

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: P458900

Luminaire Tested: **GALN-SA4B-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17249 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

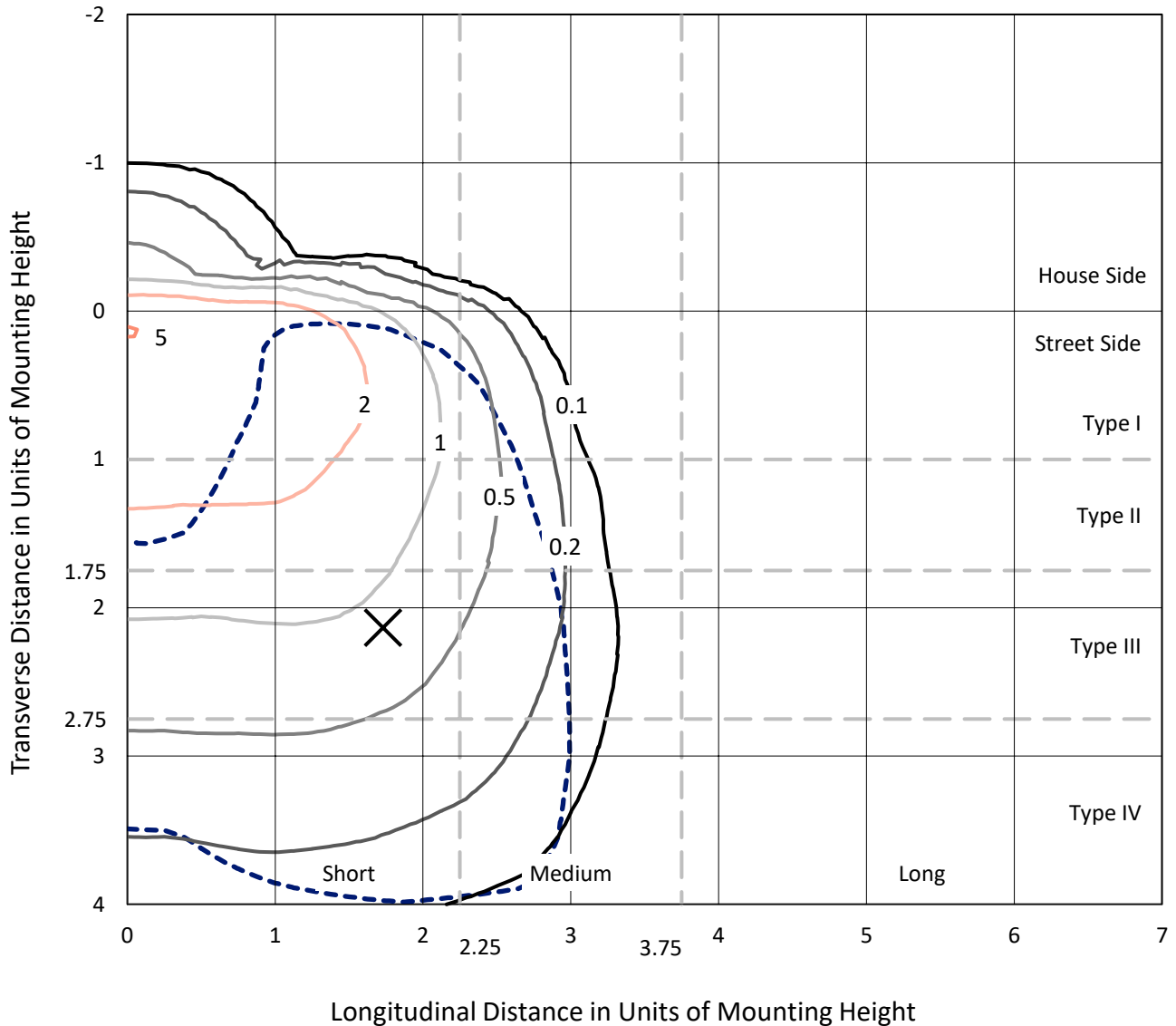
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

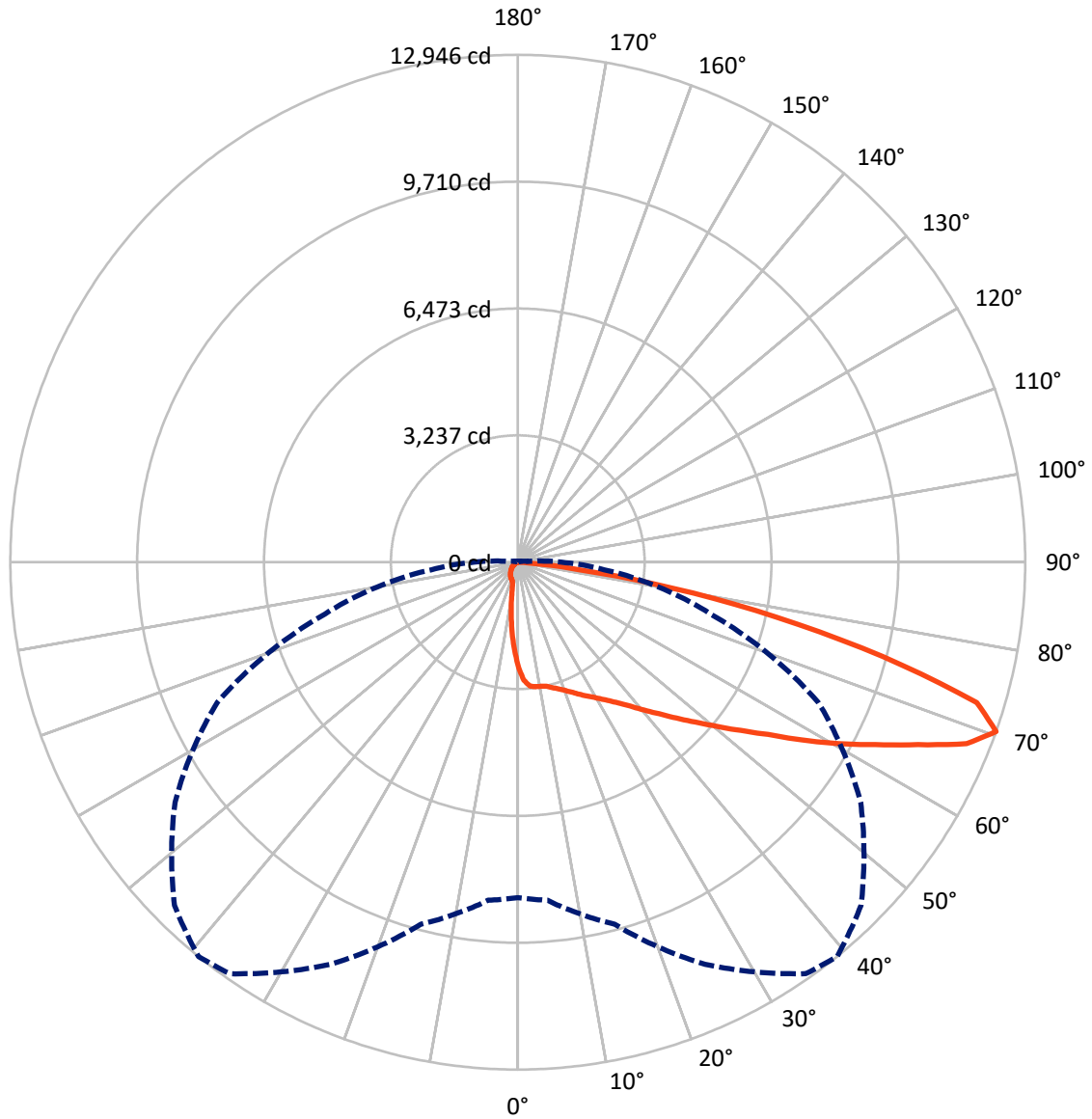
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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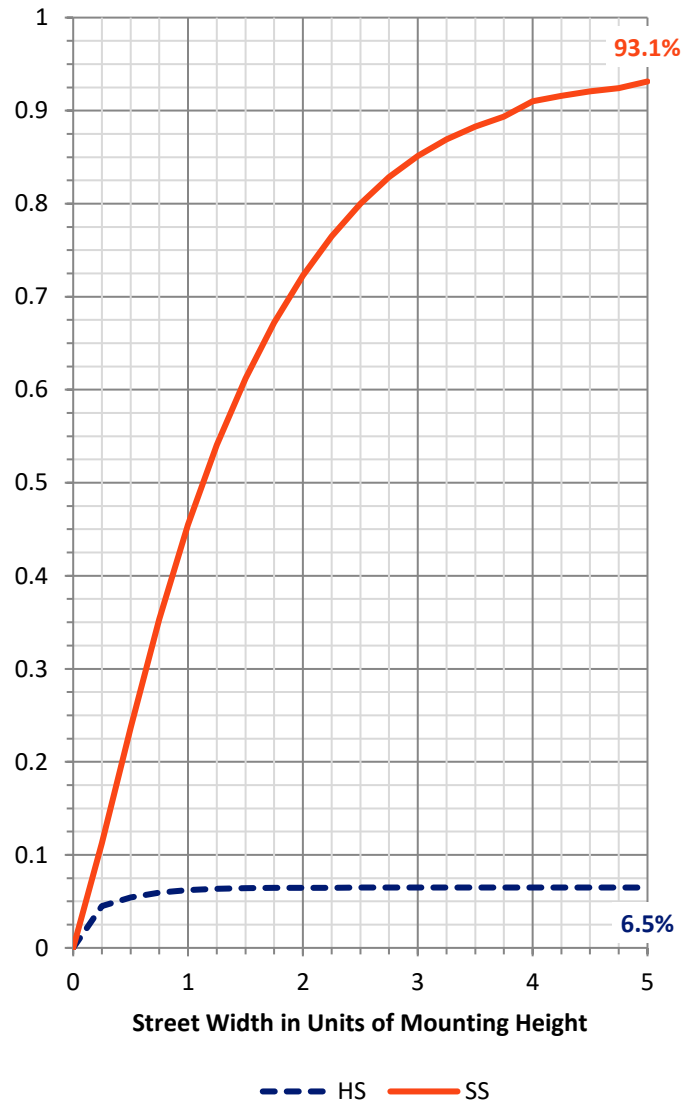
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.7	0.0	1124.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	16124.3	0.0	16124.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	17249.0	0.0	17249.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	1.3
10°-20°	596.6	3.5
20°-30°	999.4	5.8
30°-40°	1550.0	9.0
40°-50°	2456.2	14.2
50°-60°	3600.5	20.9
60°-70°	4614.9	26.8
70°-80°	2899.9	16.8
80°-90°	302.1	1.8
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°	17249.0	100.0
0°-180°	17249.0	100.0



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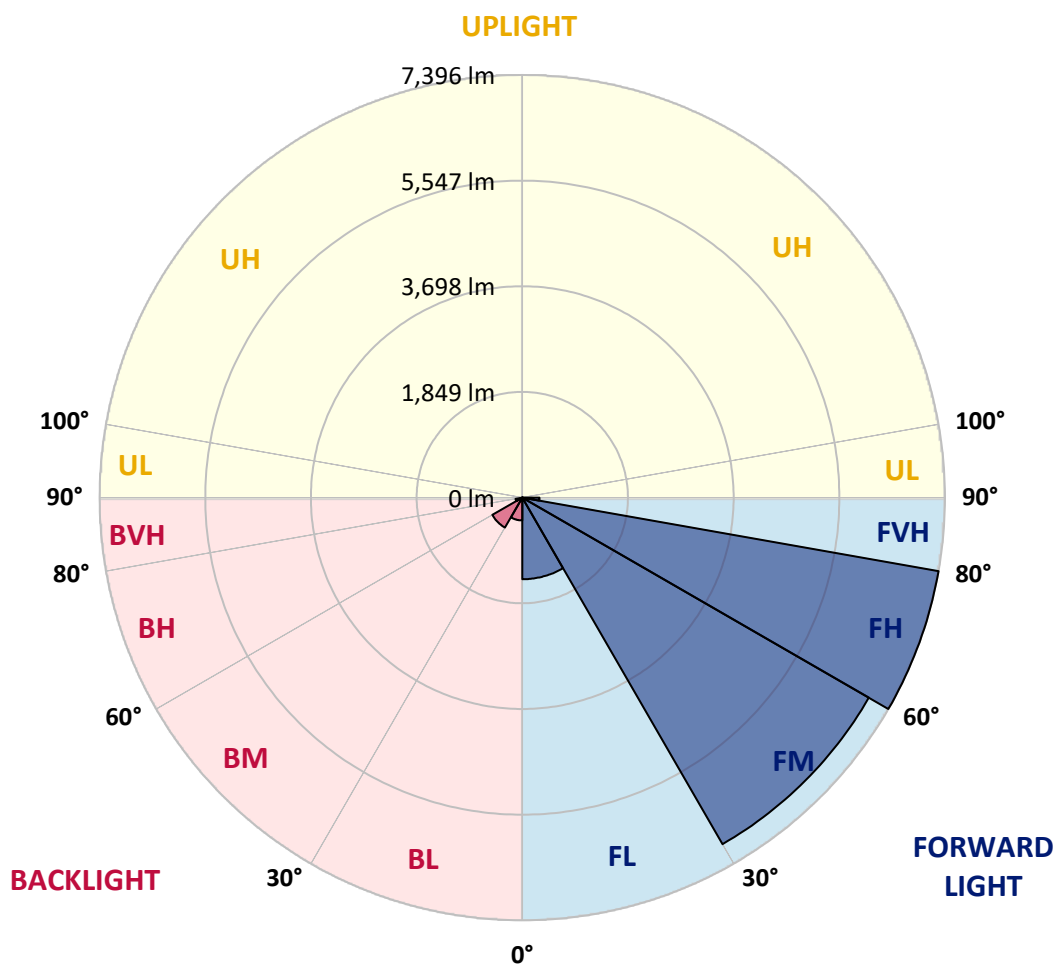
