

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: P652278

Luminaire Tested: **GALN-SA3B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652278
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-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 8354.5 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

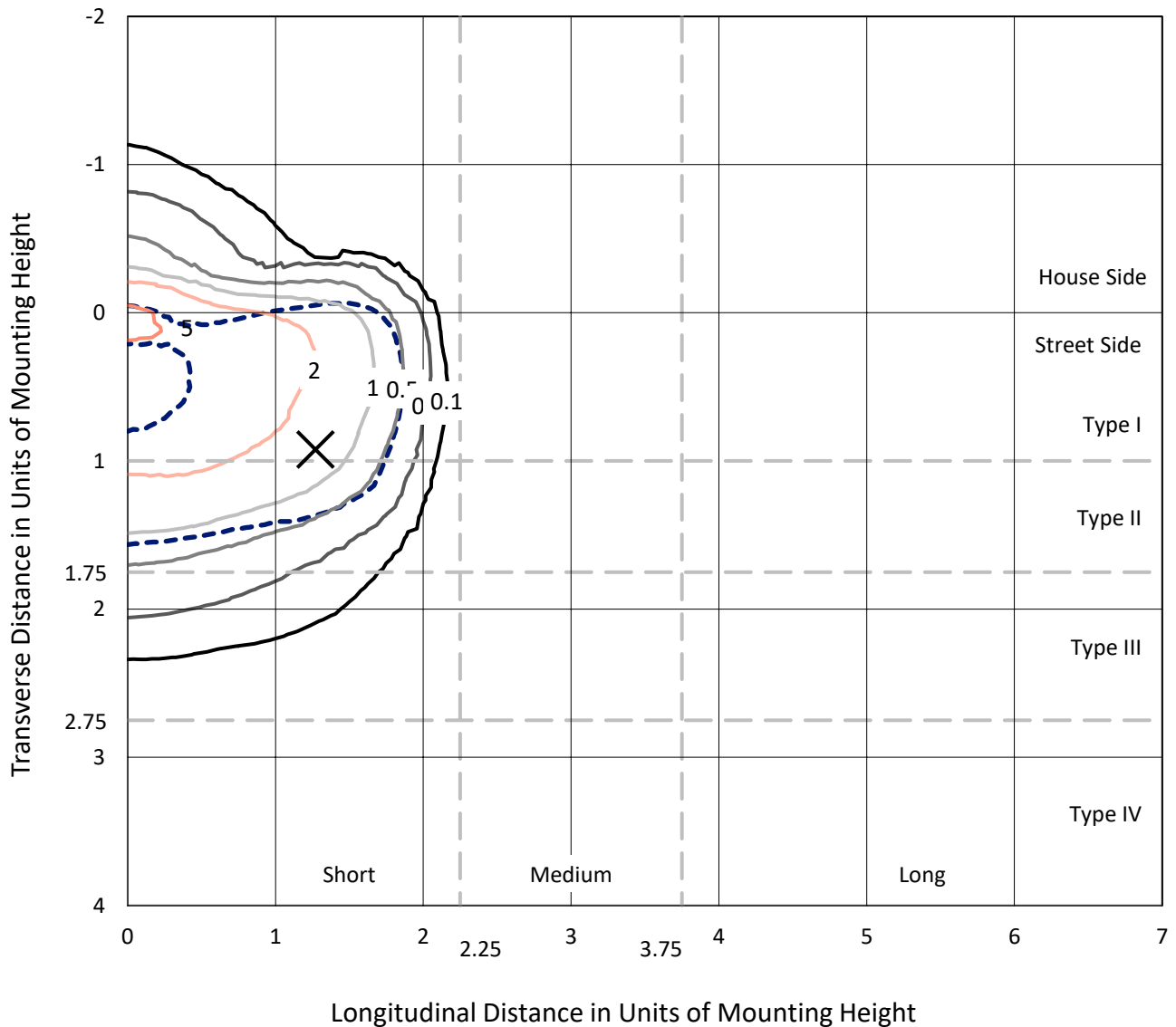
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

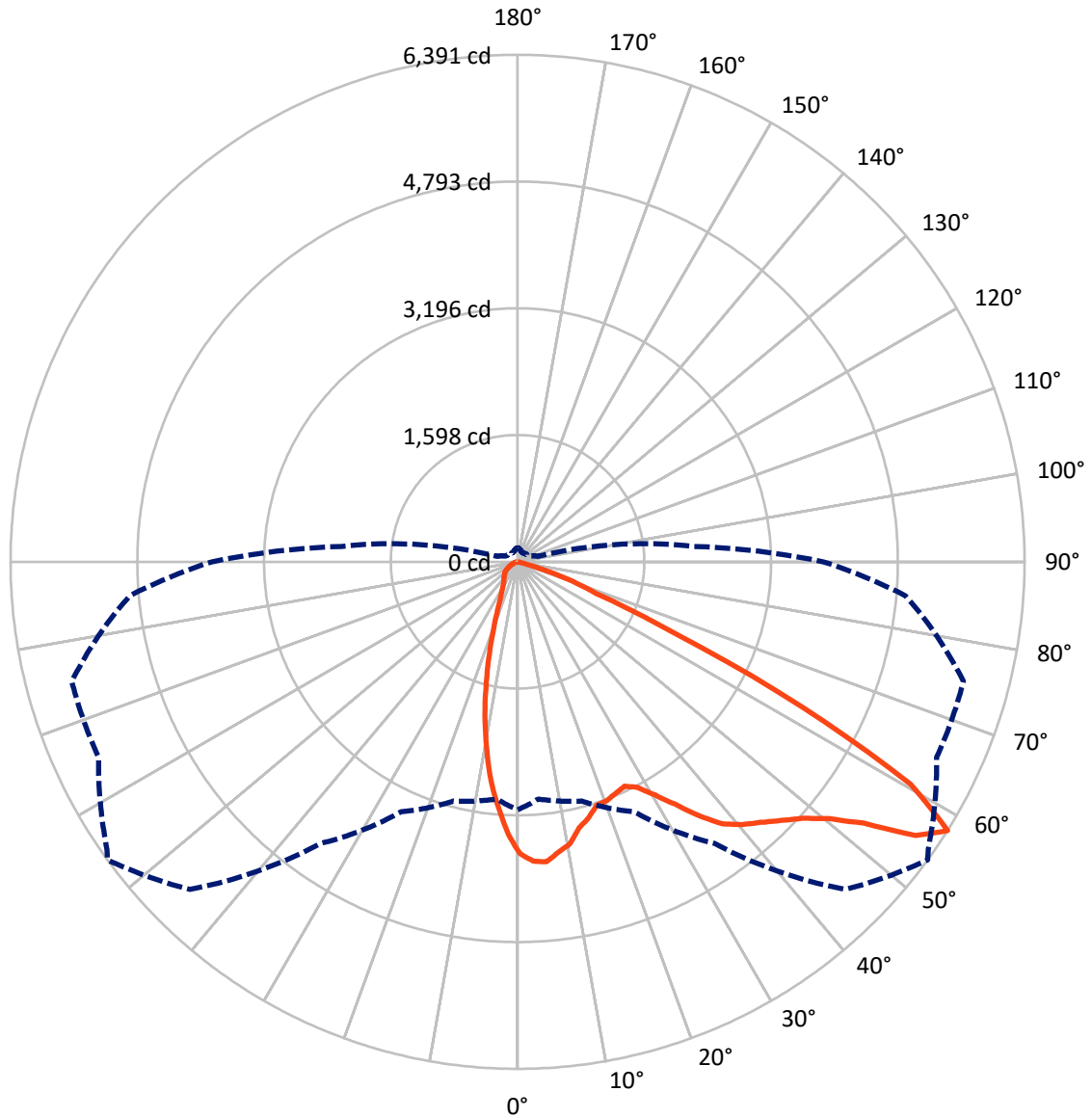
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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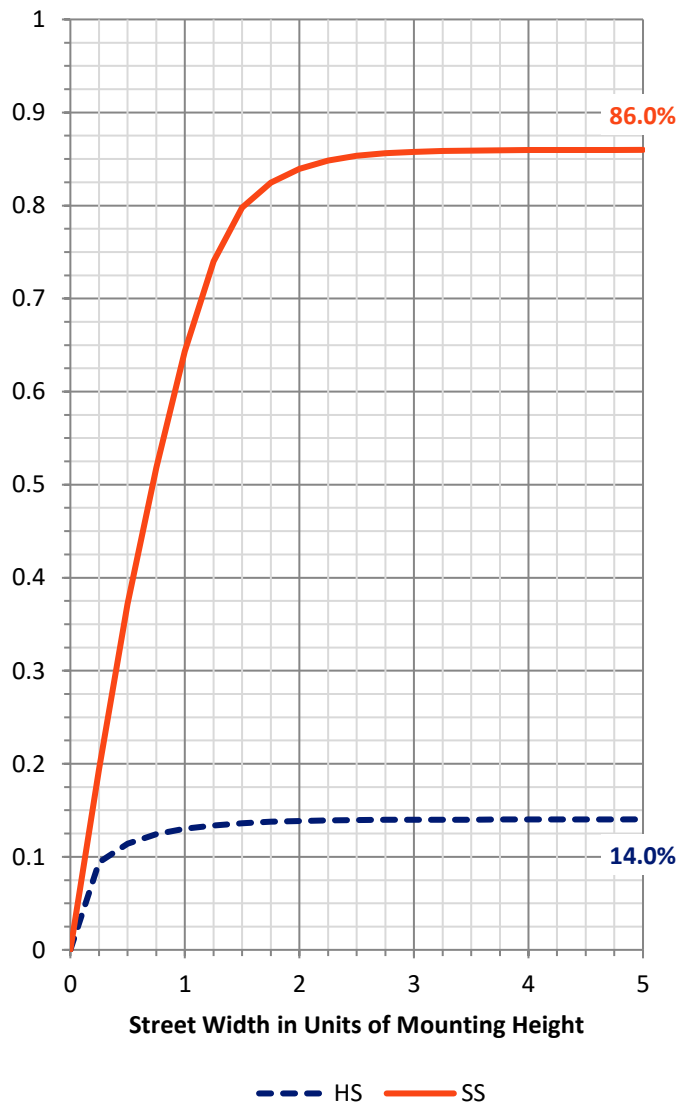
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.6	0.0	1180.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7173.9	0.0	7173.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	8354.5	0.0	8354.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.0	3.7
10°-20°	657.5	7.9
20°-30°	871.3	10.4
30°-40°	1266.3	15.2
40°-50°	1877.7	22.5
50°-60°	2348.0	28.1
60°-70°	926.2	11.1
70°-80°	92.2	1.1
80°-90°	7.2	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°	8354.5	100.0
0°-180°	8354.5	100.0

Coefficient of Utilization



