

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: P647463

Luminaire Tested: **GALN-SA5D-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22270.9 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

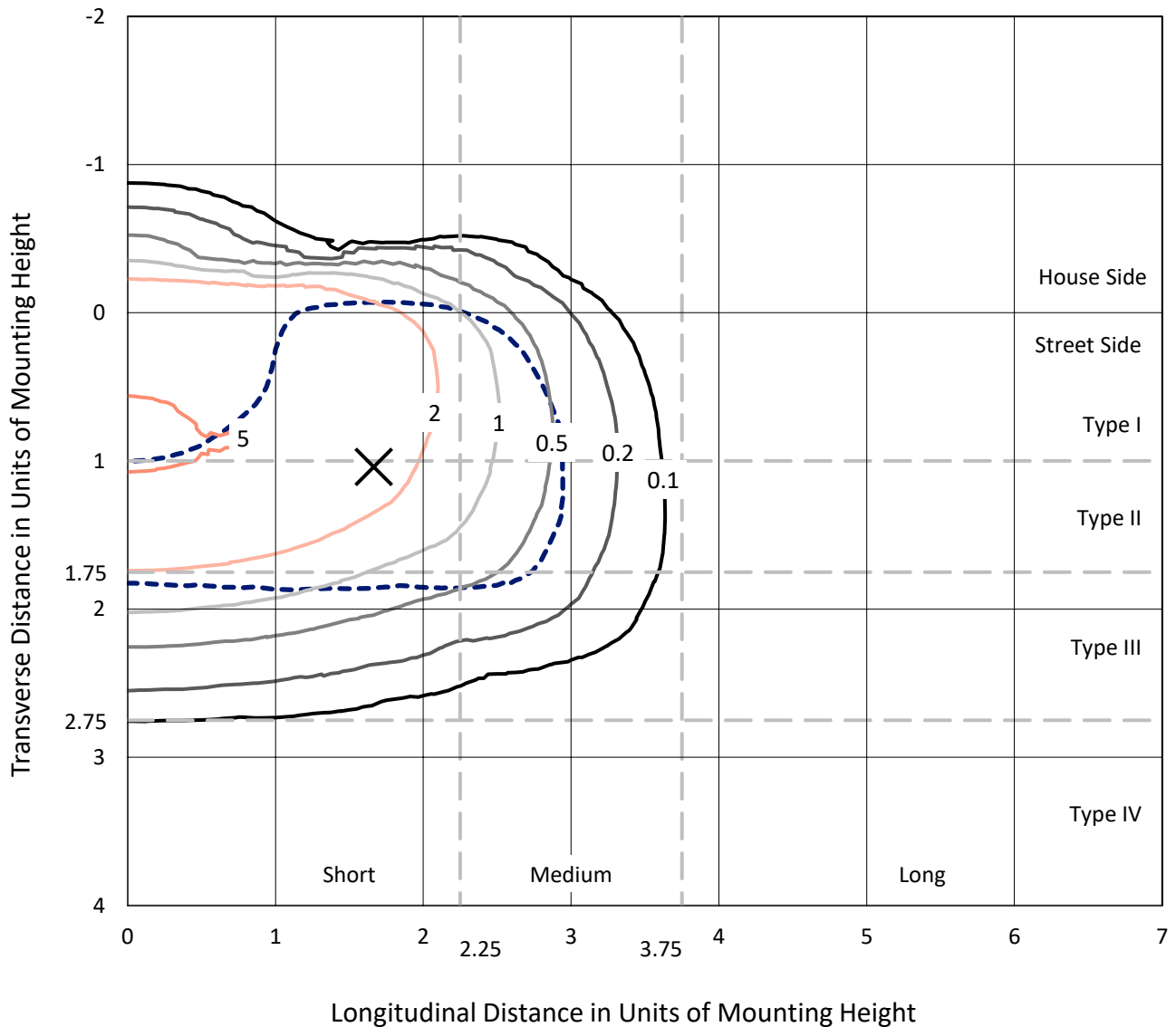
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

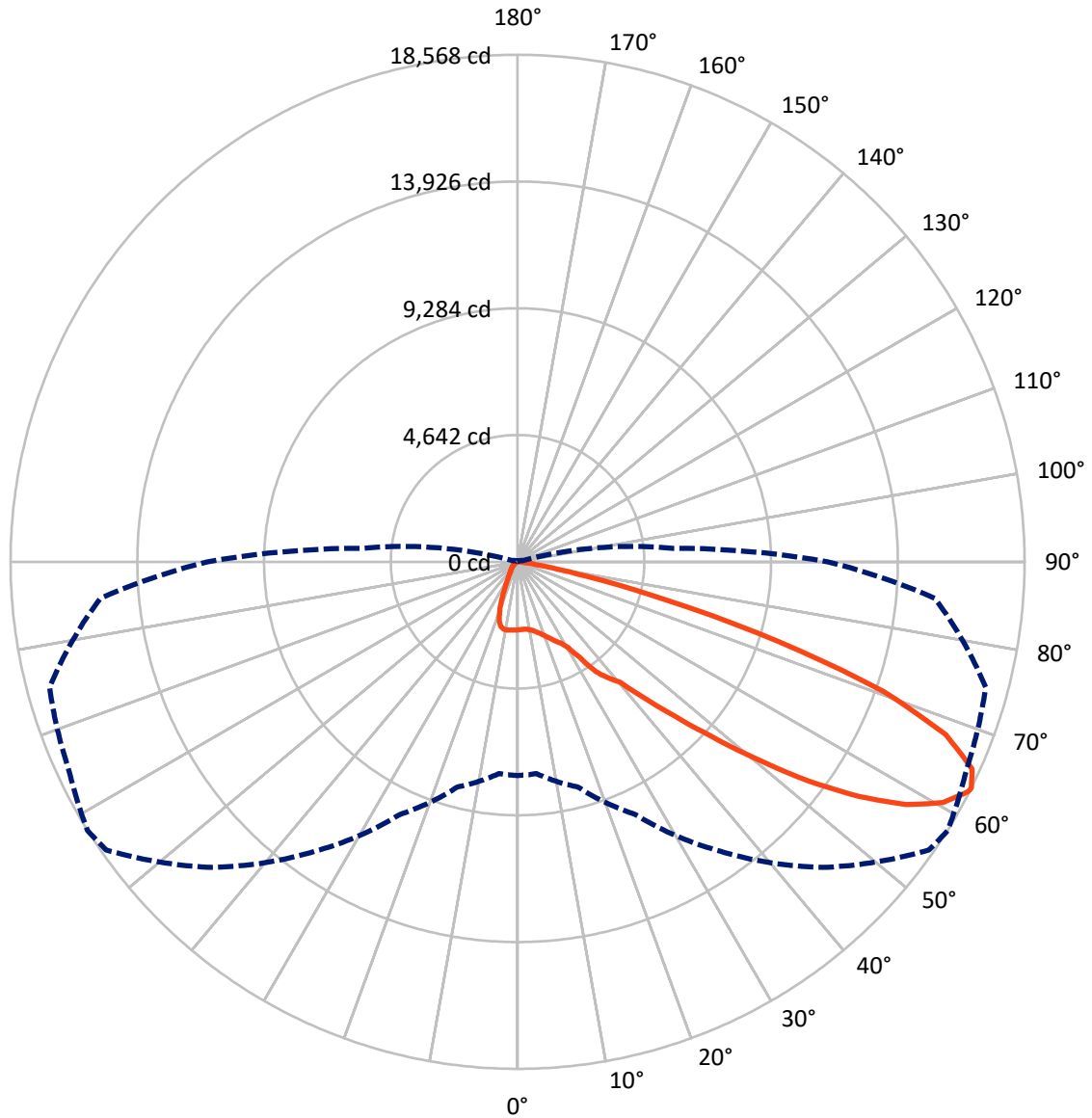
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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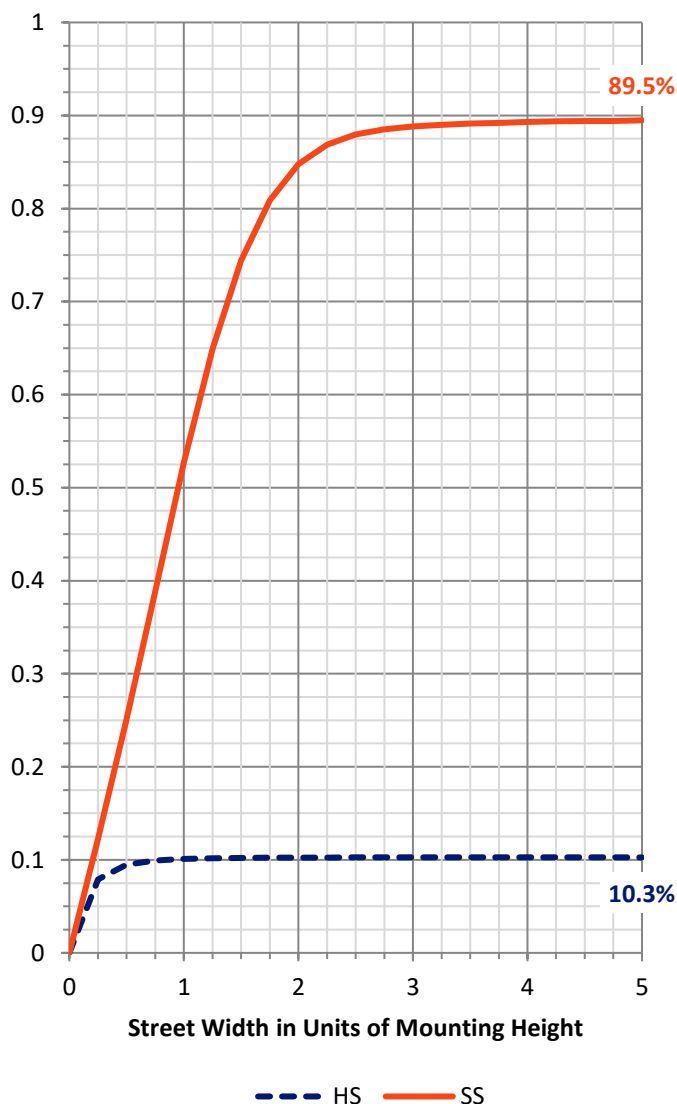
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2306.0	0.0	2306.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19964.9	0.0	19964.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	22270.9	0.0	22270.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	1.0
10°-20°	635.7	2.9
20°-30°	1103.3	5.0
30°-40°	2027.5	9.1
40°-50°	3816.7	17.1
50°-60°	6528.1	29.3
60°-70°	6250.7	28.1
70°-80°	1593.9	7.2
80°-90°	81.5	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°	22270.9	100.0
0°-180°	22270.9	100.0

Coefficient of Utilization



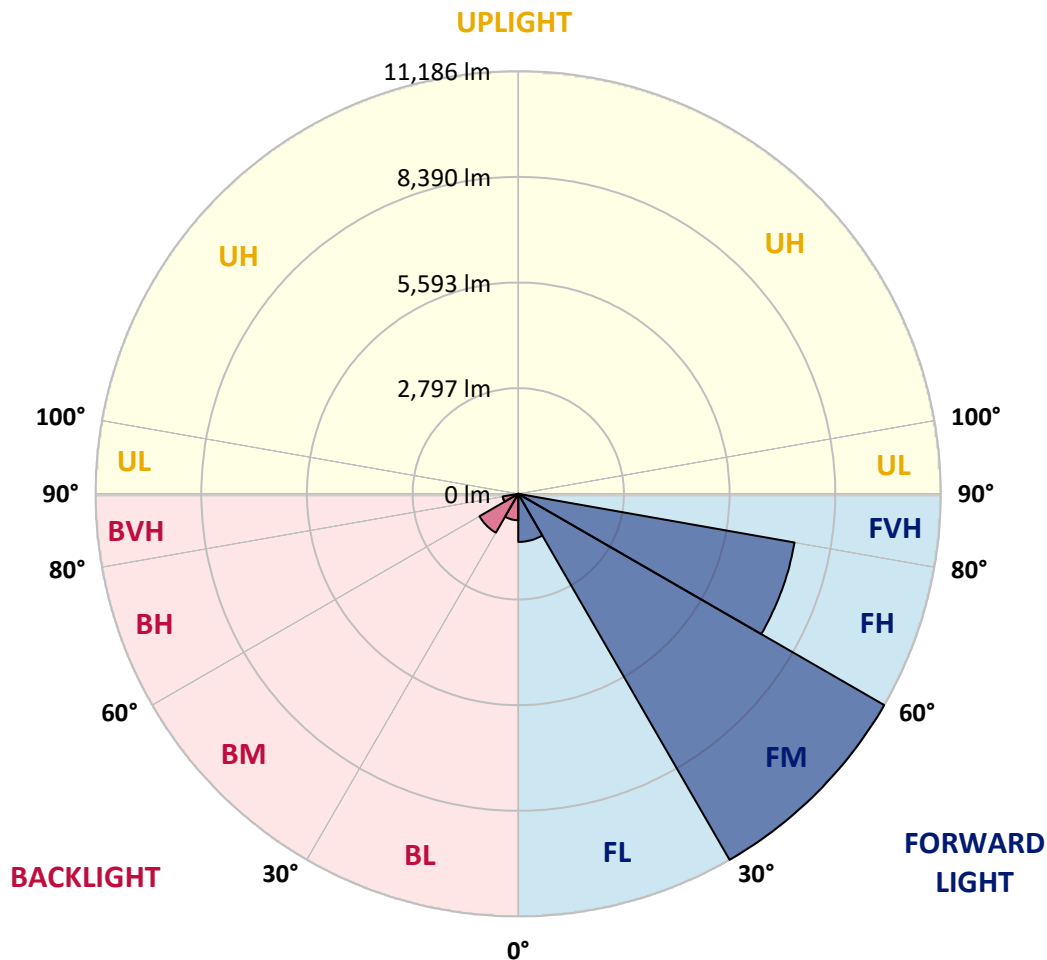
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.1	5.7			
FM (30°-60°)	11186.2	50.2			
FH (60°-80°)	7427.2	33.3			G3/7500
