

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: P527843

Luminaire Tested: **GALN-SA2D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527843
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-SA2D-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 6688 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

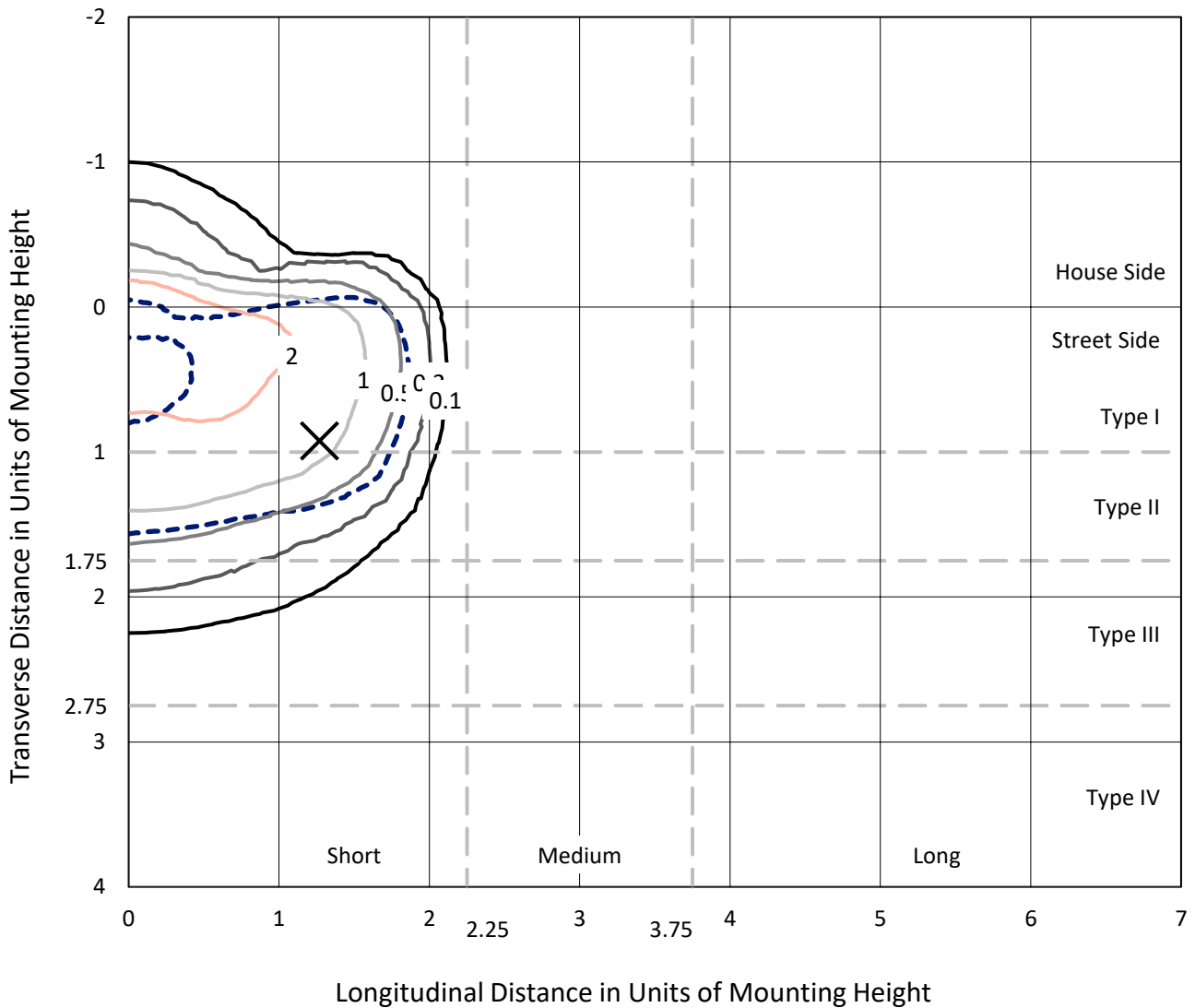
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

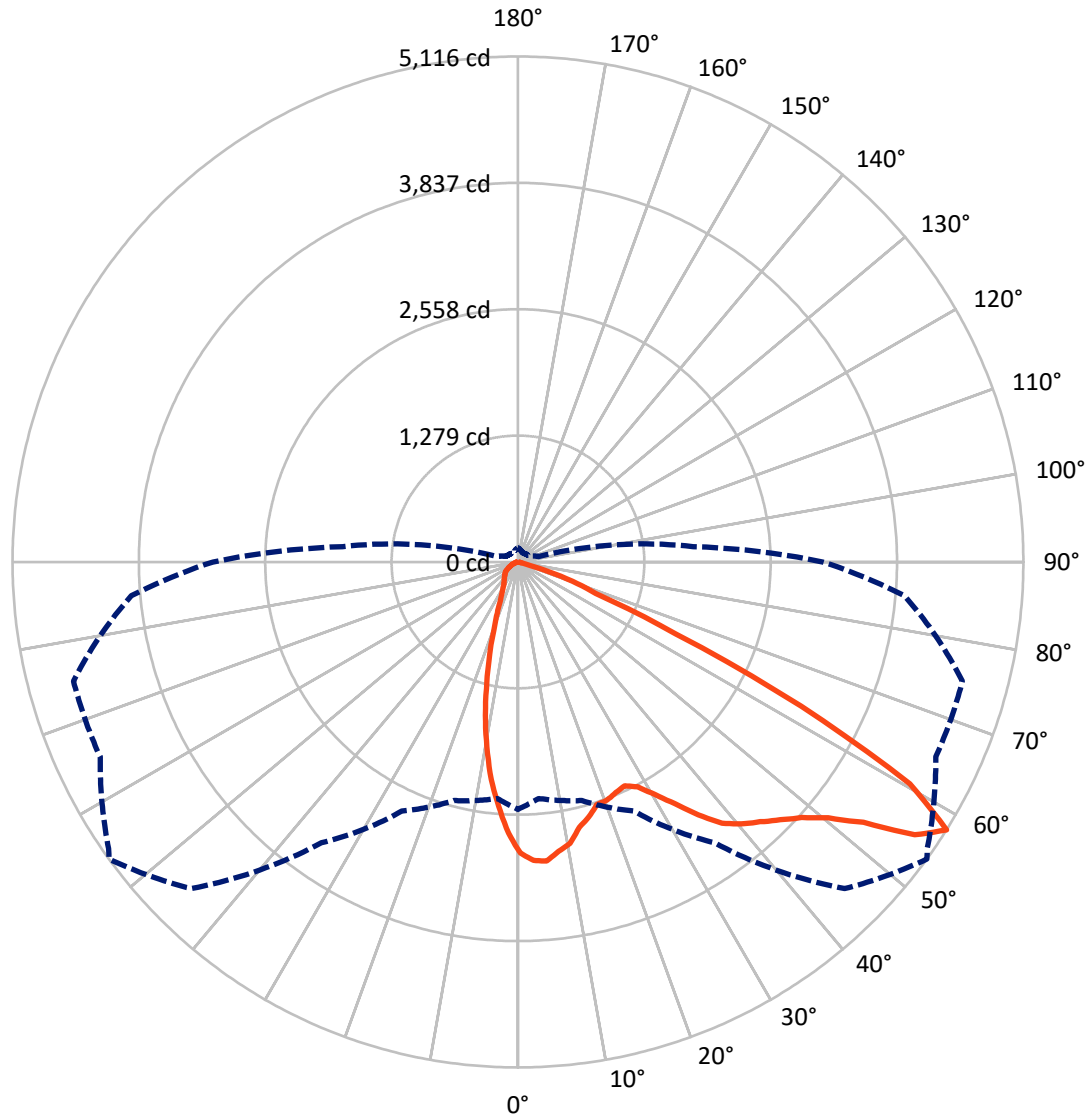
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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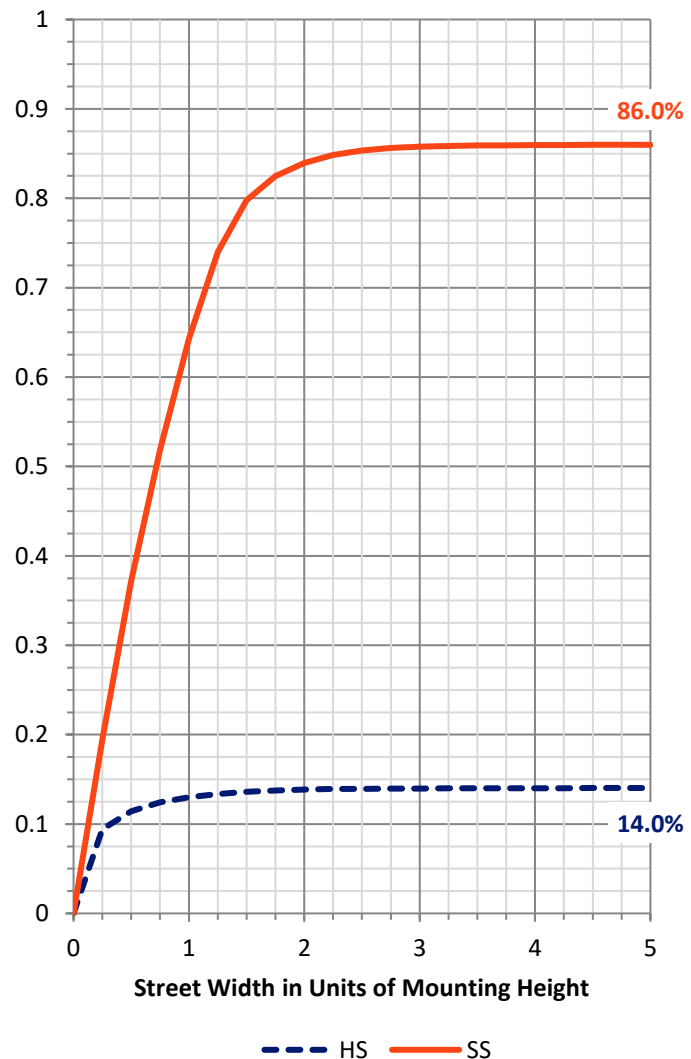
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.1	0.0	945.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5742.9	0.0	5742.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	6688.0	0.0	6688.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	3.7
10°-20°	526.4	7.9
20°-30°	697.5	10.4
30°-40°	1013.7	15.2
40°-50°	1503.2	22.5
50°-60°	1879.7	28.1
60°-70°	741.4	11.1
70°-80°	73.8	1.1
80°-90°	5.7	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°	6688.0	100.0
0°-180°	6688.0	100.0



