

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: P651910

Luminaire Tested: **GALN-SA5A-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14397.9 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

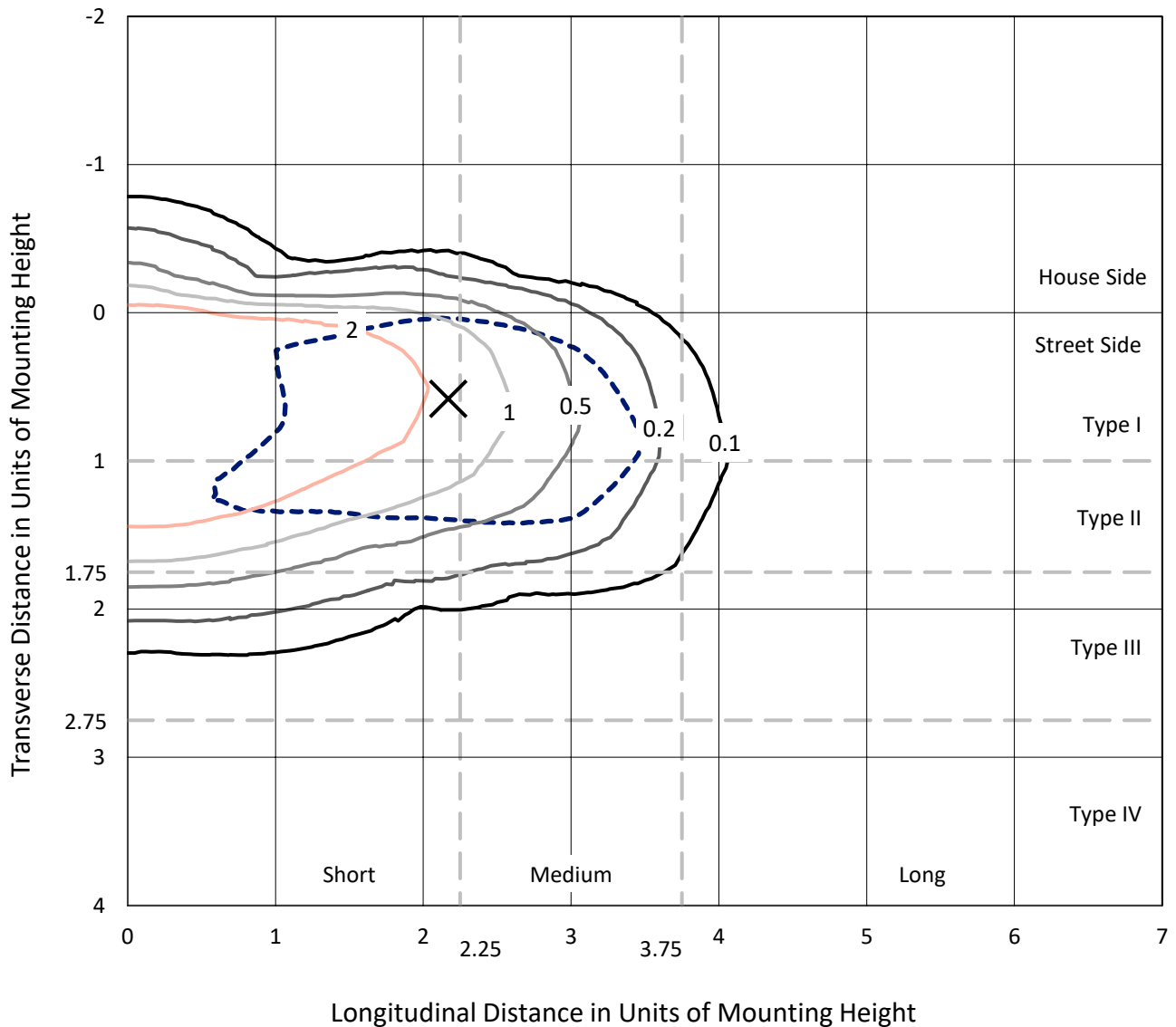
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

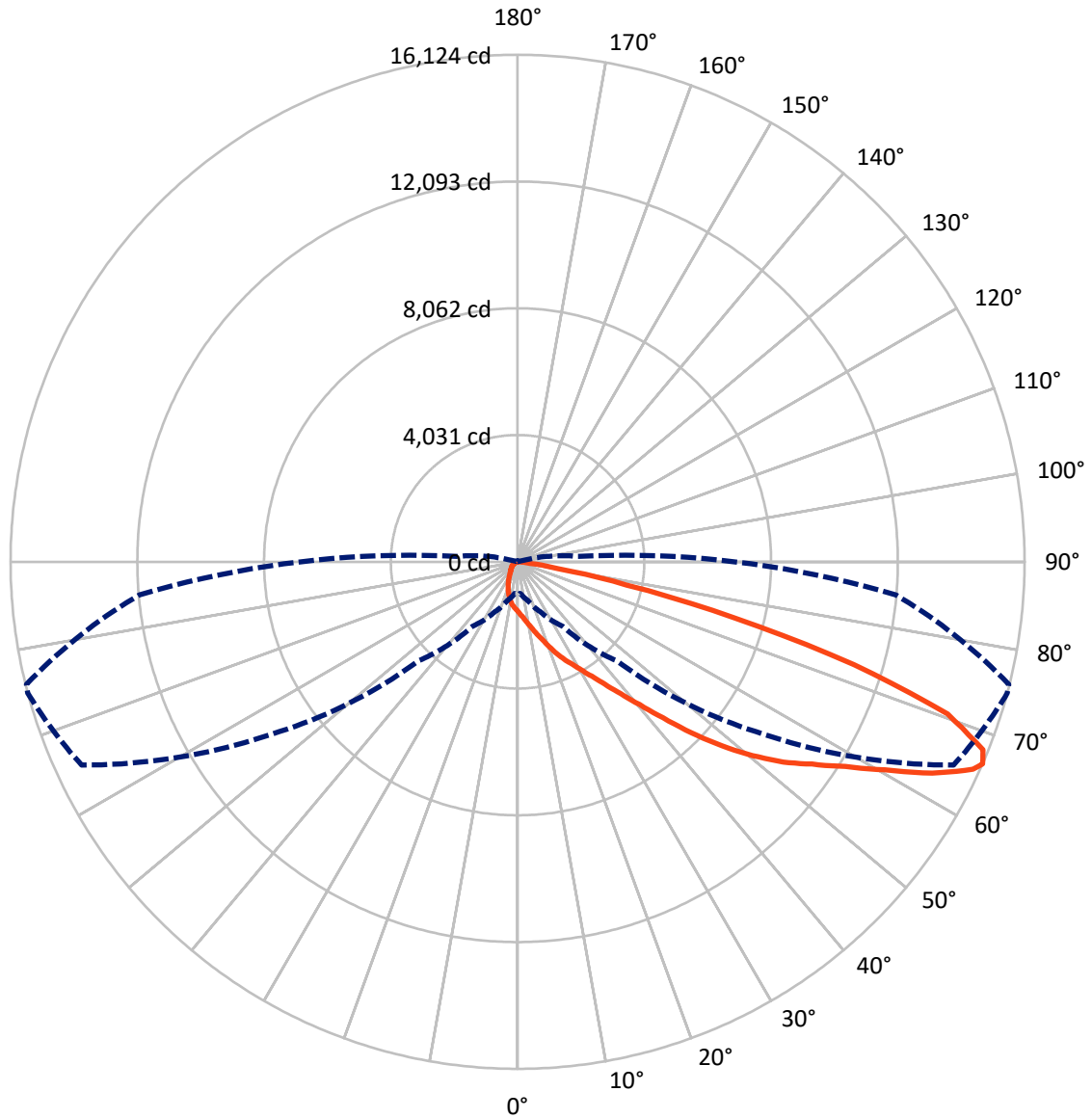
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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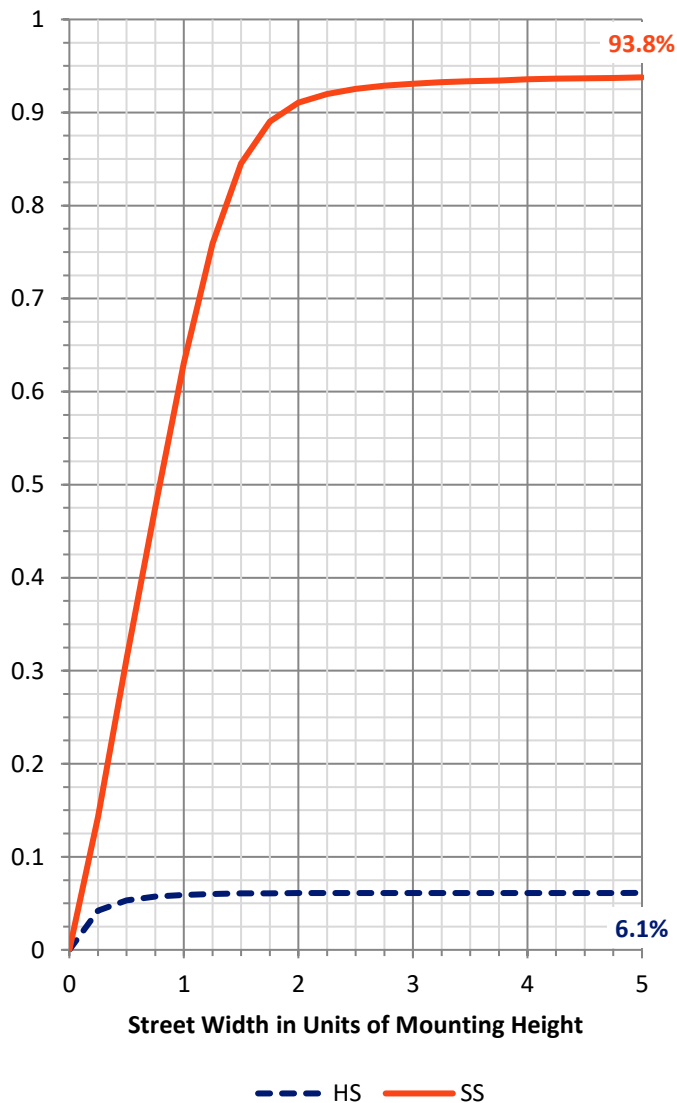
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	888.9	0.0	888.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	13509.1	0.0	13509.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	14397.9	0.0	14397.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	1.1
10°-20°	447.0	3.1
20°-30°	771.8	5.4
30°-40°	1392.2	9.7
40°-50°	2515.0	17.5