FVH (80°-90°)	78.3	0.4			G1/100
BL (0°-30°)	699.3	3.1	B2/1000		
BM (30°-60°)	1186.1	5.3	B2/2500		
BH (60°-80°)	417.4	1.9	B1/500		G1/500
BVH (80°-90°)	3.2	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°	58°	65°	75°	85°
0°	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3
2.5°	2431.3	2439.7	2448.0	2451.4	2463.2	2474.8	2483.3	2481.6	2495.0	2501.7	2501.7
5°	2334.0	2334.0	2355.8	2375.9	2409.4	2443.0	2474.8	2481.6	2506.7	2530.2	2538.6
7.5°	2251.8	2256.9	2273.7	2310.6	2355.8	2414.5	2478.2	2493.3	2536.9	2588.9	2610.7
10°	2213.3	2216.7	2238.4	2277.0	2334.0	2414.5	2503.4	2531.9	2598.9	2681.1	2711.3
12.5°	2204.9	2209.9	2231.7	2275.3	2340.7	2437.9	2558.7	2588.9	2686.2	2791.8	2837.0
15°	2220.0	2223.3	2245.2	2292.1	2364.2	2479.9	2632.4	2674.4	2790.1	2912.5	2971.2
17.5°	2273.7	2270.3	2285.4	2323.9	2404.4	2531.9	2721.3	2771.7	2907.4	3075.2	3113.7
20°	2501.7	2479.9	2466.5	2432.9	2464.8	2605.7	2828.7	2902.4	3070.1	3241.2	3267.9
22.5°	2992.9	2944.3	2848.8	2718.0	2617.4	2706.3	2957.8	3043.3	3259.6	3427.3	3427.3
25°	3618.4	3556.4	3460.8	3175.8	2929.3	2872.3	3103.7	3210.9	3465.8	3635.2	3579.8
27.5°	4401.4	4352.8	4166.7	3834.7	3457.4	3162.3	3273.0	3371.9	3648.5	3853.1	3737.4