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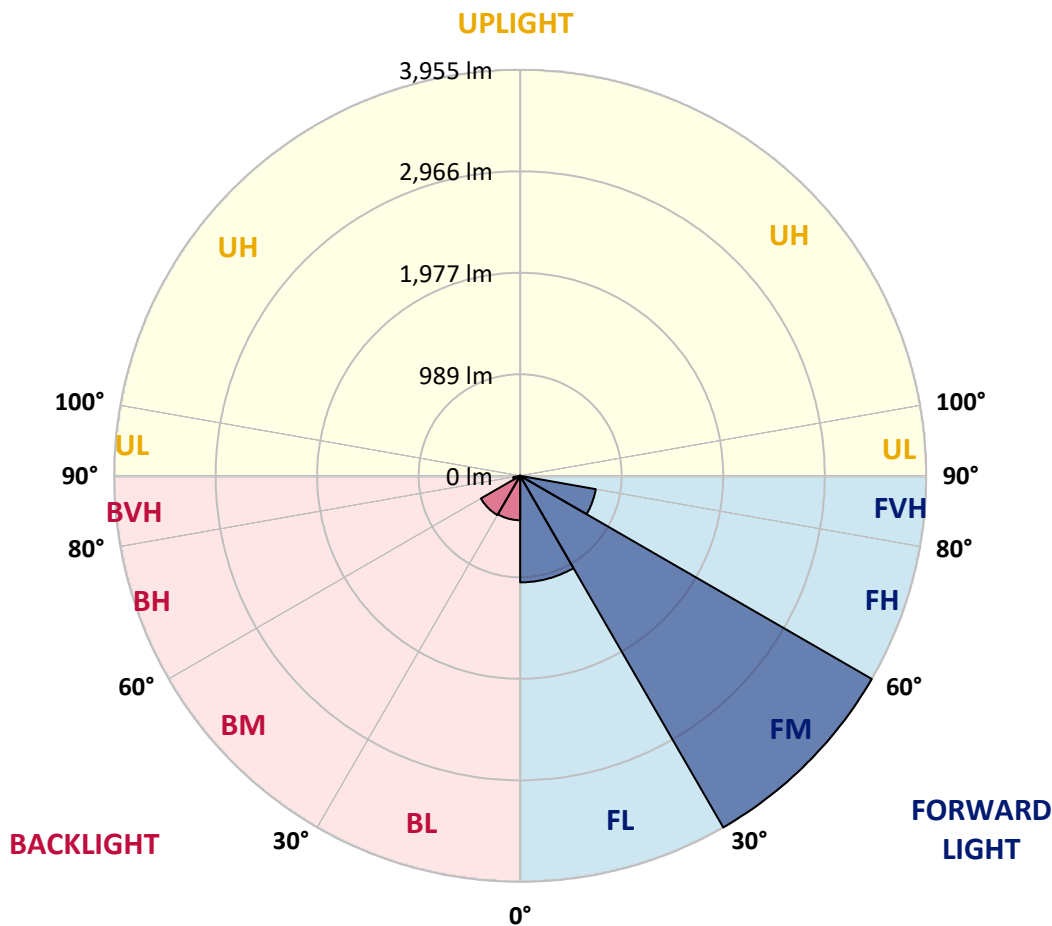
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.2	15.5			
FM (30°-60°)	3954.6	59.1			
FH (60°-80°)	747.5	11.2			G1/1800
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	432.3	6.5	B1/500		
BM (30°-60°)	442.0	6.6	B1/1000		
BH (60°-80°)	67.8	1.0	B0/110		G0/110
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2
2.5°	3117.8	3085.4	3087.9	3076.7	3061.8	3073.0	3024.5	3035.7	3034.5	2968.5	2925.0
5°	3039.4	3074.2	3038.2	3068.0	3039.4	3070.5	3040.7	3018.3	2982.2	2933.7	2852.9
7.5°	2906.4	2872.8	2882.7	2920.0	2926.3	2995.9	2958.6	2987.2	2972.3	2876.5	2765.8
10°	2639.0	2631.5	2681.3	2731.0	2791.9	2866.6	2895.2	2879.0	2867.8	2831.7	2683.7
12.5°	2433.8	2454.9	2453.7	2535.8	2639.0	2681.3	2755.9	2753.4	2815.6	2748.4	2606.6
15°	2238.5	2249.7	2302.0	2352.9	2467.4	2588.0	2680.0	2692.5	2767.1	2719.8	2546.9
17.5°	2119.1	2103.0	2144.0	2205.0	2321.9	2479.8	2581.8	2611.6	2713.6	2703.6	2478.6
20°	2001.0	2001.0	2034.6	2106.7	2213.7	2391.5	2573.1	2564.4	2713.6	2685.0	2405.2
22.5°	1961.2	1981.1	1989.8	2044.5	2171.4	2324.3	2535.8	2551.9	2734.7	2676.3	2372.8
