

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: P648456

Luminaire Tested: **GALN-SA5B-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17468.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

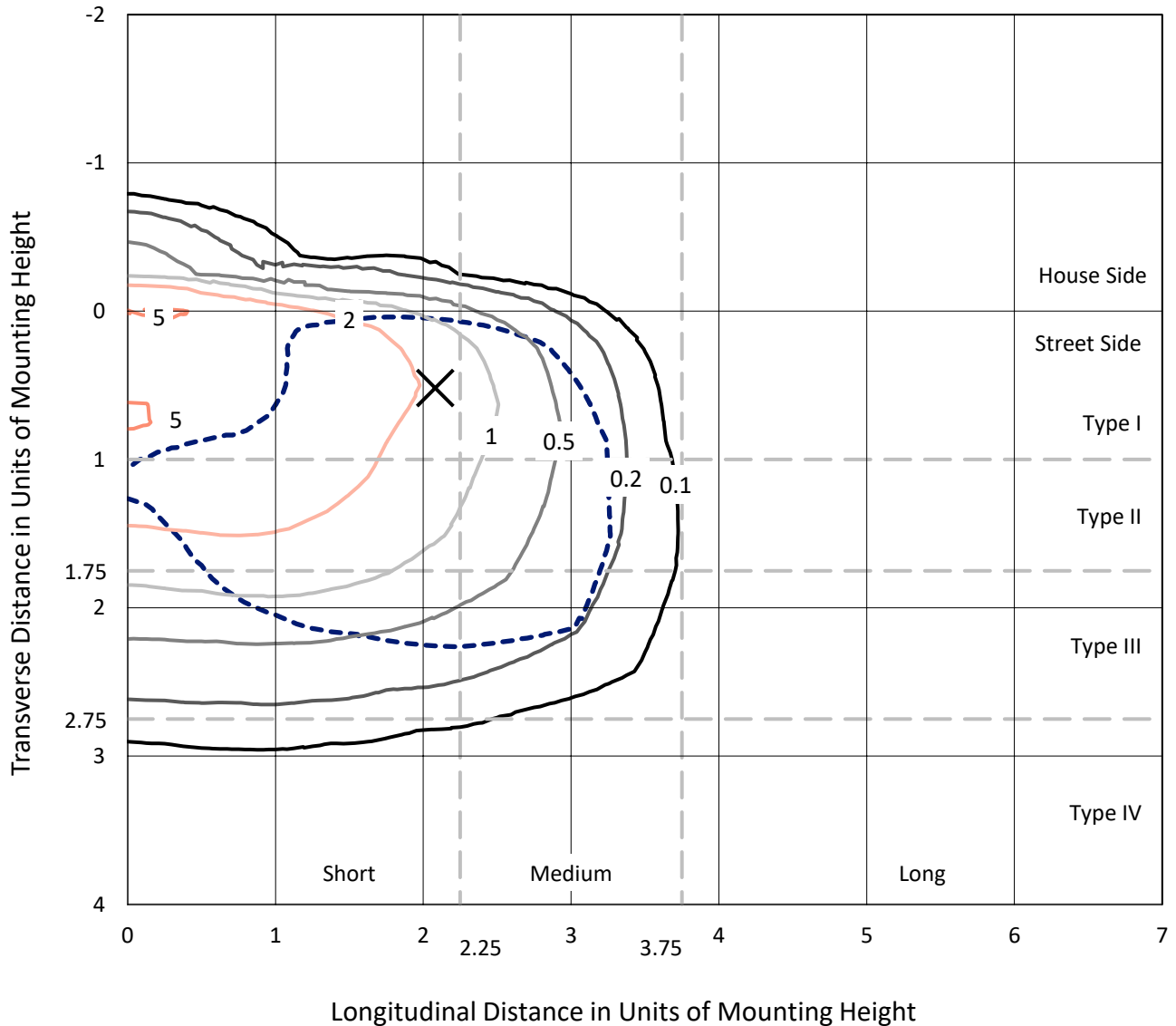
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

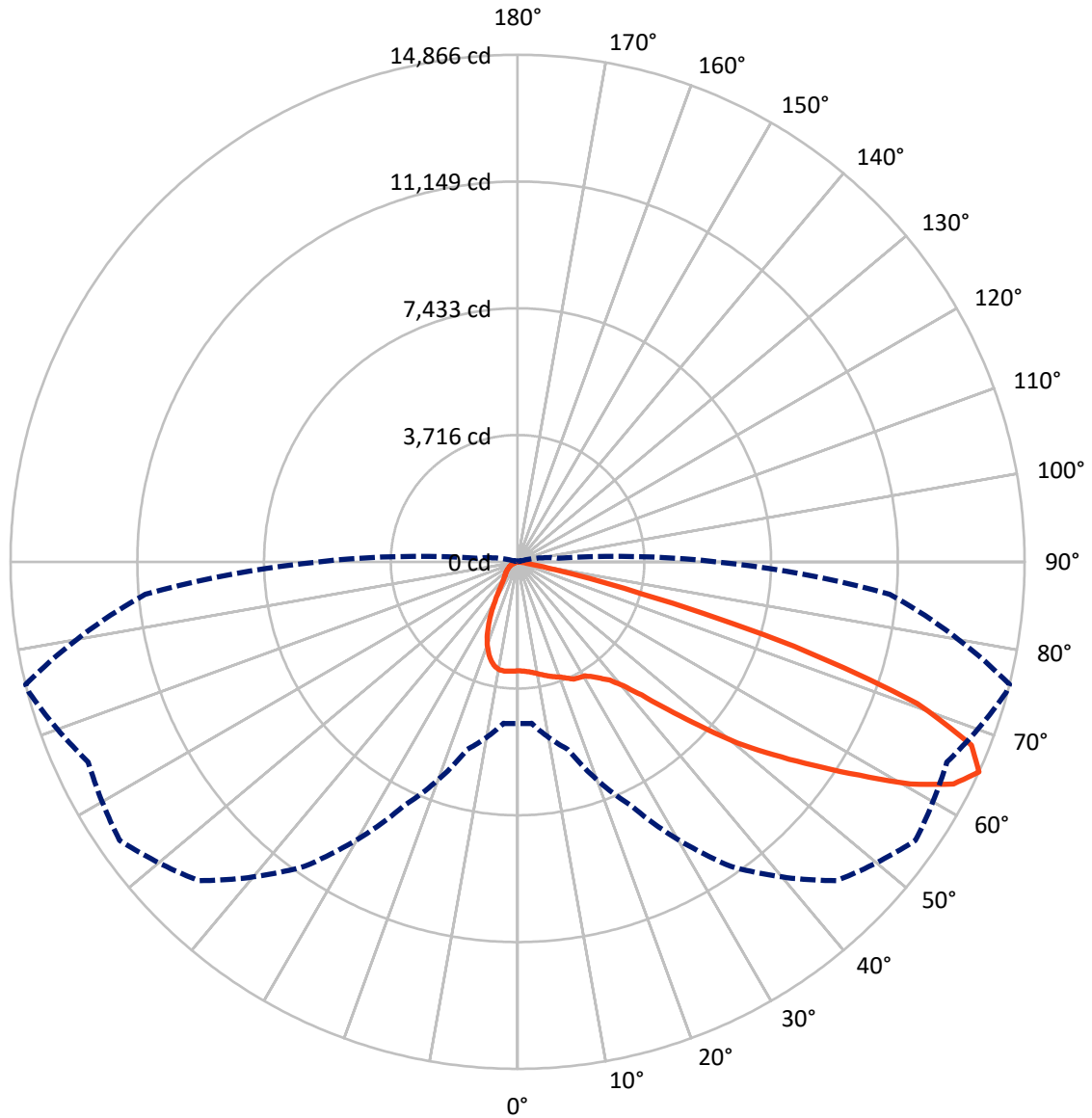
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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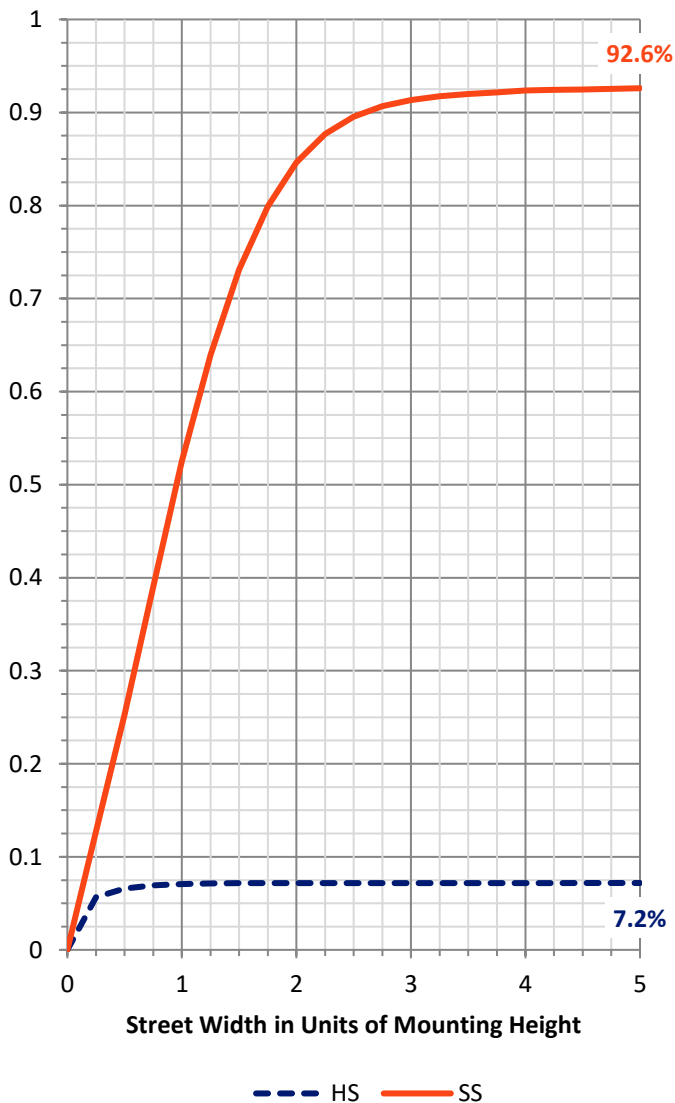
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1261.6	0.0	1261.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16207.1	0.0	16207.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	17468.7	0.0	17468.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	1.5
10°-20°	586.1	3.4
20°-30°	944.5	5.4
30°-40°	1642.2	9.4
40°-50°	2713.7	15.5
50°-60°	4192.1	24.0
60°-70°	5119.2	29.3
70°-80°	1942.9	11.1
80°-90°	64.8	0.4
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°	17468.7	100.0
0°-180°	17468.7	100.0

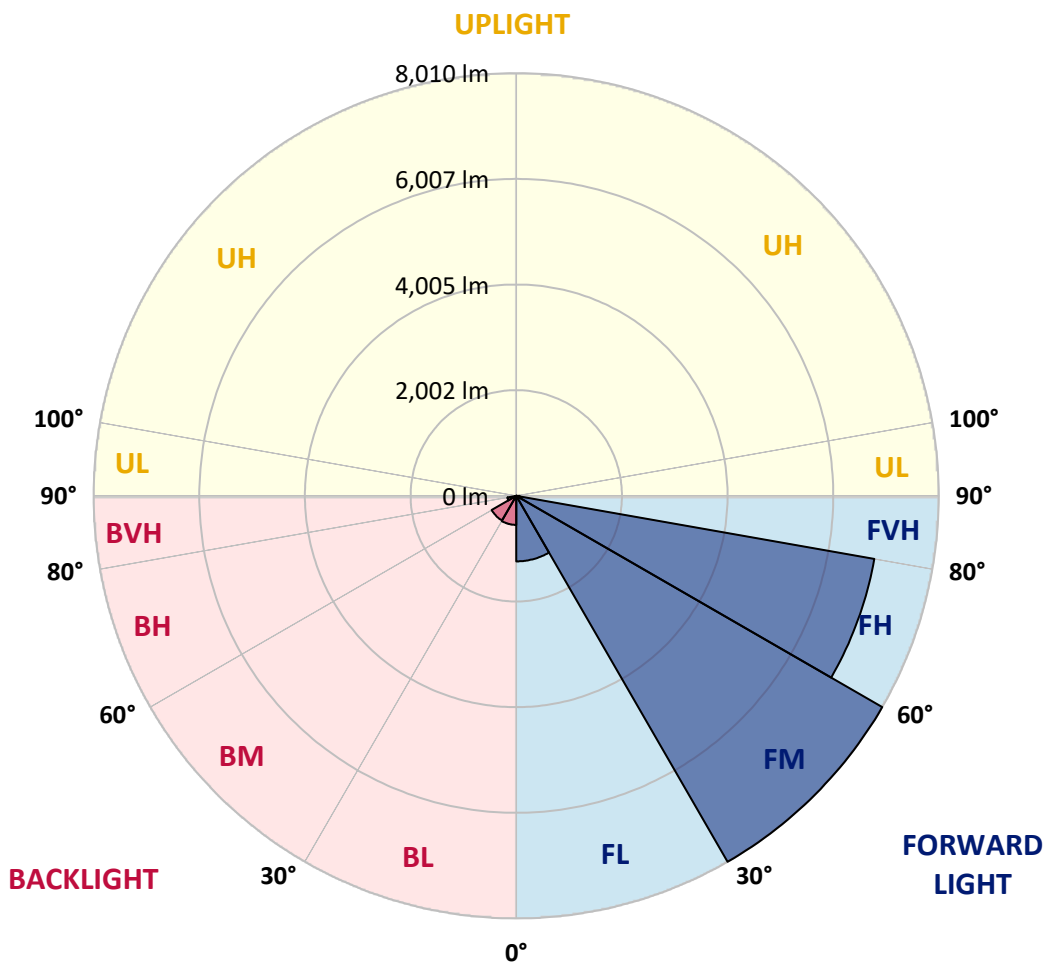


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.7	7.1			