30°	5038.6	5015.1	4862.5	4565.8	4149.9	3719.0	3588.3	3653.6	3891.7	4128.1	4009.1
32.5°	5576.8	5576.8	5420.9	5144.2	4755.2	4372.9	4123.1	4170.0	4398.1	4671.4	4450.1
35°	6168.7	6148.6	6022.8	5759.6	5323.6	4986.6	4884.4	4948.1	5154.3	5357.2	4812.2
37.5°	6790.8	6784.1	6653.3	6398.4	6043.0	5618.7	5379.0	5395.7	5501.4	5625.5	5236.5
40°	7466.5	7476.6	7305.5	7147.9	6812.6	6378.3	5918.9	5813.2	5912.2	6262.6	6019.5
42.5°	8264.6	8241.2	8167.4	7952.8	7682.8	7422.9	6871.3	6832.7	6919.9	7295.5	7032.3
45°	9191.9	9225.4	9098.0	8978.9	8797.9	8581.5	8120.4	8053.4	8148.9	8732.5	8358.5
47.5°	10120.8	10089.0	10171.1	10149.3	10246.6	10085.6	9678.1	9540.6	9770.4	10323.7	9773.7
50°	10828.3	10863.6	11034.6	11284.4	11701.9	11792.5	11401.8	11354.9	11457.2	11812.7	11039.7
52.5°	11287.8	11405.2	11673.4	12315.7	13068.5	13653.7	13356.9	13331.7	13289.9	13385.4	12250.3
55°	11587.9	11707.0	12057.4	13003.1	14299.2	15249.9	15265.1	15157.7	14881.1	14812.3	13382.0
57.5°	11403.5	11426.9	11926.7	13190.9	14981.7	16388.4	16881.4	16774.1	16262.7	16002.8	14381.4
60°	10249.9	10298.6	10994.3	12480.0	14684.9	16760.7	17952.9	17904.2	17344.2	17050.8	15159.4
62.5°	8206.0	8346.8	9062.8	10719.4	13304.9	16133.6	18387.1	18524.6	18088.6	17684.5	15404.2