25°	2015.9	1989.8	1992.3	2035.8	2155.2	2292.0	2508.4	2544.5	2773.3	2719.8	2346.7
27.5°	2024.6	2050.7	2058.2	2088.1	2167.6	2302.0	2576.8	2650.2	2869.0	2821.8	2354.2
30°	2100.5	2126.6	2125.4	2176.3	2231.1	2382.8	2729.8	2744.7	3066.8	2949.9	2400.2
32.5°	2192.5	2219.9	2228.6	2288.3	2331.8	2530.8	2916.3	2954.9	3257.1	3151.4	2520.8
35°	2306.9	2297.0	2336.8	2396.5	2489.7	2747.2	3143.9	3208.6	3462.3	3412.5	2645.2
37.5°	2449.9	2437.5	2476.1	2573.1	2699.9	3003.4	3354.1	3396.3	3611.5	3655.0	2875.3
40°	2550.7	2555.7	2672.6	2803.1	2937.4	3247.1	3487.1	3528.2	3716.0	3881.4	3049.4
42.5°	2718.6	2749.7	2890.2	3049.4	3189.9	3429.9	3595.3	3635.1	3764.5	4062.9	3284.4
45°	2962.3	2948.6	3104.1	3281.9	3437.4	3620.2	3723.4	3709.7	3793.1	4243.3	3432.4
47.5°	3275.7	3278.2	3381.4	3533.1	3694.8	3785.6	3866.4	3817.9	3852.8	4433.5	3630.1
50°	3489.6	3508.3	3591.6	3747.1	3827.9	3967.2	4070.4	4040.5	4029.4	4547.9	3754.5
52.5°	3544.3	3600.3	3645.1	3839.1	4028.1	4248.2	4380.1	4443.5	4244.5	4586.5	3912.5
55°	3131.5	3181.2	3339.1	3605.3	4104.0	4693.5	4875.0	4876.3	4525.6	4758.1	4023.1