FM (30°-60°)	8009.7	45.9			
FH (60°-80°)	6890.8	39.4			G3/7500
FVH (80°-90°)	63.9	0.4			G1/100
BL (0°-30°)	551.2	3.2	B2/1000		
BM (30°-60°)	538.4	3.1	B1/1000		
BH (60°-80°)	171.2	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6
2.5°	3053.8	3055.0	3062.4	3080.9	3109.3	3132.7	3152.4	3184.5	3206.7	3209.1	3216.6
5°	2842.8	2828.0	2842.8	2890.9	2934.1	2999.5	3079.6	3159.8	3231.4	3236.3	3270.8
7.5°	2606.1	2618.4	2641.8	2691.2	2772.5	2872.4	2988.4	3131.5	3267.1	3279.4	3347.3
10°	2365.5	2392.7	2430.9	2506.1	2619.6	2749.1	2907.0	3111.7	3323.8	3341.1	3458.3
12.5°	2143.5	2155.9	2202.7	2303.9	2444.4	2627.0	2845.3	3100.6	3386.8	3407.7	3576.7
15°	1973.3	1989.4	2030.1	2121.4	2278.0	2512.3	2794.8	3096.9	3448.4	3478.0	3695.1
17.5°	1941.3	1951.2	1968.4	2030.1	2167.0	2421.0	2749.1	3095.7	3507.6	3543.4	3804.8
20°	2073.2	2064.6	2047.3	2041.2	2116.4	2350.7	2715.8	3105.5	3564.4	3605.1	3920.8
22.5°	2403.8	2414.9	2313.8	2194.1	2169.5	2339.7	2710.9	3152.4	3654.4	3702.5	4050.3
25°	3105.5	3020.4	2862.6	2576.5	2360.6	2407.5	2766.4	3263.4	3759.3	3812.3	4167.4
27.5°	3881.3	3855.4	3610.0	3138.9	2736.8	2550.5	2865.1	3348.5	3793.8	3848.1	4234.1
