

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: P458695

Luminaire Tested: **GALN-SA2C-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458695
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-SA2C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 10895 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

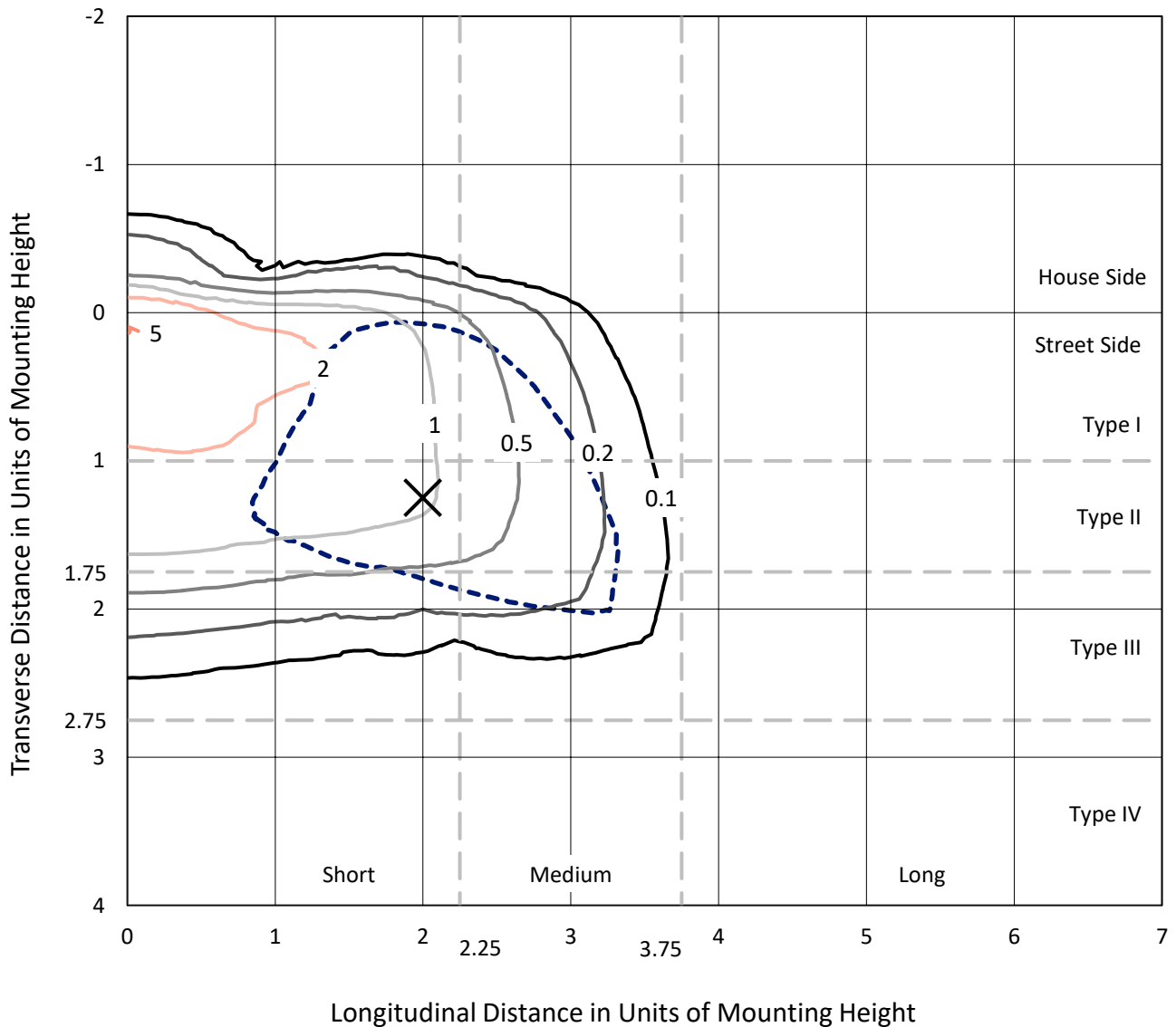
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

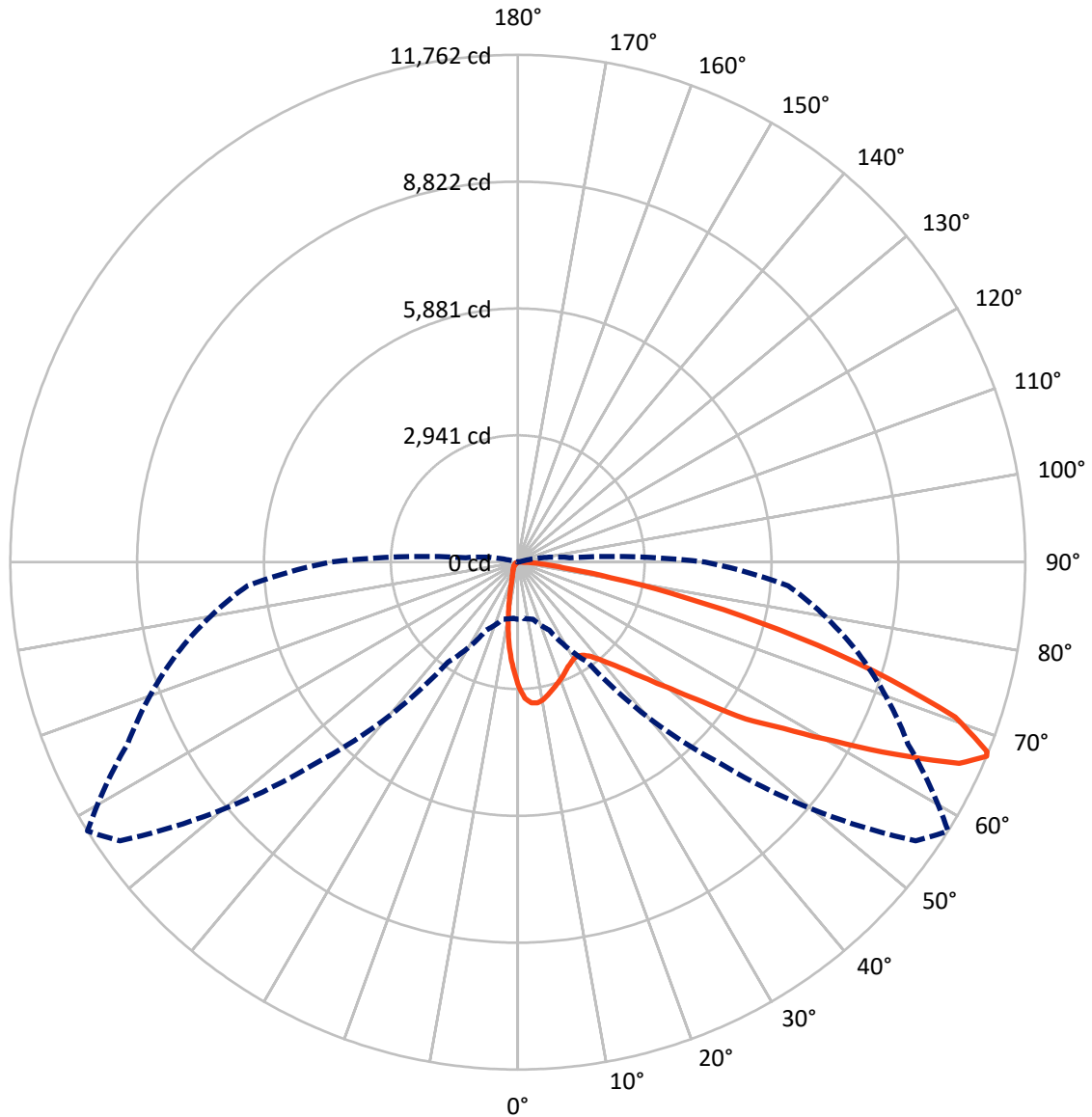
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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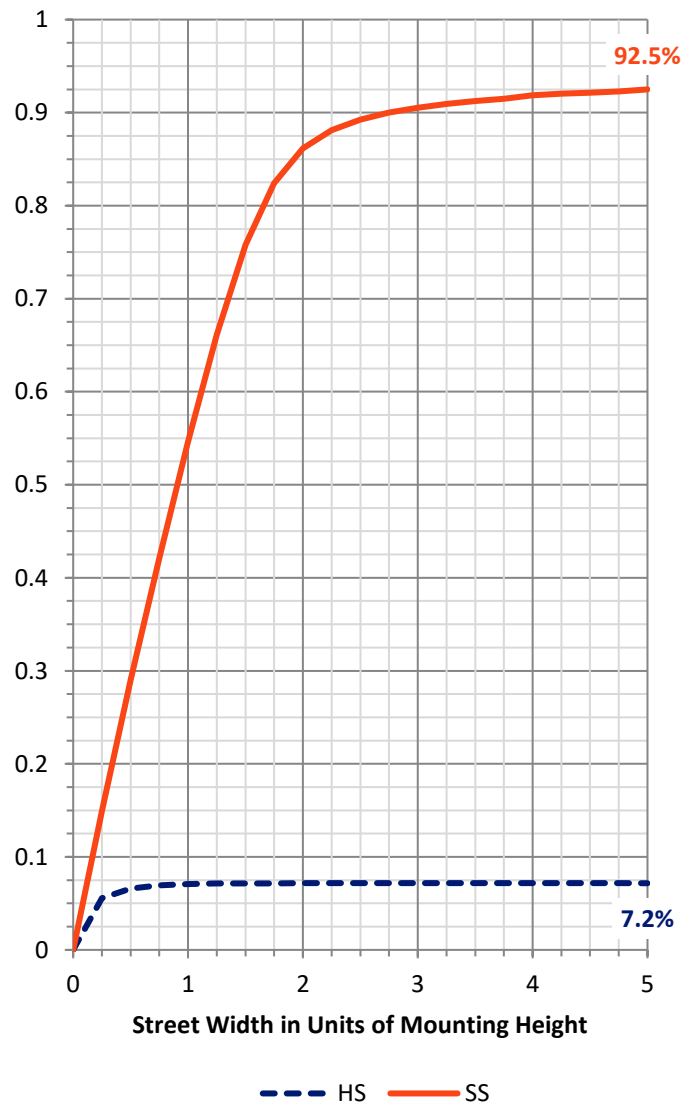
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	786.2	0.0	786.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10108.8	0.0	10108.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	10895.0	0.0	10895.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	2.2
10°-20°	506.2	4.6
20°-30°	685.9	6.3
30°-40°	951.3	8.7
40°-50°	1517.2	13.9
50°-60°	2622.7	24.1
60°-70°	2995.9	27.5
70°-80°	1249.0	11.5
80°-90°	132.4	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°	10895.0	100.0
0°-180°	10895.0	100.0

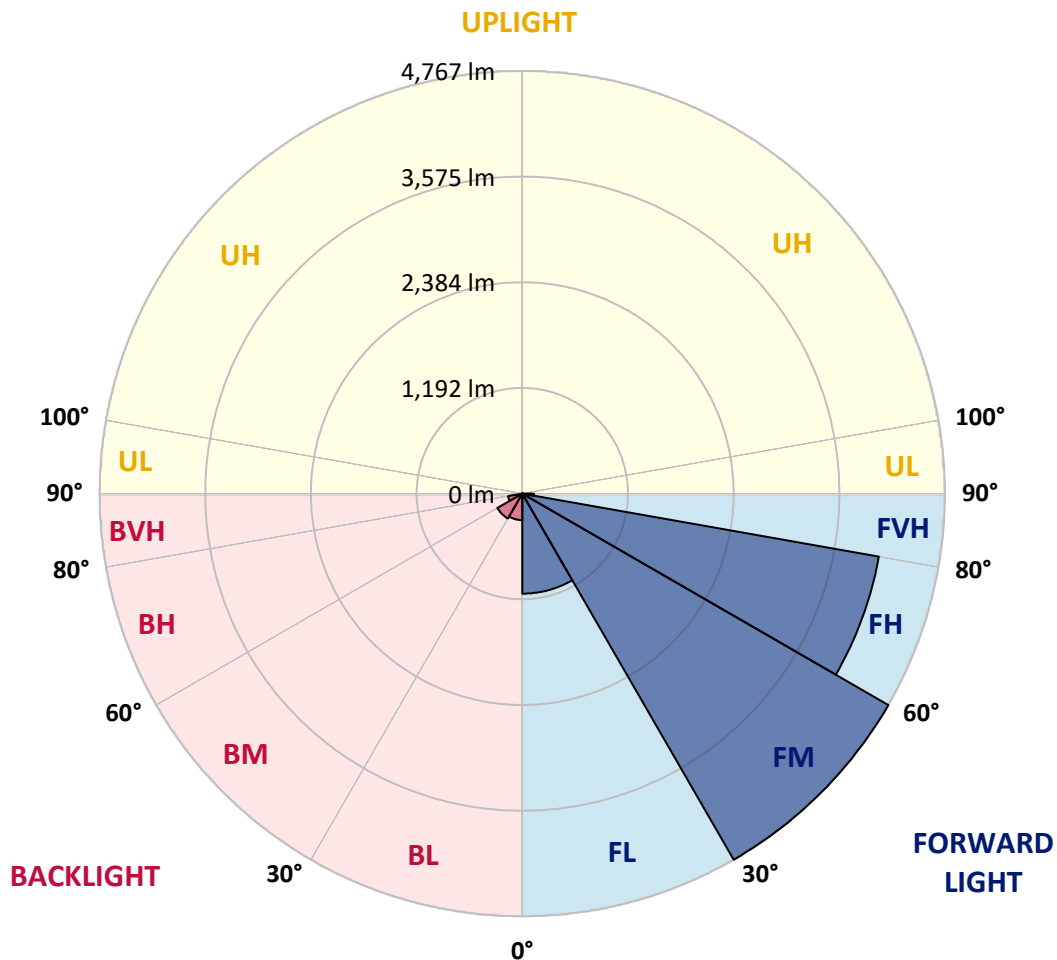


