

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: P647275

Luminaire Tested: **GALN-SA2D-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10076.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

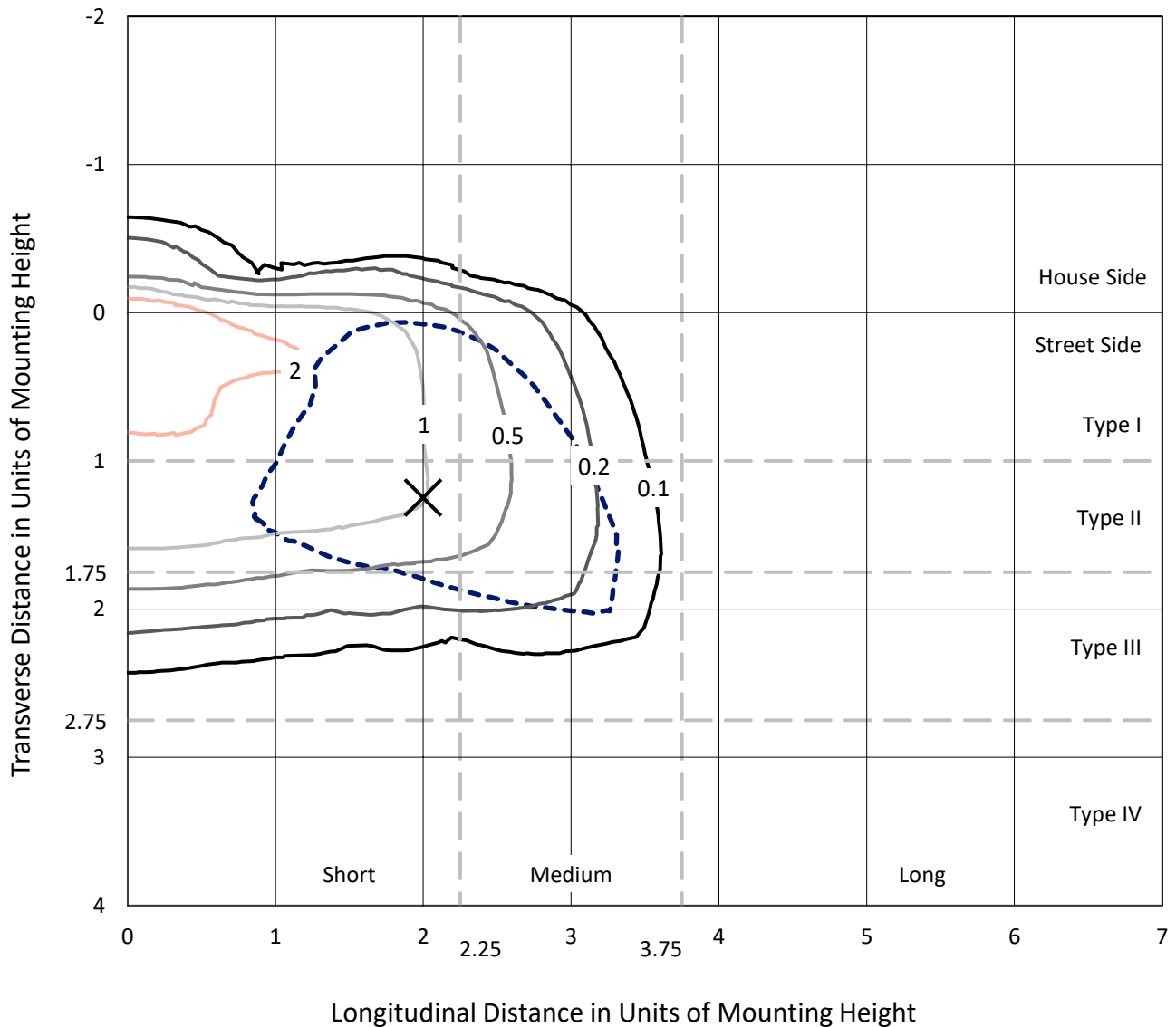
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

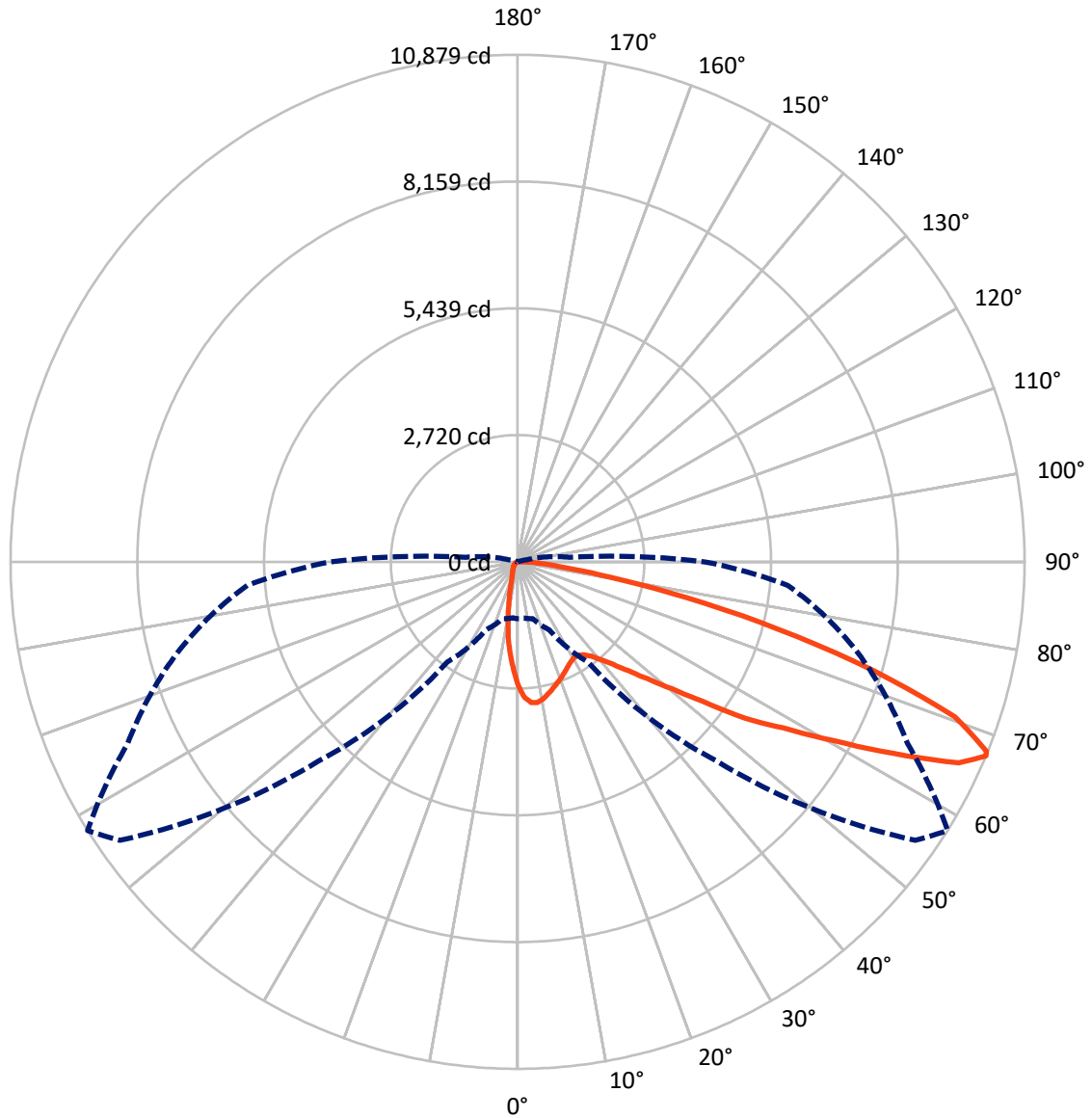
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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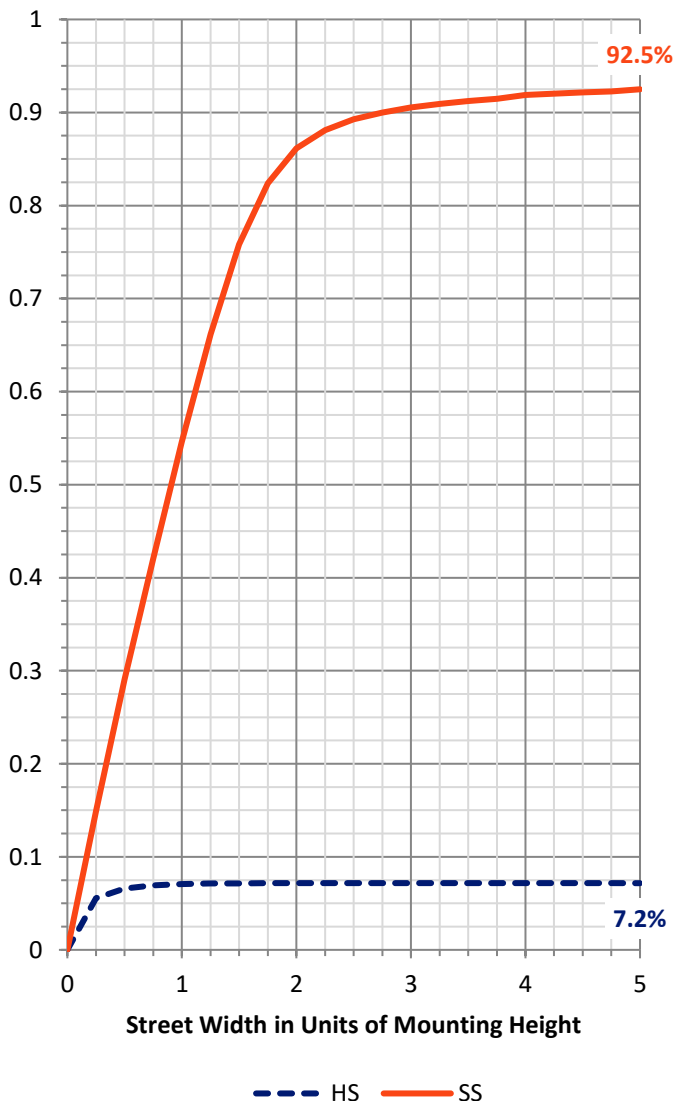
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	727.2	0.0	727.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9349.2	0.0	9349.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	10076.4	0.0	10076.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	2.2
10°-20°	468.1	4.6
20°-30°	634.4	6.3
30°-40°	879.8	8.7
40°-50°	1403.2	13.9
50°-60°	2425.6	24.1
60°-70°	2770.8	27.5
70°-80°	1155.2	11.5
80°-90°	122.5	1.2
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°	10076.4	100.0
0°-180°	10076.4	100.0

Coefficient of Utilization



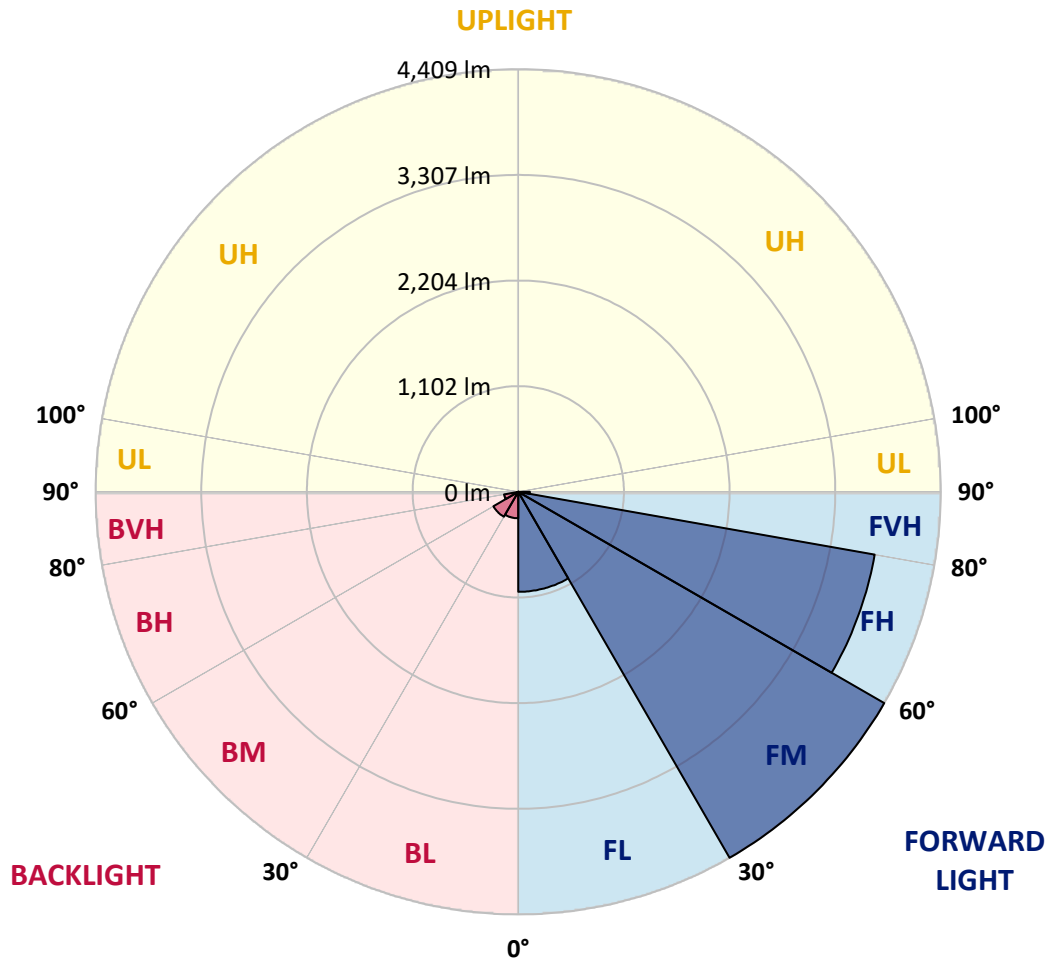
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.2	10.4			