63°	7830.4	7785.1	8541.3	10206.3	12939.4	15823.4	18393.8	18568.2	18122.2	17744.9	15337.1
65°	5796.5	5932.3	6423.6	8048.4	10768.1	14379.7	17979.6	18288.2	17998.1	17478.3	14594.3
67.5°	3254.5	3247.8	3791.1	5266.6	7536.9	11279.4	16257.7	16909.9	16849.5	15684.2	12097.7
70°	1592.9	1618.1	1841.1	2729.7	4371.3	7781.8	13509.5	14213.7	14235.5	12319.0	8365.3
72.5°	721.0	732.7	892.0	1329.7	2246.8	4143.2	9309.2	9981.6	9857.6	7850.5	4619.4
75°	380.6	405.8	491.3	669.0	1083.2	1708.6	5063.7	5714.3	5454.5	3586.5	1700.2
77.5°	281.7	290.1	333.6	425.9	580.1	665.6	2184.8	2598.9	2434.7	1297.8	563.4
80°	206.2	213.0	248.1	301.8	365.5	338.7	823.2	944.0	846.7	441.0	172.7
82.5°	125.7	127.4	181.1	224.7	229.7	189.5	271.6	291.7	305.1	248.1	93.9
85°	45.3	57.0	122.4	162.6	135.9	95.6	114.0	125.7	137.5	157.6	55.4
87.5°	5.0	6.7	58.6	78.8	38.6	35.2	41.9	47.0	50.3	58.6	26.9
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°	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3	2493.3
2.5°	2508.4	2515.1	2510.1	2501.7	2500.0	2495.0	2484.9	2484.9	2484.9	2488.3	2484.9
5°	2545.3	2550.3	2538.6	2521.8	2503.4	2479.9	2454.8	2439.7	2437.9	2434.7	2426.2