50°-60°	3920.9	27.2
60°-70°	3724.7	25.9
70°-80°	1395.9	9.7
80°-90°	78.8	0.5
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°	14397.9	100.0
0°-180°	14397.9	100.0

**Coefficient of Utilization**

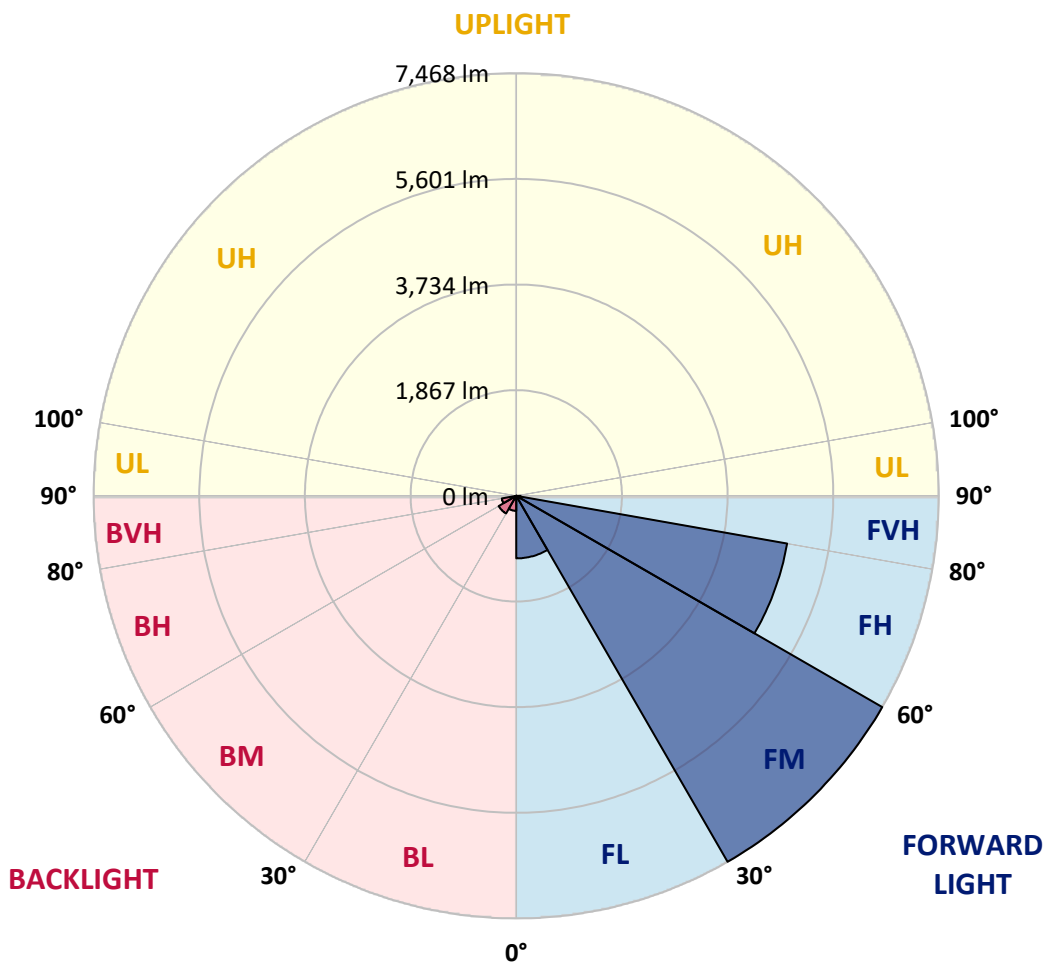


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.2	7.7			
FM (30°-60°)	7468.2	51.9			
FH (60°-80°)	4861.0	33.8			G2/5000
FVH (80°-90°)	74.7	0.5			G1/100
BL (0°-30°)	265.5	1.8	B1/500		
BM (30°-60°)	359.8	2.5	B1/1000		
BH (60°-80°)	259.6	1.8	B1/500		G1/500
BVH (80°-90°)	4.1	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5
2.5°	1881.1	1857.8	1865.2	1854.6	1830.1	1793.9	1761.9	1716.1	1670.4	1662.9	1611.8
5°	2129.2	2122.9	2114.3	2083.4	2066.4	2011.1	1945.1	1866.3	1771.5	1754.5	1661.8
7.5°	2298.5	2295.3	2299.5	2283.6	2268.7	2218.6	2148.4	2040.9	1893.9	1884.3	1730.0