30°	4643.5	4674.4	4393.2	3872.7	3283.1	2815.7	2957.5	3380.6	3824.6	3881.3	4319.2
32.5°	5350.2	5387.3	5140.6	4625.0	3927.0	3274.5	3116.7	3505.2	3954.1	4012.1	4461.0
35°	5906.5	5911.4	5725.1	5314.5	4630.0	3832.0	3460.8	3723.5	4129.2	4197.0	4611.5
37.5°	6417.1	6409.6	6191.3	5837.4	5215.8	4385.7	3893.6	3975.1	4329.1	4399.4	4828.5
40°	6795.7	6800.7	6730.4	6397.3	5762.2	4897.6	4236.5	4210.7	4664.5	4774.3	5144.2
42.5°	7048.6	7094.2	7128.7	6959.8	6449.2	5527.8	4763.1	4715.1	5246.6	5337.9	5590.8
45°	7253.3	7334.7	7507.3	7498.7	7109.0	6301.1	5485.9	5387.3	6071.8	6169.2	6159.3
47.5°	7402.5	7485.2	7771.3	7943.9	7729.4	7051.0	6394.8	6309.8	7057.2	7163.3	6787.0
50°	7479.0	7577.6	7942.8	8276.9	8214.1	7773.8	7430.9	7435.8	8247.3	8349.8	7514.8
52.5°	7300.1	7428.4	8034.0	8635.9	8757.9	8465.6	8401.5	8564.3	9306.8	9394.4	8172.1
55°	6729.1	6890.7	7909.4	8941.7	9388.2	9282.2	9504.1	9752.0	10464.9	10521.6	8846.7
57.5°	6367.7	6539.1	7541.9	9202.0	10145.5	10308.3	10659.8	10841.1	11660.0	11804.4	9621.3
60°	6063.1	6197.5	7239.7	9257.5	10915.1	11563.8	11905.4	12092.9	13135.1	13228.8	10473.6