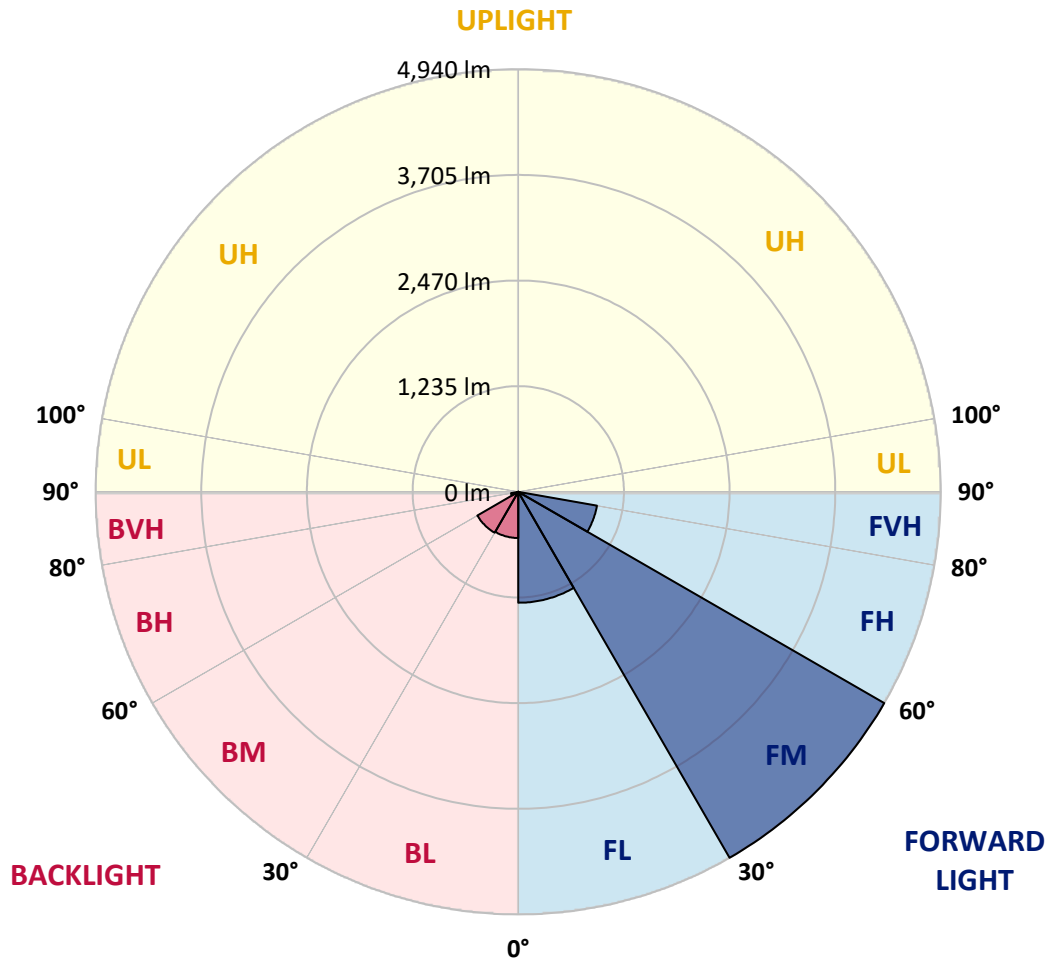
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.9	15.5			
FM (30°-60°)	4940.0	59.1			
FH (60°-80°)	933.8	11.2			G1/1800
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	540.0	6.5	B2/1000		
BM (30°-60°)	552.1	6.6	B1/1000		
BH (60°-80°)	84.7	1.0	B0/110		G0/110
BVH (80°-90°)	3.9	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°	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3
2.5°	3894.7	3854.2	3857.3	3843.4	3824.8	3838.7	3778.1	3792.2	3790.6	3708.2	3653.9
5°	3796.8	3840.3	3795.3	3832.5	3796.8	3835.6	3798.3	3770.4	3725.3	3664.7	3563.7
7.5°	3630.5	3588.6	3601.1	3647.7	3655.4	3742.4	3695.8	3731.5	3712.9	3593.3	3455.0
10°	3296.6	3287.2	3349.4	3411.5	3487.6	3580.8	3616.6	3596.4	3582.4	3537.3	3352.5
12.5°	3040.2	3066.6	3065.1	3167.6	3296.6	3349.4	3442.5	3439.4	3517.1	3433.3	3256.2
15°	2796.3	2810.3	2875.5	2939.2	3082.2	3232.9	3347.9	3363.3	3456.6	3397.6	3181.6
17.5°	2647.2	2626.9	2678.2	2754.4	2900.4	3097.7	3225.1	3262.4	3389.7	3377.4	3096.1
20°	2499.6	2499.6	2541.5	2631.7	2765.2	2987.4	3214.2	3203.4	3389.7	3354.0	3004.5
