

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: P651834

Luminaire Tested: **GALN-SA4A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651834
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-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 8880.1 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

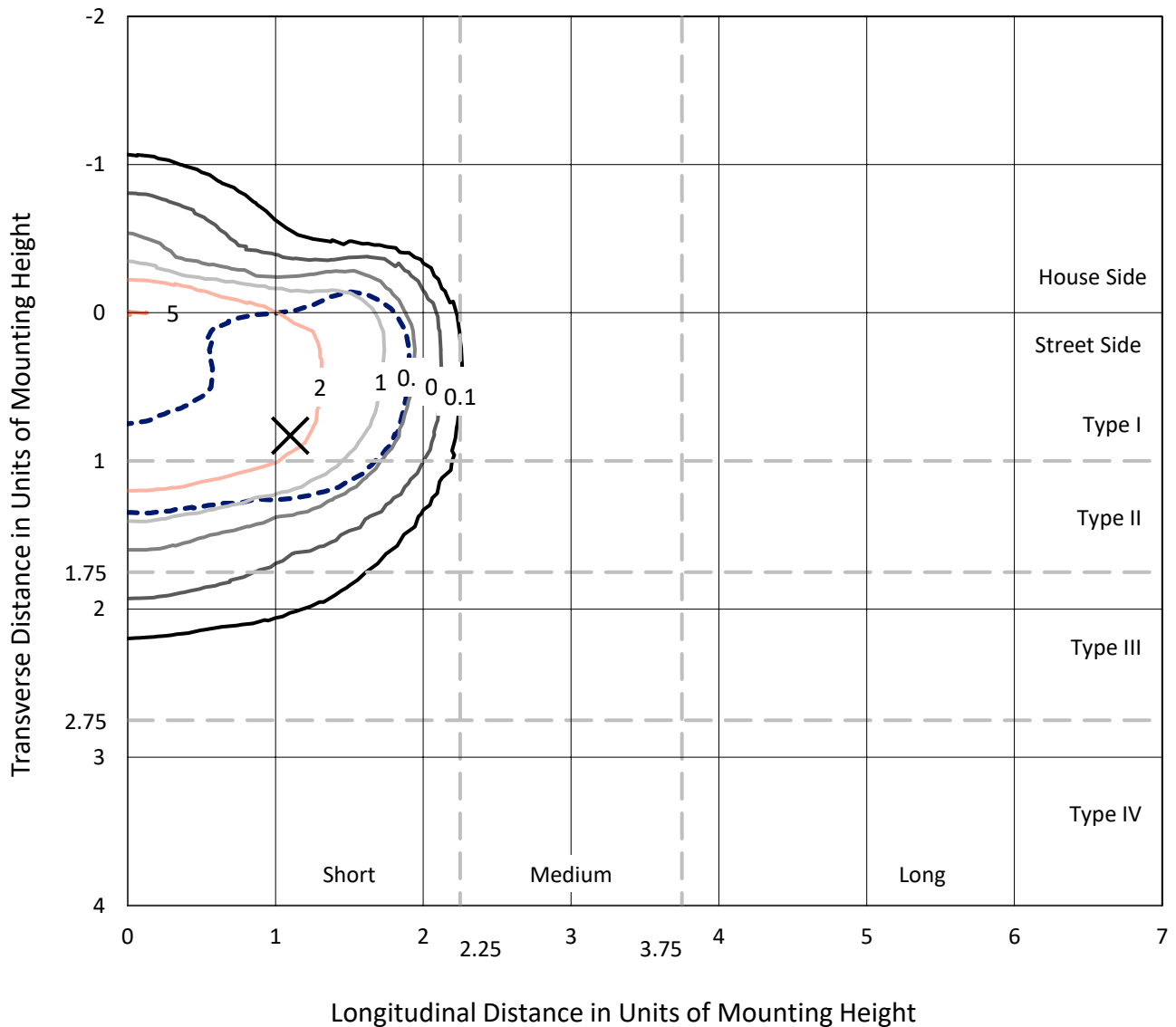
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

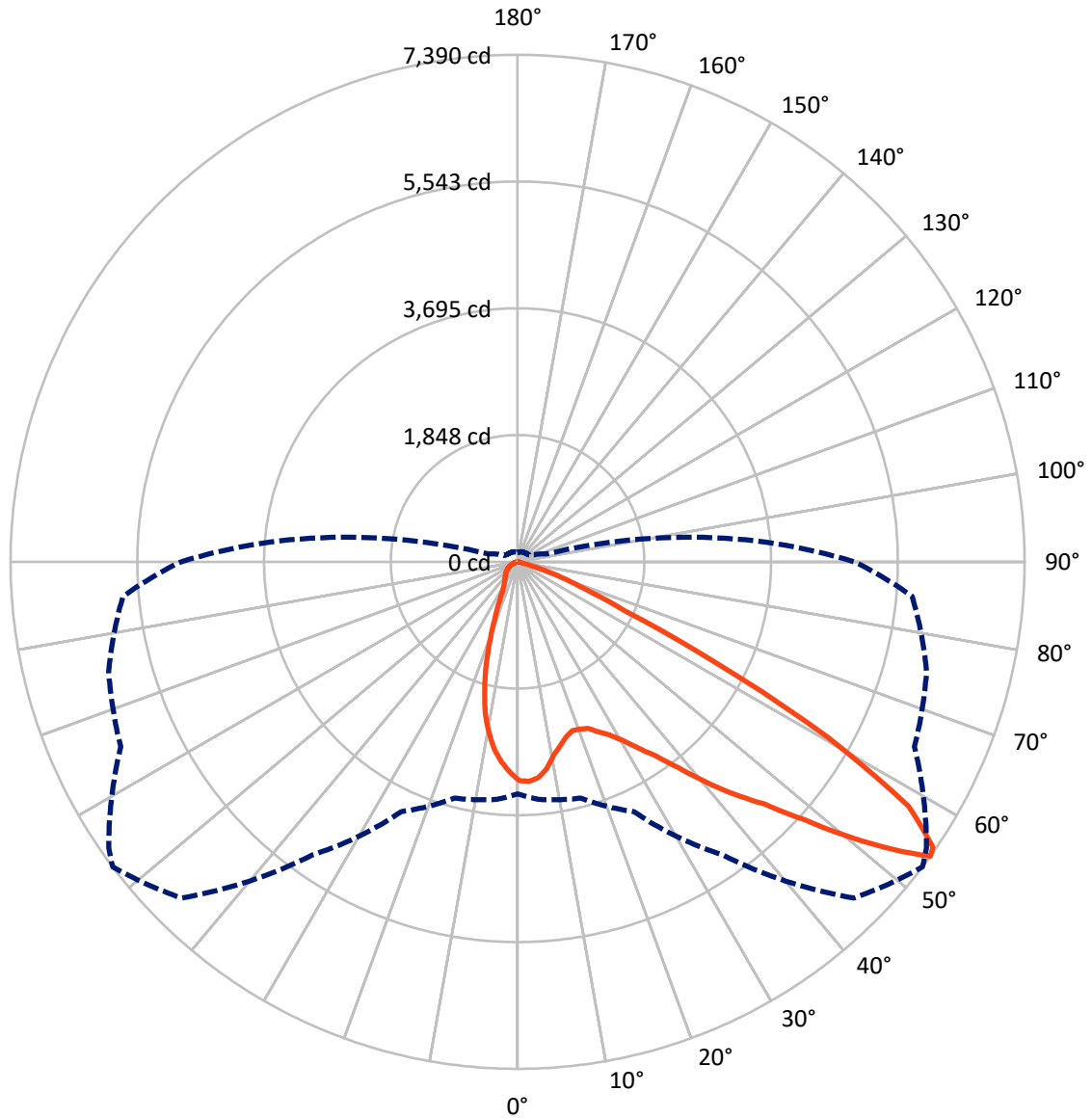
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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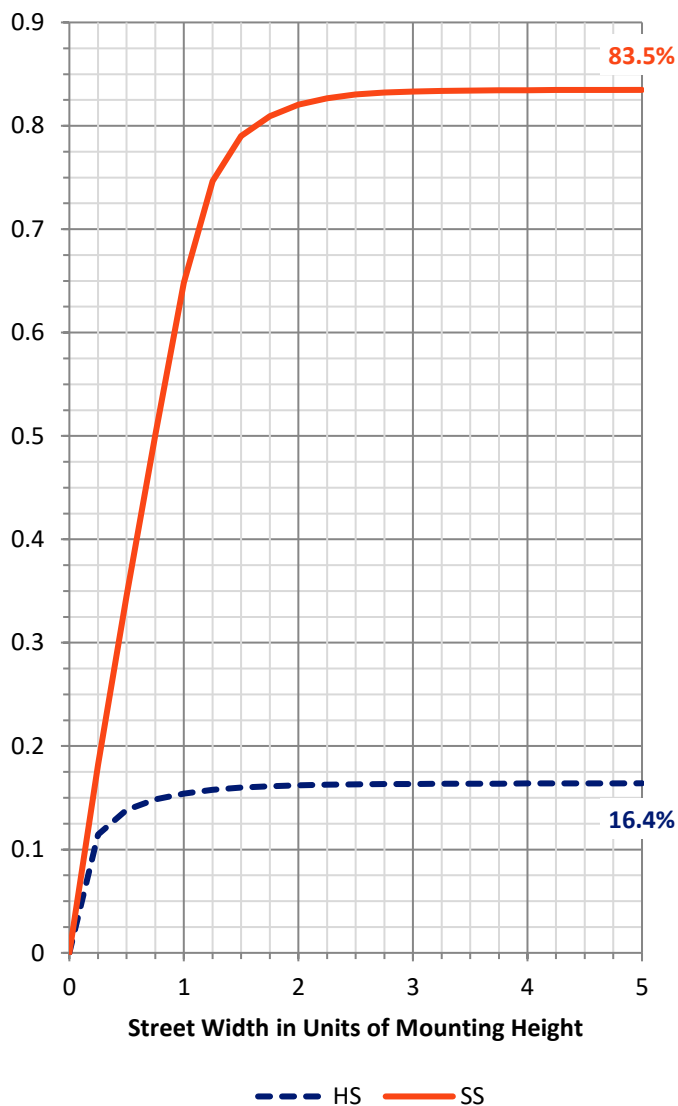
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.2	0.0	1469.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7410.9	0.0	7410.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	8880.1	0.0	8880.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	3.1
10°-20°	627.4	7.1
20°-30°	891.7	10.0
30°-40°	1376.1	15.5
40°-50°	2157.6	24.3
50°-60°	2506.4	28.2
60°-70°	947.1	10.7
70°-80°	90.1	1.0
80°-90°	10.1	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°	8880.1	100.0
0°-180°	8880.1	100.0

Coefficient of Utilization

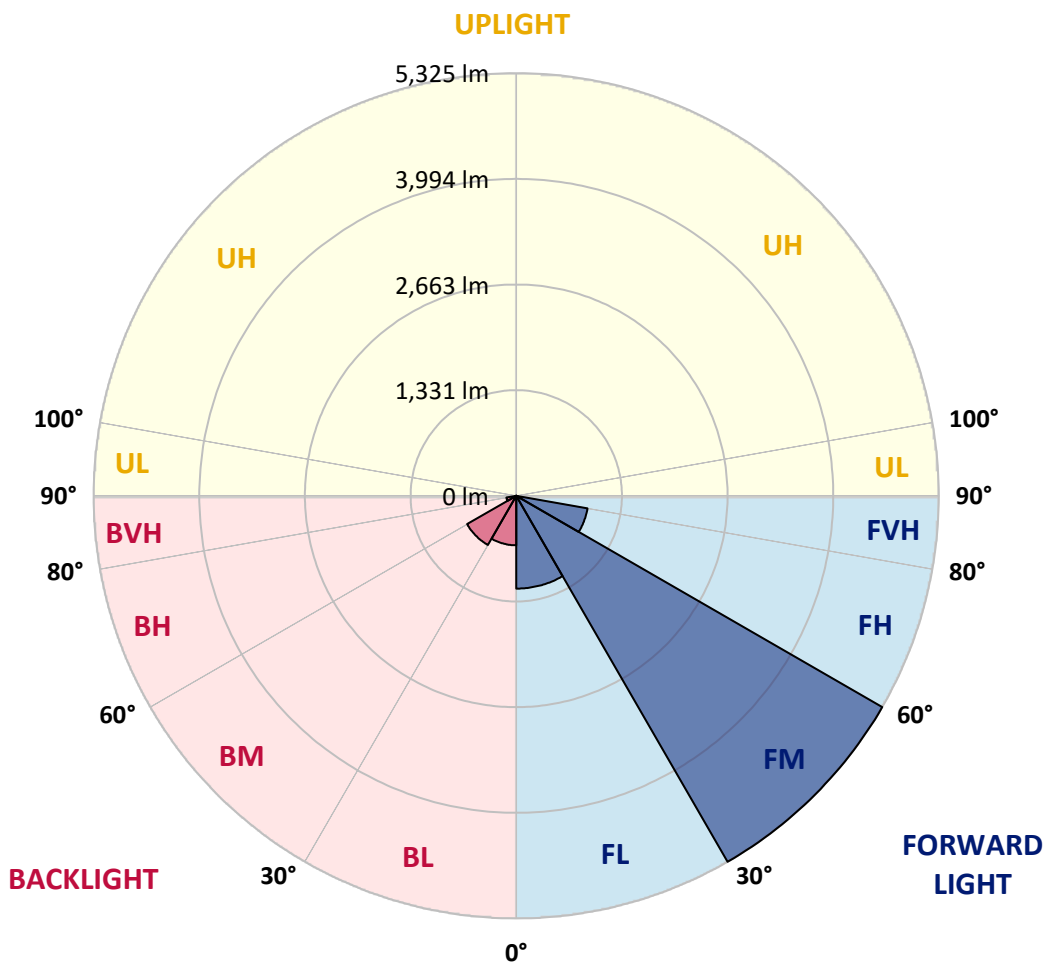


