

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: P650740

Luminaire Tested: **GALN-SA2C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650740
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-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 9835.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

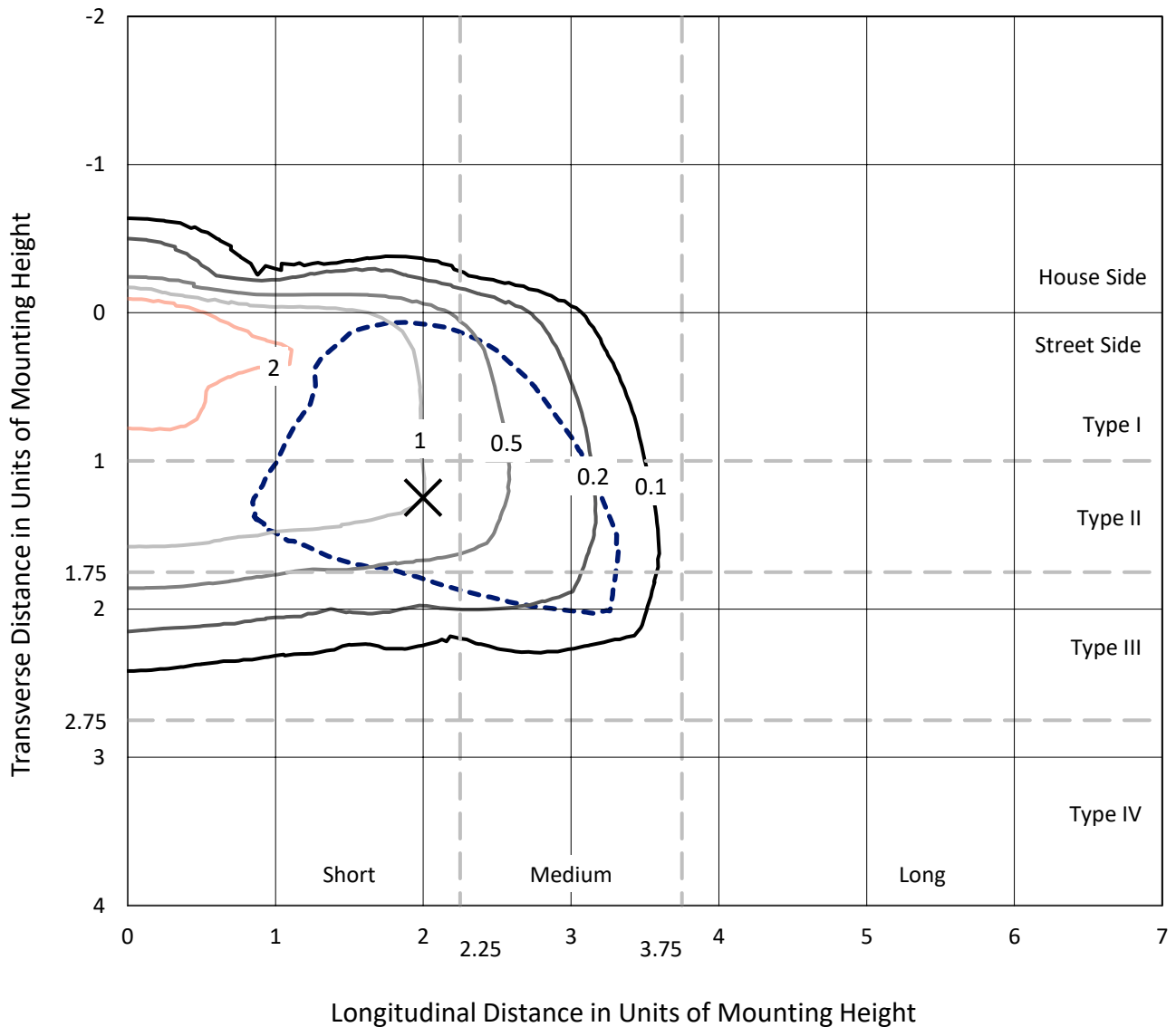
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

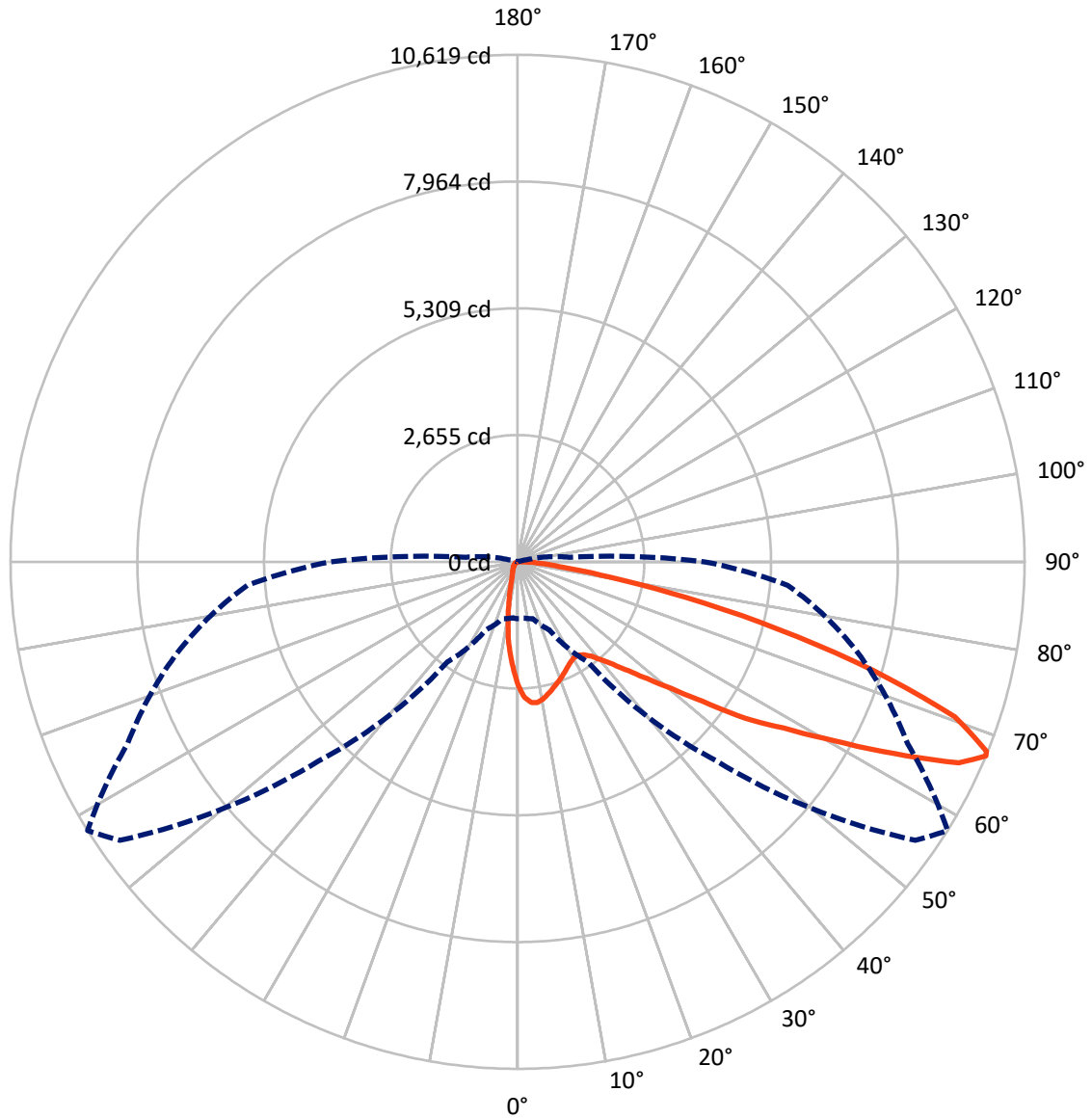
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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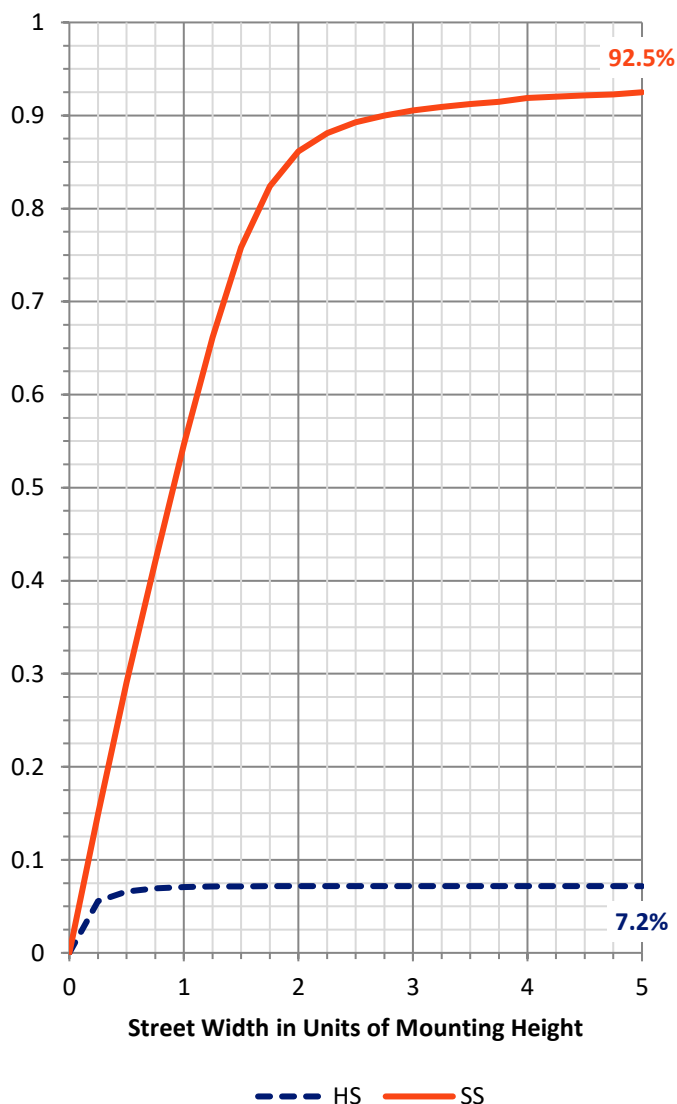
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.8	0.0	709.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9125.7	0.0	9125.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	9835.5	0.0	9835.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	2.2
10°-20°	457.0	4.6
20°-30°	619.2	6.3
30°-40°	858.8	8.7
40°-50°	1369.7	13.9
50°-60°	2367.6	24.1
60°-70°	2704.6	27.5
70°-80°	1127.6	11.5
80°-90°	119.6	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°	9835.5	100.0
0°-180°	9835.5	100.0

Coefficient of Utilization



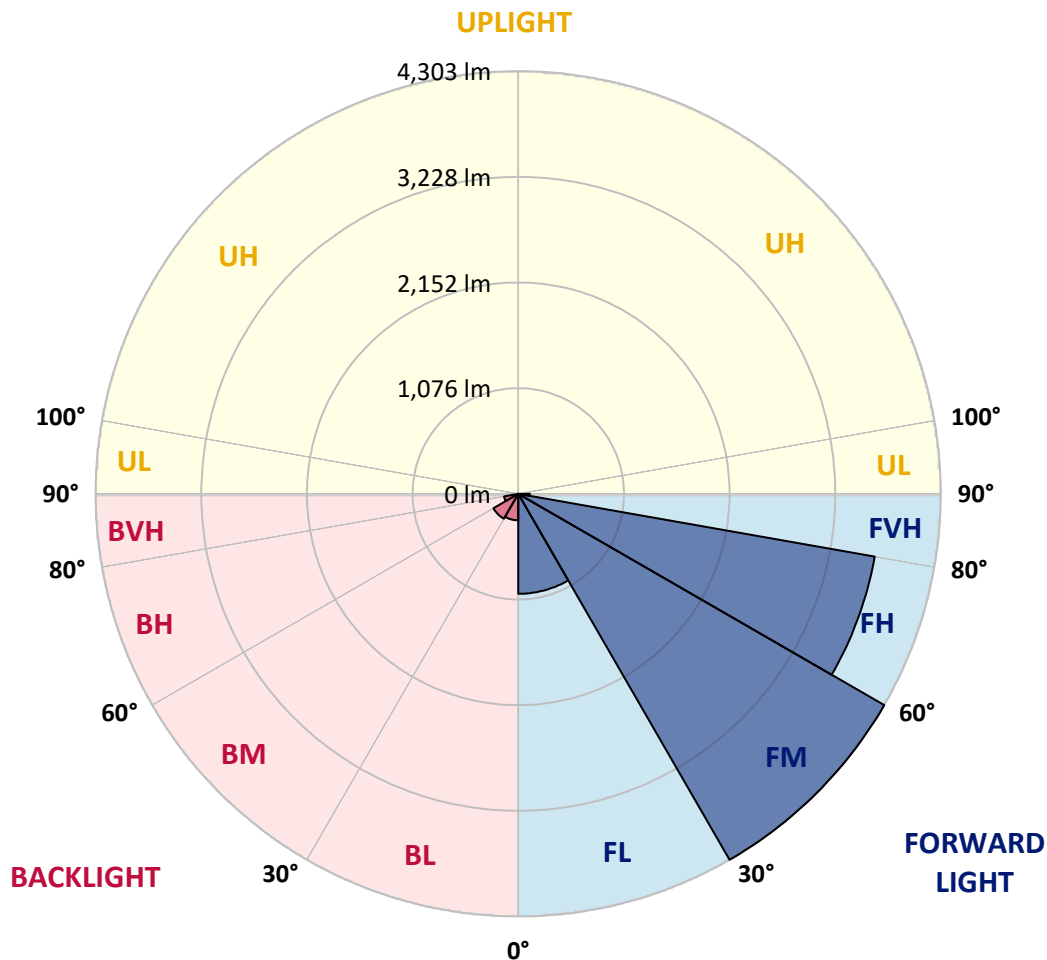