FM (30°-60°)	4408.9	43.8			
FH (60°-80°)	3775.6	37.5			G2/5000
FVH (80°-90°)	121.6	1.2			G2/225
BL (0°-30°)	276.1	2.7	B1/500		
BM (30°-60°)	299.8	3.0	B1/1000		
BH (60°-80°)	150.3	1.5	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: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2
2.5°	3100.1	3104.8	3087.3	3073.1	3036.8	2997.7	2945.9	2918.3	2871.2	2789.7	2699.5
5°	3172.8	3178.9	3176.2	3172.8	3158.7	3121.0	3055.0	3030.8	2961.4	2828.7	2665.8
7.5°	3011.2	3033.4	3036.2	3062.4	3087.3	3090.7	3065.8	3047.6	2983.6	2828.0	2605.8
10°	2797.1	2811.9	2833.4	2863.7	2923.6	2973.5	2997.7	2995.1	2958.0	2807.2	2535.8
12.5°	2580.9	2589.0	2622.0	2673.9	2747.2	2832.1	2896.7	2909.5	2910.2	2782.2	2477.3
15°	2395.1	2391.8	2417.3	2477.3	2580.3	2686.6	2802.4	2822.6	2855.0	2758.0	2422.7
17.5°	2236.2	2253.7	2257.7	2323.7	2418.7	2556.7	2704.2	2739.9	2804.5	2737.1	2377.6
20°	2137.9	2147.3	2156.1	2193.1	2278.6	2424.0	2611.9	2661.1	2757.3	2718.3	2327.1
22.5°	2108.9	2115.0	2107.6	2119.0	2179.6	2308.9	2511.6	2576.9	2712.2	2700.8	2286.0
25°	2131.2	2137.2	2119.7	2106.2	2127.1	2215.3	2414.6	2494.1	2675.9	2697.4	2255.0