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.9	10.4			
FM (30°-60°)	4767.0	43.8			
FH (60°-80°)	4082.4	37.5			G2/5000
FVH (80°-90°)	131.5	1.2			G2/225
BL (0°-30°)	298.6	2.7	B1/500		
BM (30°-60°)	324.2	3.0	B1/1000		
BH (60°-80°)	162.5	1.5	B1/500		G1/500
BVH (80°-90°)	1.0	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°	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2
2.5°	3351.9	3357.0	3338.1	3322.8	3283.5	3241.3	3185.2	3155.4	3104.4	3016.3	2918.7
5°	3430.6	3437.1	3434.2	3430.6	3415.3	3374.5	3303.2	3276.9	3202.0	3058.5	2882.3
7.5°	3255.8	3279.9	3282.8	3311.2	3338.1	3341.7	3314.8	3295.1	3226.0	3057.8	2817.5
10°	3024.3	3040.3	3063.6	3096.4	3161.2	3215.1	3241.3	3238.4	3198.3	3035.2	2741.8
12.5°	2790.6	2799.3	2835.0	2891.1	2970.4	3062.2	3132.1	3145.9	3146.6	3008.3	2678.5
15°	2589.7	2586.0	2613.7	2678.5	2789.9	2904.9	3030.1	3052.0	3086.9	2982.1	2619.5
17.5°	2417.8	2436.8	2441.1	2512.5	2615.1	2764.4	2923.8	2962.4	3032.3	2959.5	2570.7
20°	2311.6	2321.7	2331.2	2371.3	2463.7	2621.0	2824.1	2877.2	2981.4	2939.1	2516.1
22.5°	2280.2	2286.8	2278.8	2291.2	2356.7	2496.5	2715.6	2786.2	2932.6	2920.2	2471.7