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.2	10.4			
FM (30°-60°)	4303.4	43.8			
FH (60°-80°)	3685.4	37.5			G2/5000
FVH (80°-90°)	118.7	1.2			G2/225
BL (0°-30°)	269.5	2.7	B1/500		
BM (30°-60°)	292.7	3.0	B1/1000		
BH (60°-80°)	146.7	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°	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3
2.5°	3026.0	3030.5	3013.5	2999.7	2964.2	2926.1	2875.5	2848.6	2802.5	2723.0	2634.9
5°	3097.0	3102.9	3100.3	3097.0	3083.1	3046.4	2981.9	2958.3	2890.6	2761.1	2602.1
7.5°	2939.2	2960.9	2963.5	2989.2	3013.5	3016.8	2992.4	2974.7	2912.3	2760.4	2543.5
10°	2730.2	2744.7	2765.7	2795.2	2853.8	2902.4	2926.1	2923.4	2887.3	2740.1	2475.2
12.5°	2519.2	2527.1	2559.3	2610.0	2681.5	2764.4	2827.4	2840.0	2840.6	2715.8	2418.0
15°	2337.8	2334.5	2359.5	2418.0	2518.5	2622.4	2735.4	2755.2	2786.7	2692.1	2364.8
17.5°	2182.7	2199.8	2203.8	2268.2	2360.9	2495.6	2639.5	2674.4	2737.5	2671.7	2320.7
20°	2086.8	2095.9	2104.5	2140.7	2224.1	2366.1	2549.5	2597.4	2691.5	2653.3	2271.5
22.5°	2058.5	2064.4	2057.2	2068.4	2127.5	2253.7	2451.5	2515.3	2647.4	2636.2	2231.3
25°	2080.2	2086.1	2069.0	2055.9	2076.3	2162.4	2356.9	2434.4	2611.9	2632.9	2201.1