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.3	8.3			
FM (30°-60°)	7001.3	40.6			
FH (60°-80°)	7395.8	42.9			G3/7500
FVH (80°-90°)	299.9	1.7			G3/500
BL (0°-30°)	398.3	2.3	B1/500		
BM (30°-60°)	605.3	3.5	B1/1000		
BH (60°-80°)	119.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	3109.9	3099.4	3085.5	3069.3	3022.9	3014.8	2987.0	2927.9	2857.2	2799.2	2719.3
5°	3257.1	3262.9	3252.4	3223.5	3189.8	3170.1	3135.4	3043.8	2952.2	2835.2	2704.2
7.5°	3290.7	3302.3	3289.5	3261.7	3229.3	3208.4	3180.6	3101.8	2995.1	2861.8	2682.2
10°	3287.2	3301.1	3293.0	3267.5	3240.9	3221.1	3191.0	3128.4	3042.6	2902.4	2689.1
12.5°	3281.4	3300.0	3298.8	3286.1	3264.0	3249.0	3230.4	3174.8	3094.8	2961.5	2727.4
15°	3265.2	3288.4	3309.2	3319.7	3320.8	3320.8	3297.6	3238.5	3162.0	3039.2	2777.2
17.5°	3272.1	3298.8	3351.0	3381.1	3402.0	3399.6	3375.3	3311.6	3226.9	3119.1	2829.4
20°	3315.0	3351.0	3424.0	3484.3	3505.1	3498.2	3465.7	3391.5	3295.3	3187.5	2880.4
22.5°	3420.5	3453.0	3544.5	3615.2	3630.3	3611.8	3565.4	3464.6	3377.6	3261.7	2941.8
25°	3578.1	3616.4	3701.0	3754.3	3754.3	3743.9	3679.0	3560.8	3470.4	3364.9	3021.8
27.5°	3769.4	3801.9	3885.3	3932.8	3905.0	3874.9	3810.0	3667.4	3580.5	3494.7	3118.0