10°	2353.9	2362.4	2378.3	2403.9	2427.3	2411.3	2358.1	2223.9	2052.5	2024.9	1807.7
12.5°	2321.9	2331.5	2369.9	2438.0	2513.6	2557.2	2535.9	2438.0	2220.7	2198.4	1895.0
15°	2239.9	2251.6	2305.9	2411.3	2546.5	2670.0	2723.2	2653.0	2416.7	2380.5	2000.4
17.5°	2118.6	2135.6	2213.3	2352.8	2538.1	2750.9	2901.0	2877.6	2625.3	2591.3	2115.4
20°	2027.0	2039.8	2105.8	2265.5	2501.8	2795.7	3070.3	3136.3	2882.9	2824.4	2250.6
22.5°	2087.7	2092.0	2114.3	2210.1	2436.9	2807.3	3219.3	3405.7	3156.5	3104.4	2391.1
25°	2384.7	2342.1	2319.8	2298.5	2423.1	2796.7	3354.6	3686.8	3429.1	3373.8	2530.6
27.5°	2853.2	2834.0	2721.1	2569.9	2541.2	2810.5	3444.0	3952.9	3685.7	3626.1	2666.8
30°	3363.1	3330.1	3260.9	3039.5	2816.9	2908.5	3509.0	4211.6	3989.1	3910.3	2791.4
32.5°	3831.5	3852.8	3749.5	3521.7	3264.1	3117.2	3593.1	4493.7	4337.2	4239.2	2936.2
35°	4377.7	4420.2	4261.6	4043.4	3742.1	3494.0	3757.0	4812.0	4779.0	4655.5	3159.7