27.5°	2185.0	2196.5	2172.2	2148.0	2135.9	2164.8	2338.5	2430.7	2651.0	2713.6	2240.9
30°	2269.2	2275.9	2257.7	2228.1	2200.5	2171.6	2298.8	2387.1	2644.3	2751.3	2239.5
32.5°	2360.7	2374.9	2364.8	2345.2	2309.6	2240.9	2310.2	2388.4	2660.4	2805.8	2256.4
35°	2473.9	2490.0	2499.5	2495.4	2449.6	2364.1	2383.0	2449.0	2703.5	2906.2	2302.2
37.5°	2585.0	2599.1	2652.3	2670.5	2630.1	2549.3	2524.4	2568.2	2798.4	3037.5	2385.0
40°	2712.2	2731.1	2805.8	2875.2	2855.7	2770.8	2725.1	2761.4	2943.8	3235.4	2541.9
42.5°	2834.1	2867.8	2981.6	3104.1	3122.3	3027.4	2997.1	3009.2	3159.3	3520.3	2760.7
45°	3007.2	3038.8	3185.6	3351.9	3437.4	3363.4	3332.4	3330.4	3454.9	3920.9	3115.6
47.5°	3257.0	3285.2	3458.3	3622.6	3774.8	3784.9	3726.3	3746.5	3826.6	4389.6	3550.6
50°	3563.4	3630.0	3743.8	3914.8	4118.2	4282.5	4300.7	4273.8	4342.4	4932.3	4073.1
52.5°	4008.4	4034.0	4138.4	4279.1	4517.5	4796.3	5012.4	4975.3	4953.8	5449.4	4601.0
55°	4340.4	4374.7	4537.0	4730.3	5079.7	5447.4	5916.0	5928.8	5656.8	5946.3	5117.5
57.5°	4240.1	4292.6	4538.3	4926.9	5695.2	6367.2	6715.9	6724.7	6307.2	6429.1	5700.6
60°	3725.0	3749.9	4102.1	4620.5	5747.7	7363.7	7850.6	7779.9	6969.2	6969.2	6215.7
