7879.6	6910.3	6682.8	6251.0
55°	3190.9	3250.0	3319.9	3809.0	5145.6	7168.3	7956.6	7967.4	7202.4	6829.7	6523.3
57.5°	2330.9	2372.1	2300.5	2517.2	3533.1	5821.0	7277.6	7567.8	7596.5	7050.1	6689.9
60°	1780.9	1798.8	1718.2	1752.2	2196.5	3995.3	5629.3	5978.7	6853.0	6161.4	5666.9
62.5°	1381.3	1384.9	1383.1	1442.3	1513.9	2350.6	3520.6	3830.5	4724.5	4375.2	3848.4
65°	1017.6	1001.5	1030.2	1209.4	1291.8	1478.1	1854.3	2080.1	2567.4	2167.9	1549.8
67.5°	659.3	664.7	693.4	899.4	1107.2	1134.1	1141.3	1123.4	1125.1	619.9	388.8
70°	396.0	404.9	396.0	508.8	791.9	813.4	743.5	725.6	566.2	146.9	145.1
72.5°	234.7	222.2	198.9	218.6	329.7	394.2	354.7	353.0	222.2	86.0	86.0
75°	98.5	89.6	73.5	66.3	87.8	84.2	84.2	75.2	59.1	57.3	53.7
77.5°	19.7	19.7	14.3	16.1	21.5	25.1	30.5	30.5	35.8	35.8	34.0
80°	0.0	1.8	5.4	10.7	16.1	23.3	26.9	26.9	30.5	30.5	25.1
82.5°	0.0	1.8	5.4	10.7	14.3	21.5	26.9	26.9	30.5	32.2	26.9
85°	0.0	1.8	5.4	9.0	14.3	17.9	17.9	16.1	12.5	10.7	7.2
87.5°	0.0	0.0	1.8	3.6	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3
2.5°	3470.4	3468.6	3425.6	3355.7	3339.6	3280.5	3273.3	3237.5	3257.2	3190.9	3183.7
5°	3441.7	3420.2	3368.3	3323.5	3192.7	3099.5	3026.1	2936.5	2884.5	2893.5	2859.4
7.5°	3482.9	3427.4	3336.0	3180.1	3020.7	2857.7	2769.9	2587.1	2520.8	2422.3	2408.0
10°	3439.9	3398.7	3257.2	2999.2	2778.8	2544.1	2338.1	2135.6	1981.5	1915.3	1900.9
12.5°	3436.3	3364.7	3128.2	2841.5	2522.6	2185.8	1886.6	1634.0	1481.7	1395.7	1376.0
15°	3380.8	3294.8	2983.1	2597.9	2157.1	1737.9	1411.8	1168.1	1051.7	1001.5	1015.9
17.5°	3386.2	3257.2	2837.9	2339.9	1797.0	1275.6	963.9	838.5	808.0	820.6	820.6
20°	3380.8	3173.0	2662.4	2042.5	1376.0	885.1	707.7	662.9	682.6	722.0	713.1
22.5°	3352.1	3133.6	2501.1	1728.9	1012.3	655.7	567.9	569.7	600.2	648.6	659.3
25°	3373.6	3045.8	2296.9	1411.8	738.2	523.2	492.7	505.2	537.5	573.3	580.5
27.5°	3357.5	2983.1	2083.7	1096.5	539.3	449.7	447.9	462.2	476.6	503.4	503.4
30°	3375.4	2925.7	1874.0	815.2	444.3	412.1	404.9	415.7	430.0	435.4	433.6
32.5°	3441.7	2882.7	1632.2	609.2	392.4	376.2	376.2	376.2	374.5	381.6	383.4
35°	3586.8	2889.9	1419.0	471.2	358.3	345.8	340.4	333.2	329.7	333.2	335.0
37.5°	3744.5	2886.3	1198.6	401.3	333.2	322.5	310.0	299.2	297.4	301.0	295.6
40°	3814.4	2920.4	994.4	360.1	310.0	297.4	277.7	268.7	270.5	274.1	270.5
42.5°	3909.3	2931.1	861.8	327.9	288.5	268.7	256.2	245.5	243.7	249.0	247.2
45°	3907.5	2870.2	722.0	310.0	268.7	247.2	231.1	222.2	222.2	225.7	227.5
47.5°	4022.2	2861.2	619.9	293.8	254.4	232.9	213.2	206.0	204.2	204.2	200.7
50°	4289.2	2986.6	541.1	275.9	236.5	216.8	200.7	191.7	184.5	181.0	179.2
52.5°	4810.5	3377.2	480.2	254.4	216.8	200.7	186.3	179.2	170.2	161.2	159.5
54°	5315.8	3780.3	476.6	236.5	200.7	189.9	177.4	173.8	163.0	150.5	146.9
55°	5543.3	4015.0	489.1	222.2	189.9	182.7	172.0	168.4	157.7	143.3	141.5
57.5°	5731.4	4106.4	481.9	184.5	172.0	170.2	161.2	155.9	143.3	123.6	120.0
60°	4613.4	3104.9	345.8	163.0	157.7	154.1	146.9	143.3	127.2	105.7	103.9
62.5°	2915.0	1786.3	220.4	143.3	138.0	132.6	123.6	120.0	105.7	84.2	78.8
65°	1241.6	739.9	148.7	127.2	118.2	109.3	102.1	96.7	84.2	62.7	60.9
67.5°	322.5	263.4	123.6	111.1	98.5	86.0	80.6	71.7	57.3	43.0	41.2
70°	145.1	132.6	103.9	93.2	78.8	66.3	59.1	50.2	37.6	28.7	26.9
72.5°	86.0	84.2	78.8	69.9	59.1	50.2	43.0	34.0	25.1	16.1	16.1
75°	53.7	52.0	53.7	48.4	41.2	37.6	32.2	23.3	14.3	7.2	7.2
77.5°	32.2	32.2	32.2	30.5	28.7	28.7	23.3	14.3	7.2	1.8	1.8
80°	25.1	25.1	26.9	25.1	25.1	25.1	19.7	10.7	3.6	0.0	0.0
82.5°	25.1	26.9	30.5	28.7	25.1	21.5	17.9	10.7	3.6	0.0	0.0
85°	7.2	5.4	9.0	12.5	17.9	16.1	12.5	9.0	3.6	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	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)