25°	2304.3	2310.8	2291.9	2277.3	2299.9	2395.3	2610.8	2696.7	2893.3	2916.6	2438.2
27.5°	2362.5	2374.9	2348.7	2322.5	2309.4	2340.7	2528.5	2628.3	2866.3	2934.0	2422.9
30°	2453.5	2460.8	2441.1	2409.1	2379.3	2348.0	2485.6	2580.9	2859.0	2974.8	2421.5
32.5°	2552.5	2567.8	2556.9	2535.8	2497.2	2422.9	2497.9	2582.4	2876.5	3033.8	2439.7
35°	2674.8	2692.3	2702.5	2698.1	2648.6	2556.2	2576.6	2647.9	2923.1	3142.3	2489.2
37.5°	2795.0	2810.3	2867.8	2887.4	2843.8	2756.4	2729.5	2776.8	3025.8	3284.2	2578.7
40°	2932.6	2953.0	3033.8	3108.8	3087.6	2995.9	2946.4	2985.7	3183.0	3498.3	2748.4
42.5°	3064.4	3100.8	3223.8	3356.3	3376.0	3273.3	3240.5	3253.6	3416.0	3806.2	2985.0
45°	3251.5	3285.7	3444.4	3624.2	3716.7	3636.6	3603.1	3600.9	3735.6	4239.4	3368.7
47.5°	3521.6	3552.1	3739.3	3916.9	4081.4	4092.4	4029.0	4050.9	4137.5	4746.1	3839.0
50°	3852.8	3924.9	4047.9	4232.9	4452.7	4630.4	4650.0	4620.9	4695.2	5332.9	4404.0
52.5°	4334.1	4361.7	4474.6	4626.7	4884.5	5185.9	5419.6	5379.5	5356.2	5892.1	4974.7
55°	4693.0	4730.1	4905.6	5114.5	5492.4	5889.9	6396.6	6410.5	6116.3	6429.4	5533.2
57.5°	4584.5	4641.3	4907.0	5327.1	6157.8	6884.4	7261.5	7271.0	6819.6	6951.4	6163.7