27.5°	2132.8	2144.0	2120.2	2096.6	2084.8	2113.0	2282.6	2372.6	2587.6	2648.7	2187.4
30°	2214.9	2221.5	2203.8	2174.8	2147.9	2119.7	2243.9	2329.9	2581.0	2685.5	2186.0
32.5°	2304.3	2318.1	2308.3	2289.2	2254.4	2187.4	2255.0	2331.3	2596.8	2738.7	2202.4
35°	2414.8	2430.5	2439.7	2435.8	2391.0	2307.6	2326.0	2390.4	2638.8	2836.7	2247.2
37.5°	2523.2	2537.0	2588.9	2606.7	2567.2	2488.4	2464.0	2506.8	2731.5	2964.9	2328.0
40°	2647.4	2665.8	2738.7	2806.4	2787.4	2704.6	2659.9	2695.4	2873.4	3158.0	2481.1
42.5°	2766.4	2799.2	2910.3	3029.9	3047.6	2955.0	2925.4	2937.3	3083.8	3436.1	2694.7
45°	2935.3	2966.1	3109.4	3271.7	3355.3	3282.9	3252.7	3250.7	3372.3	3827.1	3041.1
47.5°	3179.1	3206.7	3375.6	3536.0	3684.5	3694.3	3637.2	3656.9	3735.1	4284.6	3465.7
50°	3478.1	3543.2	3654.3	3821.3	4019.7	4180.1	4197.9	4171.5	4238.6	4814.3	3975.7
52.5°	3912.6	3937.6	4039.4	4176.8	4409.4	4681.6	4892.5	4856.4	4835.3	5319.1	4490.9
55°	4236.6	4270.1	4428.5	4617.2	4958.3	5317.1	5774.6	5787.1	5521.5	5804.2	4995.1
57.5°	4138.6	4189.9	4429.9	4809.1	5559.0	6214.9	6555.3	6563.9	6156.5	6275.4	5564.2
60°	3635.9	3660.2	4003.9	4510.0	5610.2	7187.7	7662.9	7593.8	6802.5	6802.5	6067.1