62.5°	5556.2	5710.3	6729.1	8870.2	11302.4	12569.0	13276.9	13193.1	14275.9	14341.3	10996.5
65°	4741.0	4754.5	5693.1	7897.1	10902.7	13221.4	14240.2	13888.7	14821.1	14865.5	10955.7
67.5°	3538.5	3669.2	4379.6	6207.4	9209.3	12663.9	14552.2	13907.2	14477.0	14353.6	10086.3
70°	2279.2	2379.1	2968.7	4304.4	6640.3	10568.5	13517.4	12953.8	12705.9	12432.1	8256.0
72.5°	1052.0	1180.3	1763.7	2459.2	3938.1	7528.3	10973.0	10524.1	9145.2	8469.3	5247.9
75°	458.8	490.9	870.8	1297.5	1846.3	3981.2	7234.8	6533.0	4130.5	3772.8	2100.4
77.5°	280.0	300.9	456.3	695.6	725.2	1517.0	3897.4	2850.3	1276.5	1126.0	569.8
80°	190.0	213.4	331.8	363.9	247.9	423.1	1462.7	761.0	257.8	246.6	122.1
82.5°	92.5	117.1	245.5	203.5	107.3	135.7	425.5	162.8	75.2	70.3	43.1
85°	13.5	23.4	138.1	133.2	48.1	32.1	75.2	40.7	25.9	24.7	19.7
87.5°	0.0	0.0	46.9	21.0	4.9	4.9	8.6	8.6	9.9	8.6	9.9
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°	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6	3195.6
2.5°	3220.2	3226.4	3203.0	3169.7	3134.0	3098.2	3047.6	3001.9	2974.9	2990.8	2951.4
5°	3278.2	3273.3	3211.6	3110.5	2976.0	2814.5	2654.1	2517.3	2472.9	2406.2	2398.9