22.5°	2449.9	2474.7	2485.6	2553.9	2712.4	2903.6	3167.6	3187.8	3416.1	3343.1	2964.1
25°	2518.2	2485.6	2488.7	2543.1	2692.2	2863.1	3133.4	3178.5	3464.3	3397.6	2931.5
27.5°	2529.1	2561.8	2571.0	2608.4	2707.8	2875.5	3218.8	3310.5	3583.9	3524.9	2940.8
30°	2623.9	2656.5	2655.0	2718.6	2787.0	2976.6	3409.9	3428.6	3830.9	3684.9	2998.2
32.5°	2738.8	2773.0	2783.9	2858.5	2912.8	3161.4	3643.0	3691.1	4068.7	3936.6	3149.0
35°	2881.8	2869.3	2919.0	2993.6	3110.1	3431.7	3927.3	4008.0	4325.0	4262.9	3304.3
37.5°	3060.4	3044.8	3093.0	3214.2	3372.7	3751.7	4189.8	4242.7	4511.4	4565.8	3591.7
40°	3186.2	3192.4	3338.5	3501.6	3669.4	4056.2	4356.0	4407.3	4641.9	4848.5	3809.2
42.5°	3396.0	3434.8	3610.3	3809.2	3984.7	4284.6	4491.2	4540.9	4702.5	5075.4	4102.8
45°	3700.5	3683.4	3877.6	4099.7	4293.9	4522.3	4651.2	4634.2	4738.2	5300.6	4287.7
47.5°	4092.0	4095.1	4224.0	4413.5	4615.5	4728.9	4829.9	4769.3	4812.8	5538.2	4534.7
50°	4359.2	4382.5	4486.6	4680.8	4781.7	4955.7	5084.6	5047.3	5033.4	5681.2	4690.1
52.5°	4427.5	4497.4	4553.3	4795.7	5031.8	5306.8	5471.5	5550.7	5302.2	5729.3	4887.3
55°	3911.7	3973.9	4171.2	4503.6	5126.6	5862.9	6089.8	6091.3	5653.2	5943.8	5025.6