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.3	13.2			
FM (30°-60°)	5325.1	60.0			
FH (60°-80°)	911.2	10.3			G1/1800
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	623.5	7.0	B2/1000		
BM (30°-60°)	715.0	8.1	B1/1000		
BH (60°-80°)	125.9	1.4	B1/500		G1/500
BVH (80°-90°)	4.9	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°	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6
2.5°	3173.0	3144.9	3173.0	3176.4	3196.2	3214.4	3202.9	3229.3	3214.4	3197.9	3192.9
5°	2916.6	2954.7	2956.4	3015.9	3002.6	3111.9	3159.8	3146.6	3227.7	3222.7	3211.1
7.5°	2686.7	2671.8	2691.6	2761.1	2848.8	2974.5	3044.0	3042.3	3158.1	3240.9	3232.6
10°	2473.3	2471.6	2513.0	2567.6	2642.0	2774.4	2870.3	2918.3	3098.6	3224.3	3242.6
12.5°	2329.3	2322.7	2367.4	2412.1	2529.5	2632.1	2754.5	2777.7	2984.5	3166.4	3196.2
15°	2235.0	2249.9	2253.2	2339.2	2413.7	2549.3	2645.3	2693.3	2931.5	3120.1	3234.2
17.5°	2218.5	2238.3	2240.0	2311.2	2390.5	2504.7	2589.0	2653.6	2886.8	3143.2	3235.9
20°	2251.6	2240.0	2249.9	2294.6	2372.4	2481.5	2604.0	2625.4	2871.9	3154.8	3254.1
22.5°	2345.9	2342.5	2317.7	2354.1	2408.7	2522.9	2638.7	2671.8	2915.0	3214.4	3269.0