7.5°	3358.4	3344.8	3214.1	2982.2	2678.8	2375.4	2079.4	1883.3	1771.1	1676.1	1678.6
10°	3470.6	3431.2	3185.7	2756.6	2257.0	1799.4	1422.0	1163.1	1050.8	1015.0	986.7
12.5°	3586.5	3510.1	3106.8	2451.9	1757.5	1229.6	864.6	706.7	637.7	615.4	612.9
15°	3690.1	3569.3	2968.7	2085.6	1277.8	785.7	589.5	537.8	529.1	530.3	529.1
17.5°	3792.5	3616.1	2777.5	1697.1	868.3	563.6	506.9	494.5	498.3	503.2	502.0
20°	3877.7	3626.0	2533.3	1295.0	614.2	494.5	476.1	473.6	477.3	481.0	481.0
22.5°	3970.1	3633.4	2243.5	896.6	502.0	460.0	450.1	450.1	455.1	460.0	461.3
25°	4039.2	3592.7	1896.9	643.8	442.8	426.7	421.8	423.1	428.0	430.4	429.2
27.5°	4050.3	3478.0	1529.4	493.4	402.1	386.0	381.1	386.0	379.8	383.6	381.1
30°	4060.2	3332.5	1156.9	415.6	365.0	340.4	333.0	325.6	320.6	314.5	313.3
32.5°	4091.0	3161.0	844.9	373.7	330.5	303.4	286.1	265.2	249.2	244.2	243.0
35°	4104.6	2955.1	620.4	340.4	299.7	270.1	239.3	209.7	186.2	177.6	183.8
37.5°	4156.4	2755.3	481.0	315.7	272.6	235.6	196.1	159.1	136.9	131.9	134.4
40°	4262.4	2538.3	403.3	294.8	249.2	203.5	155.4	119.6	104.8	99.9	98.7
42.5°	4432.6	2322.4	358.9	275.1	225.7	171.4	122.1	93.7	81.4	77.7	77.7