62.5°	2578.4	2616.5	2895.1	3639.8	5066.7	7525.5	8989.2	8846.6	7692.5	7306.6	6366.8
65°	1647.7	1610.9	1795.6	2297.7	3774.6	7026.6	10144.0	10152.5	8529.8	7508.4	6203.1
67°	1193.5	1179.1	1232.3	1570.8	2559.3	5906.7	10168.3	10618.5	9010.9	7380.9	5679.9
67.5°	1091.7	1102.9	1141.7	1417.0	2325.4	5375.0	10057.9	10590.9	9119.3	7304.0	5490.6
70°	827.5	808.5	850.5	1002.3	1394.0	3390.7	8652.0	9713.5	8984.6	6541.0	4387.2
72.5°	608.6	606.6	665.1	819.6	1073.3	1806.1	6494.9	7788.4	7340.2	4980.7	2762.4
75°	410.7	429.2	522.5	684.8	972.7	1171.2	4427.9	5650.3	5095.6	2828.1	1129.1
77.5°	234.0	235.3	336.5	550.1	873.5	942.5	2623.8	3599.7	2697.3	940.5	335.2
80°	101.3	111.1	166.9	399.6	724.3	834.7	1504.5	1978.3	1091.0	199.1	108.4
82.5°	37.4	44.1	73.6	245.8	528.4	687.5	909.0	944.4	370.0	70.3	67.7
85°	0.0	1.3	26.9	115.0	275.4	307.0	607.3	559.9	163.7	33.6	44.1
87.5°	0.0	0.0	0.0	11.9	36.2	114.4	188.6	210.3	39.4	11.9	10.5
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°	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3	2607.3
2.5°	2587.6	2544.9	2437.7	2330.6	2251.1	2184.7	2084.8	2030.3	2001.3	1958.6	1961.2