25°	2450.1	2468.3	2445.1	2440.2	2478.3	2590.7	2744.6	2787.6	3058.9	3322.0	3315.3
27.5°	2645.3	2627.1	2627.1	2604.0	2594.1	2648.6	2858.7	2929.9	3219.3	3460.9	3368.3
30°	2832.2	2852.1	2837.2	2845.5	2779.3	2774.4	3020.9	3108.5	3503.9	3672.6	3480.7
32.5°	3128.4	3101.9	3126.8	3105.2	3017.5	2928.2	3240.9	3331.9	3848.0	3915.9	3649.5
35°	3374.8	3363.3	3469.2	3465.8	3323.6	3235.9	3474.2	3609.8	4087.9	4207.0	3848.0
37.5°	3725.6	3704.1	3824.9	3882.7	3755.4	3624.7	3808.3	3965.5	4311.2	4440.3	4051.5
40°	4086.3	4140.8	4303.0	4398.9	4263.3	4089.5	4216.9	4264.9	4460.2	4592.4	4190.5
42.5°	4542.8	4622.2	4787.7	4870.4	4858.8	4670.2	4632.1	4630.5	4567.6	4549.5	4293.1
45°	4981.2	4951.5	5206.2	5386.6	5532.2	5477.5	5032.5	4982.9	4738.0	4614.0	4319.5
47.5°	5173.2	5163.2	5336.9	5657.9	6154.2	6222.1	5614.9	5422.9	5025.9	4885.3	4463.4
50°	4925.0	4976.3	5148.3	5504.0	6265.0	6782.8	6329.5	6071.4	5361.7	5216.1	4804.2
52.5°	4114.3	4149.1	4312.9	4764.5	5887.8	7113.7	7014.4	6865.6	5978.8	5737.3	5398.1
54°	3383.2	3475.8	3565.2	4018.4	5216.1	6930.1	7390.0	7275.8	6380.8	6170.8	5772.0
55°	2946.4	3001.0	3065.5	3517.1	4751.3	6619.1	7347.0	7356.9	6650.5	6306.4	6023.5
57.5°	2152.3	2190.4	2124.2	2324.4	3262.4	5375.0	6720.0	6988.0	7014.4	6509.8	6177.3