45°	4639.8	2115.2	328.1	254.1	201.0	138.1	96.2	75.2	67.8	65.4	65.4
47.5°	4912.4	1933.9	302.2	233.1	173.9	109.8	77.7	65.4	60.4	61.7	62.9
50°	5188.7	1799.4	273.8	209.7	143.1	90.0	66.6	57.9	56.8	57.9	57.9
52.5°	5397.1	1720.5	235.6	177.6	112.2	75.2	59.2	54.3	53.0	50.6	50.6
55°	5678.3	1703.3	187.5	144.3	88.8	62.9	53.0	49.3	45.6	43.1	42.0
57.5°	6039.7	1723.0	144.3	112.2	69.1	51.8	46.9	40.7	35.8	30.9	30.9
60°	6264.2	1678.6	112.2	86.4	50.6	42.0	35.8	29.6	23.4	19.7	18.5
62.5°	6192.6	1491.1	88.8	64.1	35.8	30.9	23.4	19.7	13.5	9.9	8.6
65°	5823.9	1203.7	71.6	44.4	25.9	18.5	12.4	12.4	6.2	1.3	0.0
67.5°	5097.4	891.7	56.8	29.6	14.8	8.6	6.2	3.7	0.0	0.0	0.0
70°	4149.0	643.8	44.4	18.5	8.6	6.2	2.5	1.3	0.0	0.0	0.0
72.5°	2634.4	368.8	34.5	11.1	6.2	2.5	0.0	0.0	0.0	0.0	0.0
75°	1018.8	144.3	23.4	7.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	288.6	67.8	13.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.2	29.6	7.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	4.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	1.3	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)