30°	3963.0	3983.8	4071.9	4092.8	4063.8	4025.6	3956.0	3813.4	3736.9	3670.9	3257.1
32.5°	4146.1	4191.3	4264.3	4259.7	4220.3	4201.7	4138.0	3986.2	3943.3	3936.3	3451.8
35°	4329.2	4364.0	4428.9	4445.2	4410.4	4406.9	4360.5	4248.1	4249.3	4294.5	3755.5
37.5°	4486.9	4518.2	4594.7	4630.6	4637.6	4655.0	4636.4	4562.2	4667.7	4791.7	4157.7
40°	4619.0	4663.1	4760.4	4823.0	4894.9	4958.6	4962.1	4978.3	5190.5	5403.7	4682.8
42.5°	4722.2	4783.6	4925.0	5040.9	5205.5	5286.7	5351.6	5440.8	5797.8	6116.6	5301.7
45°	4856.6	4927.3	5103.5	5285.5	5542.8	5676.1	5766.5	6005.3	6511.8	6946.5	5936.9
47.5°	5079.2	5116.3	5295.9	5561.4	5899.8	6089.9	6266.1	6627.7	7278.0	7667.5	6465.5
50°	5365.5	5389.8	5525.4	5894.0	6332.2	6582.5	6903.6	7329.0	8073.1	8265.6	6764.5
52.5°	5681.9	5690.0	5792.0	6260.3	6816.7	7132.0	7491.3	8016.4	8721.1	8692.1	6962.7
55°	6049.4	6037.8	6124.7	6657.9	7390.4	7750.9	8169.4	8719.9	9283.3	8994.6	7076.3
57.5°	6470.1	6438.8	6523.4	7185.3	8125.3	8556.5	8981.9	9327.3	9719.1	9248.5	7130.8
60°	6910.6	6848.0	6948.8	7777.6	8991.2	9400.3	9753.8	9846.6	10178.1	9450.2	7036.9