60°	1644.4	1661.0	1586.5	1617.9	2028.2	3689.2	5198.0	5520.6	6327.9	5689.3	5232.7
62.5°	1275.5	1278.8	1277.1	1331.7	1397.9	2170.5	3250.8	3537.0	4362.5	4039.9	3553.6
65°	939.6	924.8	951.3	1116.7	1192.8	1364.9	1712.3	1920.7	2370.7	2001.7	1431.0
67.5°	608.8	613.8	640.3	830.5	1022.4	1047.2	1053.9	1037.3	1039.0	572.4	359.0
70°	365.6	373.9	365.6	469.9	731.2	751.1	686.6	670.0	522.8	135.7	134.0
72.5°	216.7	205.1	183.7	201.8	304.4	364.0	327.6	325.9	205.1	79.4	79.4
75°	91.0	82.8	67.9	61.2	81.1	77.8	77.8	69.5	54.6	52.9	49.6
77.5°	18.2	18.2	13.2	14.9	19.8	23.1	28.1	28.1	33.1	33.1	31.5
80°	0.0	1.7	5.0	9.9	14.9	21.5	24.8	24.8	28.1	28.1	23.1
82.5°	0.0	1.7	5.0	9.9	13.2	19.8	24.8	24.8	28.1	29.8	24.8
85°	0.0	1.7	5.0	8.2	13.2	16.6	16.6	14.9	11.6	9.9	6.6
87.5°	0.0	0.0	1.7	3.3	1.7	3.3	3.3	3.3	3.3	3.3	3.3
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°	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6
2.5°	3204.5	3202.9	3163.1	3098.6	3083.7	3029.1	3022.5	2989.4	3007.6	2946.4	2939.8
5°	3178.0	3158.1	3110.2	3068.8	2948.0	2862.0	2794.2	2711.5	2663.5	2671.8	2640.3
7.5°	3216.1	3164.8	3080.4	2936.4	2789.3	2638.7	2557.6	2388.9	2327.6	2236.7	2223.4