7.5°	2615.7	2622.4	2595.6	2555.3	2505.1	2448.0	2394.4	2344.1	2320.6	2302.2	2302.2
10°	2718.0	2724.7	2671.0	2598.9	2498.3	2382.7	2255.2	2139.5	2049.0	2007.1	1997.0
12.5°	2840.4	2843.8	2754.9	2629.2	2463.2	2240.1	1968.5	1715.3	1539.2	1458.7	1450.4
15°	2974.5	2951.0	2833.7	2640.8	2362.5	1946.7	1477.2	1167.0	984.2	930.6	950.7
17.5°	3110.3	3066.8	2894.0	2622.4	2136.2	1477.2	992.6	796.5	739.5	724.4	724.4
20°	3237.8	3177.4	2937.7	2541.9	1743.8	1017.7	736.1	689.1	679.1	669.0	670.7
22.5°	3365.2	3273.0	2976.2	2362.5	1299.5	727.7	659.0	643.9	630.5	617.0	615.4
25°	3489.3	3361.9	2991.3	2030.6	885.3	625.5	602.0	581.8	555.0	539.9	536.6
27.5°	3618.4	3469.2	2981.3	1611.3	645.5	560.0	536.6	508.1	476.2	449.4	449.4
30°	3866.5	3673.8	2946.0	1158.6	543.2	493.0	462.8	417.5	382.3	355.5	353.8
32.5°	4205.3	3940.4	2825.3	814.9	482.9	434.3	389.0	338.7	301.8	281.7	281.7
35°	4507.1	4208.6	2598.9	600.2	434.3	377.2	322.0	273.3	244.8	231.4	226.4
37.5°	4966.5	4601.0	2287.1	488.0	387.4	327.0	270.0	224.7	201.2	191.1	191.1
40°	5655.6	5080.5	1904.8	427.6	342.1	278.4	224.7	189.5	171.0	159.3	159.3
42.5°	6510.8	5667.4	1517.5	384.0	300.1	239.8	187.8	161.0	144.2	135.9	134.1
45°	7587.3	6286.1	1168.7	343.7	266.6	204.6	159.3	135.9	119.0	114.0	115.7