5°	2522.5	2435.8	2247.2	2052.0	1894.2	1740.4	1556.4	1482.1	1419.7	1384.2	1360.5
7.5°	2425.9	2297.7	2018.4	1758.1	1515.7	1246.8	1045.0	910.3	819.6	786.1	753.9
10°	2320.1	2149.8	1786.4	1425.6	1089.1	811.7	640.8	517.2	473.2	432.4	436.4
12.5°	2222.2	2015.1	1573.4	1125.2	763.0	516.0	402.3	351.6	337.2	332.5	332.5
15°	2141.9	1886.3	1344.8	845.9	523.2	370.7	322.0	308.2	303.0	301.7	301.7
17.5°	2056.5	1764.1	1138.4	625.0	380.6	310.2	293.8	284.6	282.6	281.3	281.3
20°	1980.3	1641.1	942.5	465.3	307.6	279.3	268.8	262.9	261.0	259.6	260.3
22.5°	1908.0	1532.0	758.5	351.6	270.8	254.3	243.8	237.9	234.0	230.7	231.4
25°	1843.6	1426.9	609.9	287.9	243.8	229.3	218.8	210.3	201.8	197.8	197.2
27.5°	1798.2	1334.8	475.2	246.5	219.5	203.8	190.6	180.1	168.9	163.0	161.7
30°	1760.8	1241.6	375.9	217.6	195.2	180.1	163.7	148.5	136.7	130.8	128.2
32.5°	1736.4	1152.8	296.5	193.9	174.8	156.4	138.0	122.9	109.8	103.9	102.5
35°	1732.5	1078.6	242.5	174.2	156.4	136.7	117.7	101.3	90.1	84.1	82.8
37.5°	1760.8	1021.4	203.1	158.4	141.3	119.6	98.6	83.5	73.6	69.0	68.4
40°	1836.3	985.2	176.1	145.2	127.5	103.9	84.1	71.0	61.1	56.5	56.5
42.5°	1980.3	986.5	158.4	132.8	113.7	88.7	71.7	59.1	50.6	46.7	45.3