62.5°	7261.8	7262.9	7450.7	8408.1	9881.3	10239.5	10427.3	10510.7	10573.3	9406.1	6543.1
65°	7810.0	7828.6	8128.8	9283.3	10911.8	11222.4	11351.1	11079.9	10590.7	8859.0	5801.3
67.5°	8375.7	8434.8	8984.2	10488.7	12102.2	12352.6	12186.8	11190.0	10117.8	7610.7	4398.8
70°	8560.0	8657.3	9562.6	11318.6	12816.2	12946.0	12385.0	10676.5	8458.0	5088.5	2213.9
72.5°	7843.6	8001.3	9229.9	11016.1	12360.7	12248.2	11081.0	8954.1	5377.1	1932.2	675.8
75°	5531.2	5600.8	7670.9	9138.4	9941.6	9622.9	8429.0	5772.3	2211.6	542.5	231.8
77.5°	2856.0	2822.4	4562.2	6063.3	7090.2	6759.9	5519.6	2988.2	838.0	226.0	143.7
80°	1476.7	1501.0	1974.0	3177.1	4328.1	3982.7	2943.0	1385.1	446.3	125.2	110.1
82.5°	827.6	776.6	1134.8	1387.4	2023.8	1586.8	1129.0	980.6	194.7	75.3	104.3
85°	150.7	157.6	622.4	749.9	702.4	446.3	364.0	654.9	56.8	41.7	73.0
87.5°	2.3	2.3	120.5	215.6	136.8	62.6	114.8	93.9	11.6	16.2	12.8
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°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	2678.7	2634.6	2552.3	2471.2	2368.0	2283.4	2226.6	2167.5	2107.2	2111.9	2125.8
5°	2632.3	2555.8	2393.5	2222.0	2057.4	1909.0	1763.0	1632.0	1578.7	1530.0	1532.3