62.5°	2641.5	2680.6	2966.1	3729.0	5190.8	7709.8	9209.3	9063.2	7880.8	7485.6	6522.7
65°	1688.1	1650.4	1839.6	2354.0	3867.0	7198.7	10392.4	10401.2	8738.7	7692.3	6355.1
67°	1222.8	1208.0	1262.5	1609.3	2622.0	6051.3	10417.3	10878.6	9231.6	7561.7	5819.1
67.5°	1118.4	1129.9	1169.6	1451.8	2382.3	5506.6	10304.2	10850.3	9342.7	7482.9	5625.2
70°	847.8	828.2	871.3	1026.8	1428.2	3473.8	8864.0	9951.4	9204.6	6701.1	4494.6
72.5°	623.5	621.5	681.4	839.7	1099.6	1850.4	6654.0	7979.2	7519.9	5102.7	2830.1
75°	420.9	439.7	535.3	701.6	996.5	1199.9	4536.3	5788.8	5220.5	2897.4	1156.8
77.5°	239.7	241.1	344.8	563.6	894.9	965.6	2688.0	3687.9	2763.4	963.6	343.4
80°	103.7	113.8	171.0	409.4	742.0	855.1	1541.3	2026.8	1117.7	204.0	111.1
82.5°	38.4	45.1	75.4	251.8	541.4	704.3	931.2	967.6	379.1	72.0	69.4
85°	0.0	1.3	27.6	117.8	282.1	314.5	622.2	573.7	167.6	34.4	45.1
87.5°	0.0	0.0	0.0	12.1	37.0	117.1	193.2	215.5	40.4	12.1	10.8
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°	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2
2.5°	2651.0	2607.2	2497.5	2387.7	2306.2	2238.2	2135.9	2080.0	2050.4	2006.6	2009.3
5°	2584.3	2495.4	2302.2	2102.2	1940.6	1783.0	1594.5	1518.4	1454.4	1418.1	1393.8