57.5°	2503.4	2402.7	2499.7	2782.0	3469.7	4674.8	5116.3	5057.8	4666.1	4657.4	3927.4
60°	1731.1	1706.3	1712.5	1824.4	2401.4	3718.4	4559.1	4635.0	4296.7	4036.8	3109.1
62.5°	1371.7	1350.6	1323.2	1310.8	1491.1	2316.9	3216.0	3323.0	3004.6	2617.8	1843.1
65°	1074.5	1062.1	1065.8	1115.5	1114.3	1314.5	1758.5	1715.0	1373.0	1014.8	579.5
67.5°	725.0	743.7	758.6	909.1	986.2	915.3	849.4	824.5	446.5	187.8	128.1
70°	407.9	410.4	426.6	568.3	748.7	710.1	585.7	585.7	222.6	68.4	73.4
72.5°	222.6	215.1	200.2	245.0	333.3	338.3	261.2	227.6	65.9	44.8	41.0
75°	108.2	107.0	92.0	75.9	72.1	59.7	46.0	42.3	29.8	28.6	24.9
77.5°	22.4	21.1	11.2	11.2	12.4	13.7	17.4	17.4	21.1	21.1	17.4
80°	0.0	0.0	1.2	5.0	8.7	12.4	14.9	14.9	17.4	17.4	13.7
82.5°	0.0	0.0	1.2	3.7	7.5	11.2	13.7	14.9	17.4	18.7	14.9
85°	0.0	0.0	0.0	2.5	6.2	8.7	7.5	7.5	6.2	5.0	2.5
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°	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2
2.5°	2902.6	2900.1	2842.9	2810.6	2752.1	2701.2	2660.1	2630.3	2630.3	2611.6	2594.2
5°	2820.5	2799.4	2677.5	2599.2	2488.5	2406.4	2350.5	2306.9	2238.5	2257.2	2183.8