45°	2205.1	1031.2	143.3	120.3	100.6	76.9	61.1	48.6	40.1	36.8	36.8
47.5°	2506.1	1120.0	130.1	107.8	88.7	65.8	51.9	39.4	32.2	28.9	28.9
50°	2899.8	1262.6	119.0	97.3	78.9	56.5	42.0	32.2	25.0	22.4	21.7
52.5°	3311.2	1438.7	105.8	88.1	67.7	47.9	34.1	25.0	19.1	17.1	16.4
55°	3765.4	1610.9	93.4	78.9	55.2	40.1	26.9	19.7	13.8	11.9	11.9
57.5°	4223.5	1779.8	78.2	65.8	43.4	29.6	21.0	14.5	9.2	7.2	7.2
60°	4611.3	1834.4	66.4	53.2	32.9	21.0	15.1	9.2	5.3	3.3	3.3
62.5°	4664.5	1650.4	55.8	40.8	23.6	14.5	7.9	5.3	1.9	1.3	1.3
65°	4375.3	1340.8	46.7	30.9	15.8	7.2	3.3	1.9	0.7	0.0	0.0
67°	3920.5	1087.1	38.1	23.0	11.2	4.6	1.9	0.7	0.0	0.0	0.0
67.5°	3804.2	1036.4	36.8	21.7	9.8	4.0	1.3	0.7	0.0	0.0	0.0
70°	2985.2	776.2	26.3	13.1	5.9	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	1855.4	439.0	19.1	7.9	4.0	1.3	0.0	0.0	0.0	0.0	0.0
75°	701.3	153.8	13.1	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	218.2	58.5	7.9	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.6	22.4	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.3	9.2	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.3	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	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)