37.5°	4932.3	4957.9	4861.0	4554.4	4282.9	3973.1	4065.7	5204.9	5323.0	5217.6	3427.0
40°	5398.6	5433.8	5362.5	5089.9	4800.3	4527.8	4513.9	5632.8	5970.3	5861.8	3825.1
42.5°	5755.3	5781.9	5784.0	5591.3	5330.5	5207.0	5085.6	6179.0	6781.6	6655.9	4287.2
45°	6205.6	6243.9	6221.5	6090.6	5895.8	5873.5	5810.6	6839.0	7752.5	7593.8	4886.5
47.5°	6901.8	6927.4	6872.1	6717.7	6519.7	6554.8	6517.5	7578.9	8742.5	8606.3	5507.2
50°	7385.2	7427.8	7506.5	7568.3	7424.6	7294.7	7184.0	8269.9	9682.6	9560.2	6141.7
52.5°	7379.9	7450.2	7699.3	8010.1	8324.1	8284.8	7966.5	9033.2	10580.0	10428.9	6737.9
55°	6882.7	7019.0	7385.2	7936.7	8806.4	9239.7	9094.9	9916.8	11355.1	11252.9	7428.8
57.5°	5856.4	5939.5	6448.4	7219.1	8537.1	9689.0	10402.2	11114.5	12284.5	12236.6	8501.9
60°	3939.1	3976.3	4631.1	5583.9	7268.1	9240.8	11360.4	12563.4	13429.0	13405.5	9755.0