7.5°	2718.6	2665.1	2503.4	2384.0	2231.1	2114.2	1994.8	1889.1	1787.1	1741.1	1766.0
10°	2609.1	2515.9	2298.2	2109.2	1918.9	1705.0	1565.7	1396.6	1292.1	1285.9	1258.6
12.5°	2493.5	2387.8	2122.9	1861.7	1611.7	1354.3	1141.7	983.7	912.8	834.5	849.4
15°	2406.4	2249.7	1927.6	1613.0	1280.9	1021.0	807.1	685.2	618.1	599.4	593.2
17.5°	2311.9	2144.0	1728.6	1348.1	1004.9	735.0	580.8	522.3	496.2	496.2	492.5
20°	2213.7	2024.6	1530.9	1101.9	753.6	548.4	465.1	446.5	445.2	444.0	444.0
22.5°	2149.0	1887.8	1351.8	875.5	568.3	439.0	404.2	396.7	401.7	416.6	416.6
25°	2080.6	1756.0	1154.1	675.3	440.2	376.8	356.9	361.9	374.3	388.0	383.0
27.5°	2010.9	1670.2	967.5	529.8	360.7	329.6	322.1	333.3	347.0	359.4	355.7
30°	1994.8	1578.2	790.9	401.7	309.7	287.3	292.3	302.2	315.9	320.9	325.8
32.5°	2019.7	1506.0	647.9	329.6	269.9	263.6	263.6	268.6	277.3	288.5	284.8
35°	2090.5	1465.0	512.4	286.0	247.5	241.3	240.0	245.0	250.0	253.7	250.0
37.5°	2198.7	1432.7	419.1	253.7	232.6	222.6	220.1	218.9	223.9	225.1	227.6
40°	2336.8	1450.1	355.7	233.8	217.6	206.4	199.0	199.0	199.0	202.7	204.0
42.5°	2486.0	1473.7	307.2	222.6	204.0	190.3	182.8	180.3	182.8	187.8	186.5