57.5°	3127.3	3001.4	3122.5	3475.2	4334.3	5839.7	6391.2	6318.1	5828.8	5817.9	4906.0
60°	2162.5	2131.4	2139.2	2279.0	2999.8	4645.0	5695.2	5789.9	5367.3	5042.7	3883.7
62.5°	1713.5	1687.1	1652.9	1637.4	1862.6	2894.2	4017.4	4151.0	3753.3	3270.1	2302.3
65°	1342.2	1326.7	1331.4	1393.5	1391.9	1642.1	2196.7	2142.3	1715.1	1267.6	723.9
67.5°	905.7	929.0	947.6	1135.6	1231.9	1143.4	1061.1	1030.0	557.8	234.6	160.0
70°	509.6	512.7	532.9	710.0	935.2	887.1	731.7	731.7	278.1	85.4	91.7
72.5°	278.1	268.8	250.1	306.0	416.4	422.5	326.2	284.3	82.3	55.9	51.3
75°	135.1	133.6	115.0	94.8	90.1	74.6	57.4	52.8	37.3	35.7	31.0
77.5°	27.9	26.4	14.0	14.0	15.6	17.1	21.8	21.8	26.4	26.4	21.8
80°	0.0	0.0	1.5	6.2	10.8	15.6	18.7	18.7	21.8	21.8	17.1
82.5°	0.0	0.0	1.5	4.6	9.3	14.0	17.1	18.7	21.8	23.3	18.7
85°	0.0	0.0	0.0	3.1	7.7	10.8	9.3	9.3	7.7	6.2	3.1
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°	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3	3680.3
2.5°	3625.9	3622.8	3551.3	3510.9	3437.9	3374.3	3323.0	3285.7	3285.7	3262.4	3240.6
5°	3523.4	3497.0	3344.7	3246.8	3108.6	3006.1	2936.1	2881.8	2796.3	2819.6	2728.0