60°	4027.6	4054.5	4435.3	4995.9	6214.6	7961.9	8488.3	8411.9	7535.3	7535.3	6720.6
62.5°	2856.1	2898.4	3207.0	4031.9	5612.5	8336.1	9957.5	9799.5	8521.1	8093.7	7052.6
65°	1825.2	1784.4	1989.0	2545.3	4181.2	7783.6	11236.7	11246.1	9448.6	8317.2	6871.3
67°	1322.1	1306.1	1365.1	1740.0	2835.0	6543.0	11263.6	11762.3	9981.5	8176.0	6291.8
67.5°	1209.3	1221.7	1264.6	1569.7	2575.8	5954.0	11141.3	11731.8	10101.7	8090.8	6082.1
70°	916.6	895.5	942.1	1110.3	1544.2	3756.0	9584.0	10759.8	9952.4	7245.5	4859.7
72.5°	674.2	672.0	736.8	907.9	1188.9	2000.7	7194.6	8627.4	8130.8	5517.1	3060.0
75°	455.0	475.4	578.8	758.6	1077.5	1297.4	4904.9	6259.0	5644.6	3132.8	1250.8
77.5°	259.2	260.6	372.8	609.4	967.6	1044.0	2906.4	3987.5	2987.9	1041.8	371.3
80°	112.1	123.0	184.9	442.7	802.3	924.6	1666.5	2191.4	1208.6	220.6	120.1
82.5°	41.5	48.8	81.5	272.3	585.4	761.5	1006.9	1046.2	409.9	77.9	75.0
85°	0.0	1.5	29.8	127.4	305.1	340.0	672.7	620.3	181.3	37.1	48.8
87.5°	0.0	0.0	0.0	13.1	40.0	126.7	208.9	233.0	43.7	13.1	11.6
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°	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2
2.5°	2866.3	2819.0	2700.3	2581.7	2493.6	2420.0	2309.4	2248.9	2216.9	2169.6	2172.5