10°	3176.4	3138.3	3007.6	2769.4	2565.9	2349.2	2158.9	1972.0	1829.7	1768.5	1755.3
12.5°	3173.0	3106.9	2888.5	2623.8	2329.3	2018.3	1742.0	1508.8	1368.1	1288.7	1270.6
15°	3121.8	3042.3	2754.5	2398.8	1991.8	1604.7	1303.6	1078.7	971.1	924.8	938.1
17.5°	3126.8	3007.6	2620.5	2160.6	1659.3	1177.9	890.0	774.2	746.1	757.7	757.7
20°	3121.8	2929.9	2458.3	1885.9	1270.6	817.3	653.5	612.1	630.3	666.7	658.4
22.5°	3095.3	2893.5	2309.5	1596.5	934.7	605.5	524.4	526.0	554.2	598.9	608.8
25°	3115.1	2812.4	2120.9	1303.6	681.6	483.1	455.0	466.5	496.3	529.4	536.0
27.5°	3100.3	2754.5	1924.0	1012.5	498.0	415.2	413.6	426.8	440.1	464.9	464.9
30°	3116.8	2701.5	1730.4	752.7	410.2	380.5	373.9	383.8	397.0	402.0	400.3
32.5°	3178.0	2661.8	1507.1	562.5	362.3	347.4	347.4	347.4	345.7	352.4	354.1
35°	3312.0	2668.5	1310.3	435.1	330.8	319.3	314.4	307.7	304.4	307.7	309.4
37.5°	3457.6	2665.1	1106.8	370.5	307.7	297.8	286.2	276.3	274.6	278.0	273.0
40°	3522.1	2696.6	918.2	332.5	286.2	274.6	256.4	248.2	249.8	253.1	249.8
42.5°	3609.8	2706.5	795.8	302.8	266.3	248.2	236.6	226.6	225.0	229.9	228.3
45°	3608.1	2650.2	666.7	286.2	248.2	228.3	213.4	205.1	205.1	208.5	210.1
47.5°	3714.0	2642.0	572.4	271.3	234.9	215.0	196.9	190.2	188.6	188.6	185.3