7.5°	3396.0	3329.2	3127.3	2978.1	2787.0	2641.0	2491.8	2359.8	2232.4	2174.9	2206.0
10°	3259.3	3142.7	2870.9	2634.8	2397.1	2129.8	1955.8	1744.6	1614.1	1606.3	1572.2
12.5°	3114.8	2982.8	2651.8	2325.6	2013.4	1691.8	1426.1	1228.8	1140.3	1042.4	1061.1
15°	3006.1	2810.3	2408.0	2014.9	1600.1	1275.5	1008.2	856.0	772.1	748.8	741.0
17.5°	2888.0	2678.2	2159.4	1684.0	1255.3	918.1	725.5	652.4	619.8	619.8	615.2
20°	2765.2	2529.1	1912.3	1376.4	941.4	685.1	581.0	557.8	556.2	554.6	554.6
22.5°	2684.5	2358.2	1688.6	1093.6	710.0	548.4	504.9	495.6	501.8	520.4	520.4
25°	2599.0	2193.6	1441.6	843.5	549.9	470.7	445.9	452.0	467.6	484.7	478.4
27.5°	2512.1	2086.4	1208.6	661.8	450.5	411.7	402.3	416.4	433.5	448.9	444.3
30°	2491.8	1971.4	988.0	501.8	386.9	358.9	365.1	377.5	394.6	400.8	407.0
32.5°	2522.9	1881.3	809.4	411.7	337.1	329.3	329.3	335.6	346.4	360.5	355.7
35°	2611.5	1830.0	640.1	357.3	309.2	301.4	299.8	306.0	312.3	316.9	312.3
37.5°	2746.6	1789.6	523.5	316.9	290.5	278.1	275.0	273.4	279.6	281.1	284.3
40°	2919.0	1811.4	444.3	292.1	271.9	257.9	248.6	248.6	248.6	253.2	254.7
42.5°	3105.5	1840.9	383.7	278.1	254.7	237.7	228.3	225.2	228.3	234.6	233.0