47.5°	8710.6	6831.0	905.5	308.5	231.4	172.7	135.9	117.4	105.6	98.9	98.9
50°	9669.7	7206.7	687.5	268.3	204.6	145.9	119.0	105.6	95.6	92.2	90.5
52.5°	10471.2	7315.6	526.5	233.1	179.4	125.7	105.6	95.6	87.2	82.1	82.1
55°	11153.7	7220.0	412.5	196.1	150.9	109.0	93.9	85.5	75.5	70.4	68.7
57.5°	11552.7	6913.2	315.2	162.6	122.4	90.5	82.1	72.1	60.4	52.0	52.0
60°	11753.9	6467.2	241.5	134.1	93.9	72.1	67.1	53.6	41.9	35.2	33.5
62.5°	11512.4	5875.3	182.8	105.6	70.4	53.6	45.3	38.6	26.9	20.1	20.1
63°	11363.3	5704.2	176.0	100.6	65.4	50.3	41.9	35.2	23.5	18.5	16.8
65°	10358.9	4958.1	144.2	80.5	52.0	35.2	28.5	25.1	16.8	8.4	6.7
67.5°	8226.0	3792.8	114.0	60.4	36.9	25.1	16.8	15.1	5.0	0.0	0.0
70°	5561.7	2449.7	88.9	43.6	25.1	15.1	8.4	6.7	1.6	0.0	0.0
72.5°	2900.8	1255.9	68.7	31.9	15.1	10.0	5.0	1.6	0.0	0.0	0.0
75°	1026.2	427.6	50.3	20.1	10.0	5.0	1.6	0.0	0.0	0.0	0.0
77.5°	310.2	159.3	31.9	15.1	6.7	3.4	0.0	0.0	0.0	0.0	0.0
80°	109.0	58.6	18.5	10.0	5.0	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	53.6	28.5	11.7	8.4	5.0	1.6	0.0	0.0	0.0	0.0	0.0
85°	30.1	18.5	10.0	8.4	5.0	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	21.8	13.4	10.0	8.4	6.7	3.4	1.6	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)