50°	3960.5	2757.8	499.6	254.7	218.4	200.2	185.3	177.0	170.4	167.1	165.4
52.5°	4441.9	3118.4	443.4	234.9	200.2	185.3	172.1	165.4	157.2	148.9	147.3
54°	4908.5	3490.7	440.1	218.4	185.3	175.3	163.7	160.5	150.5	138.9	135.7
55°	5118.6	3707.4	451.6	205.1	175.3	168.7	158.8	155.5	145.6	132.4	130.7
57.5°	5292.2	3791.7	445.1	170.4	158.8	157.2	148.9	143.9	132.4	114.1	110.8
60°	4259.9	2867.0	319.3	150.5	145.6	142.3	135.7	132.4	117.5	97.6	96.0
62.5°	2691.6	1649.4	203.5	132.4	127.4	122.4	114.1	110.8	97.6	77.8	72.8
65°	1146.5	683.2	137.3	117.5	109.2	100.9	94.3	89.3	77.8	57.9	56.3
67.5°	297.8	243.2	114.1	102.6	91.0	79.4	74.4	66.2	52.9	39.7	38.0
70°	134.0	122.4	96.0	86.0	72.8	61.2	54.6	46.3	34.7	26.5	24.8
72.5°	79.4	77.8	72.8	64.5	54.6	46.3	39.7	31.5	23.1	14.9	14.9
75°	49.6	47.9	49.6	44.7	38.0	34.7	29.8	21.5	13.2	6.6	6.6
77.5°	29.8	29.8	29.8	28.1	26.5	26.5	21.5	13.2	6.6	1.7	1.7
80°	23.1	23.1	24.8	23.1	23.1	23.1	18.2	9.9	3.3	0.0	0.0
82.5°	23.1	24.8	28.1	26.5	23.1	19.8	16.6	9.9	3.3	0.0	0.0
85°	6.6	5.0	8.2	11.6	16.6	14.9	11.6	8.2	3.3	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	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)