5°	2794.2	2698.1	2489.2	2273.0	2098.2	1927.9	1724.0	1641.7	1572.6	1533.3	1507.1
7.5°	2687.2	2545.3	2235.8	1947.5	1678.9	1381.1	1157.6	1008.3	907.9	870.7	835.1
10°	2570.0	2381.4	1978.8	1579.1	1206.4	899.1	709.8	573.0	524.2	479.1	483.4
12.5°	2461.5	2232.2	1742.9	1246.4	845.3	571.5	445.6	389.5	373.5	368.4	368.4
15°	2372.7	2089.5	1489.6	937.0	579.5	410.6	356.7	341.5	335.6	334.2	334.2
17.5°	2278.1	1954.1	1261.0	692.4	421.5	343.6	325.4	315.2	313.1	311.6	311.6
20°	2193.6	1817.9	1044.0	515.5	340.7	309.4	297.8	291.2	289.0	287.6	288.3
22.5°	2113.5	1697.1	840.2	389.5	300.0	281.8	270.1	263.6	259.2	255.5	256.3
25°	2042.2	1580.6	675.6	318.9	270.1	254.1	242.4	233.0	223.5	219.1	218.4
27.5°	1991.9	1478.7	526.4	273.0	243.2	225.7	211.1	199.5	187.1	180.6	179.1
30°	1950.4	1375.3	416.4	241.0	216.2	199.5	181.3	164.5	151.4	144.9	142.0
32.5°	1923.5	1277.0	328.3	214.8	193.7	173.3	152.9	136.1	121.6	115.0	113.6
35°	1919.1	1194.7	268.6	192.9	173.3	151.4	130.3	112.1	99.7	93.2	91.7
37.5°	1950.4	1131.4	225.0	175.5	156.5	132.5	109.2	92.5	81.5	76.4	75.7
40°	2034.2	1091.3	195.1	160.9	141.2	115.0	93.2	78.6	67.7	62.6	62.6
42.5°	2193.6	1092.8	175.5	147.1	126.0	98.3	79.4	65.5	56.1	51.7	50.2