7.5°	2485.3	2354.0	2067.8	1801.2	1552.8	1277.3	1070.6	932.6	839.7	805.3	772.4
10°	2377.0	2202.5	1830.2	1460.5	1115.8	831.5	656.5	529.9	484.8	443.1	447.1
12.5°	2276.6	2064.5	1612.0	1152.7	781.7	528.6	412.1	360.3	345.5	340.7	340.7
15°	2194.4	1932.5	1377.7	866.6	536.0	379.8	330.0	315.8	310.4	309.1	309.1
17.5°	2106.9	1807.2	1166.2	640.3	389.9	317.8	301.0	291.6	289.6	288.2	288.2
20°	2028.8	1681.3	965.6	476.8	315.2	286.2	275.4	269.4	267.3	266.0	266.6
22.5°	1954.8	1569.6	777.0	360.3	277.4	260.6	249.8	243.7	239.7	236.3	237.0
25°	1888.8	1461.9	624.8	295.0	249.8	235.0	224.3	215.5	206.7	202.6	202.0
27.5°	1842.2	1367.6	486.8	252.5	224.9	208.7	195.3	184.5	173.0	167.0	165.6
30°	1803.9	1272.0	385.2	222.8	200.0	184.5	167.6	152.2	140.1	134.0	131.3
32.5°	1779.0	1181.1	303.6	198.6	179.1	160.3	141.4	125.9	112.4	106.4	105.1
35°	1774.9	1105.0	248.4	178.4	160.3	140.1	120.5	103.7	92.2	86.2	84.9
37.5°	1803.9	1046.4	208.0	162.2	144.8	122.5	101.0	85.5	75.4	70.7	70.0
40°	1881.3	1009.4	180.5	148.8	130.6	106.4	86.2	72.7	62.6	57.9	57.9
42.5°	2028.8	1010.7	162.2	136.0	116.5	90.9	73.4	60.6	51.8	47.8	46.4
45°	2259.1	1056.5	146.8	123.2	103.0	78.8	62.6	49.8	41.1	37.7	37.7