7.5°	2586.0	2478.2	2240.5	1971.6	1722.4	1469.7	1286.6	1135.9	1055.9	995.7	978.3
10°	2565.1	2422.5	2100.3	1730.5	1377.0	1101.1	865.8	743.0	647.9	617.8	625.9
12.5°	2574.4	2394.7	1974.0	1512.6	1091.9	767.3	602.7	540.1	519.3	515.8	513.5
15°	2591.8	2375.0	1849.9	1271.5	802.1	570.3	506.5	494.9	492.6	490.3	491.5
17.5°	2614.9	2357.6	1717.8	1045.5	615.5	498.4	479.9	474.1	472.9	472.9	472.9
20°	2638.1	2337.9	1570.6	843.8	513.5	470.6	459.0	455.5	454.4	454.4	453.2
22.5°	2664.8	2320.5	1421.1	663.0	472.9	450.9	440.5	438.1	437.0	435.8	435.8
25°	2703.0	2298.5	1262.3	542.5	447.4	432.3	421.9	419.6	418.4	413.8	415.0
27.5°	2754.0	2282.3	1098.8	468.3	424.2	409.2	402.2	398.7	396.4	392.9	394.1
30°	2823.6	2268.4	925.0	427.7	397.6	384.8	377.9	375.5	373.2	369.8	369.8
32.5°	2944.1	2274.2	741.8	395.3	373.2	358.2	351.2	348.9	346.6	343.1	343.1
35°	3124.9	2307.8	593.5	367.4	344.3	329.2	322.2	322.2	318.8	314.1	313.0
37.5°	3420.5	2393.5	476.4	340.8	316.4	302.5	294.4	292.1	288.6	281.7	280.5
40°	3769.4	2526.8	401.0	314.1	290.9	277.0	270.1	263.1	253.8	246.9	245.7
42.5°	4207.5	2663.6	347.7	287.5	266.6	253.8	245.7	234.1	220.2	211.0	209.8
45°	4664.2	2788.8	311.8	263.1	243.4	233.0	223.7	205.2	187.8	176.2	175.0