45°	2642.7	1519.7	276.1	205.2	191.5	174.1	164.2	161.7	167.9	177.8	176.6
47.5°	2789.5	1585.6	252.5	194.0	179.1	162.9	150.5	148.0	159.2	172.9	174.1
50°	2936.2	1700.0	243.8	185.3	170.4	151.7	140.5	138.0	150.5	167.9	171.6
52.5°	3105.3	1823.2	237.5	174.1	160.4	143.0	130.6	128.1	141.8	164.2	165.4
55°	3216.0	1927.6	232.6	154.2	141.8	129.3	119.4	118.1	133.1	153.0	157.9
57.5°	3086.7	1782.1	215.1	134.3	120.6	114.4	105.7	105.7	118.1	136.8	140.5
60°	2340.5	1172.7	153.0	108.2	102.0	98.2	94.5	94.5	104.5	118.1	119.4
62.5°	1370.5	631.8	98.2	87.1	87.1	83.3	77.1	77.1	87.1	94.5	95.8
65°	406.7	202.7	79.6	74.6	73.4	67.2	60.9	59.7	67.2	70.9	69.6
67.5°	116.9	93.3	65.9	62.2	60.9	51.0	47.3	46.0	47.3	44.8	43.5
70°	69.6	63.4	51.0	52.2	46.0	37.3	33.6	32.3	29.8	26.1	23.6
72.5°	38.6	38.6	37.3	39.8	32.3	24.9	21.1	17.4	13.7	11.2	9.9
75°	23.6	24.9	26.1	27.4	21.1	16.2	13.7	8.7	5.0	2.5	2.5
77.5°	16.2	17.4	18.7	19.9	17.4	14.9	11.2	6.2	1.2	0.0	0.0
80°	12.4	13.7	16.2	17.4	18.7	19.9	14.9	6.2	1.2	0.0	0.0
82.5°	13.7	14.9	18.7	17.4	17.4	17.4	13.7	6.2	1.2	0.0	0.0
85°	2.5	3.7	6.2	6.2	8.7	11.2	8.7	2.5	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)