47.5°	2567.5	1147.4	133.3	110.4	90.9	67.3	53.2	40.4	33.0	29.6	29.6
50°	2970.8	1293.5	121.9	99.7	80.8	57.9	43.1	33.0	25.6	22.9	22.2
52.5°	3392.3	1473.9	108.4	90.2	69.4	49.2	35.0	25.6	19.5	17.5	16.8
55°	3857.6	1650.4	95.6	80.8	56.5	41.1	27.6	20.2	14.2	12.1	12.1
57.5°	4326.9	1823.5	80.1	67.3	44.5	30.3	21.5	14.8	9.4	7.4	7.4
60°	4724.2	1879.3	68.0	54.6	33.7	21.5	15.5	9.4	5.4	3.4	3.4
62.5°	4778.7	1690.8	57.2	41.7	24.3	14.8	8.1	5.4	2.0	1.3	1.3
65°	4482.4	1373.6	47.8	31.6	16.1	7.4	3.4	2.0	0.7	0.0	0.0
67°	4016.5	1113.7	39.1	23.6	11.4	4.7	2.0	0.7	0.0	0.0	0.0
67.5°	3897.3	1061.9	37.7	22.2	10.1	4.1	1.3	0.7	0.0	0.0	0.0
70°	3058.3	795.2	26.9	13.5	6.0	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	1900.9	449.8	19.5	8.1	4.1	1.3	0.0	0.0	0.0	0.0	0.0
75°	718.5	157.5	13.5	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	223.5	59.9	8.1	4.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.4	22.9	5.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.4	9.4	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.0	4.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	1.3	0.7	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)