45°	3301.2	1898.4	344.9	256.3	239.3	217.5	205.0	201.9	209.7	222.2	220.6
47.5°	3484.5	1980.7	315.4	242.4	223.7	203.5	188.0	184.9	198.8	216.0	217.5
50°	3667.9	2123.6	304.5	231.4	212.9	189.6	175.5	172.4	188.0	209.7	214.4
52.5°	3879.1	2277.4	296.7	217.5	200.4	178.6	163.2	160.0	177.1	205.0	206.6
55°	4017.4	2408.0	290.5	192.7	177.1	161.6	149.1	147.6	166.3	191.1	197.3
57.5°	3855.8	2226.2	268.8	167.8	150.7	142.9	132.0	132.0	147.6	170.9	175.5
60°	2923.7	1464.9	191.1	135.1	127.4	122.7	118.1	118.1	130.5	147.6	149.1
62.5°	1711.9	789.2	122.7	108.7	108.7	104.1	96.3	96.3	108.7	118.1	119.6
65°	508.0	253.2	99.4	93.2	91.7	83.8	76.1	74.6	83.8	88.6	87.0
67.5°	146.0	116.5	82.3	77.7	76.1	63.7	59.0	57.4	59.0	55.9	54.4
70°	87.0	79.2	63.7	65.3	57.4	46.6	42.0	40.4	37.3	32.6	29.5
72.5°	48.2	48.2	46.6	49.7	40.4	31.0	26.4	21.8	17.1	14.0	12.4
75°	29.5	31.0	32.6	34.1	26.4	20.2	17.1	10.8	6.2	3.1	3.1
77.5°	20.2	21.8	23.3	24.9	21.8	18.7	14.0	7.7	1.5	0.0	0.0
80°	15.6	17.1	20.2	21.8	23.3	24.9	18.7	7.7	1.5	0.0	0.0
82.5°	17.1	18.7	23.3	21.8	21.8	21.8	17.1	7.7	1.5	0.0	0.0
85°	3.1	4.6	7.7	7.7	10.8	14.0	10.8	3.1	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)