45°	2442.6	1142.3	158.7	133.2	111.4	85.2	67.7	53.9	44.4	40.8	40.8
47.5°	2776.0	1240.6	144.2	119.4	98.3	72.8	57.5	43.7	35.7	32.0	32.0
50°	3212.1	1398.6	131.8	107.8	87.4	62.6	46.6	35.7	27.7	24.8	24.0
52.5°	3667.9	1593.7	117.2	97.6	75.0	53.1	37.9	27.7	21.1	18.9	18.2
55°	4171.0	1784.4	103.4	87.4	61.2	44.4	29.8	21.8	15.3	13.1	13.1
57.5°	4678.4	1971.6	86.6	72.8	48.1	32.8	23.3	16.0	10.2	8.0	8.0
60°	5108.0	2032.0	73.5	59.0	36.4	23.3	16.7	10.2	5.8	3.6	3.6
62.5°	5167.0	1828.1	61.9	45.1	26.2	16.0	8.7	5.8	2.2	1.5	1.5
65°	4846.6	1485.2	51.7	34.2	17.5	8.0	3.6	2.2	0.7	0.0	0.0
67°	4342.8	1204.2	42.2	25.5	12.4	5.1	2.2	0.7	0.0	0.0	0.0
67.5°	4213.9	1148.1	40.8	24.0	10.9	4.4	1.5	0.7	0.0	0.0	0.0
70°	3306.8	859.8	29.1	14.6	6.6	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	2055.3	486.3	21.1	8.7	4.4	1.5	0.0	0.0	0.0	0.0	0.0
75°	776.8	170.4	14.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	241.7	64.8	8.7	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	81.5	24.8	5.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.2	10.2	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	1.5	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)