47.5°	5005.0	2812.0	282.8	239.9	223.7	213.3	200.5	177.3	154.2	143.7	140.3
50°	5166.1	2699.5	252.7	216.8	204.0	192.4	176.2	149.5	124.0	111.3	109.0
52.5°	5222.9	2504.8	228.3	195.9	184.3	170.4	150.7	120.5	97.4	84.6	83.5
55°	5199.7	2259.1	206.3	176.2	161.1	144.9	125.2	96.2	71.9	61.4	59.1
57.5°	5078.0	1946.1	184.3	156.5	137.9	121.7	99.7	71.9	48.7	39.4	38.3
60°	4750.0	1519.6	162.3	134.5	117.1	99.7	78.8	51.0	30.1	22.0	22.0
62.5°	4196.0	1127.8	141.4	112.4	98.5	80.0	55.6	32.5	16.2	11.6	10.4
65°	3506.3	832.2	118.2	95.0	82.3	62.6	39.4	19.7	8.1	3.5	2.3
67.5°	2446.9	513.5	98.5	77.7	67.2	45.2	24.3	8.1	3.5	0.0	0.0
70°	1111.6	244.6	75.3	59.1	51.0	32.5	12.8	4.6	2.3	0.0	0.0
72.5°	345.4	128.7	53.3	42.9	34.8	20.9	7.0	3.5	2.3	0.0	0.0
75°	160.0	82.3	33.6	23.2	19.7	10.4	4.6	2.3	1.2	0.0	0.0
77.5°	119.4	63.8	19.7	12.8	10.4	7.0	3.5	2.3	1.2	0.0	0.0
80°	104.3	32.5	11.6	8.1	5.8	4.6	2.3	1.2	0.0	0.0	0.0
82.5°	93.9	16.2	7.0	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0
85°	51.0	9.3	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.3	4.6	3.5	2.3	2.3	1.2	1.2	1.2	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)