62.5°	2257.0	2273.0	2747.7	3551.5	5171.9	7831.2	11441.3	14350.9	14801.3	14814.0	11205.0
65°	1214.7	1223.2	1606.5	2084.5	3147.0	5581.7	10288.4	15330.3	15910.5	15935.0	12103.5
66°	1048.6	1008.2	1278.6	1776.9	2504.0	4442.6	9559.1	15295.2	16123.5	16096.9	12071.5
67.5°	797.4	833.6	1021.0	1365.9	1855.6	3158.7	7891.9	14614.9	15961.7	15878.6	11580.8
70°	570.6	585.5	727.1	974.1	1263.7	1733.2	5043.1	12138.7	14507.4	14395.6	10089.3
72.5°	368.4	384.3	515.3	704.8	913.4	946.5	2823.3	8770.2	11184.8	11168.8	7598.1
75°	263.0	277.9	340.7	504.6	686.7	585.5	1359.5	5910.7	7110.5	7062.6	4700.3
77.5°	190.6	198.1	227.8	330.0	490.8	419.5	630.2	3156.5	3539.9	3707.0	2077.0
80°	109.7	116.1	158.6	201.3	332.2	286.4	301.2	1266.9	1306.2	1243.5	649.4
82.5°	54.3	61.7	94.8	137.3	207.6	192.7	138.4	381.1	402.4	391.7	163.9
85°	12.8	16.0	53.2	90.5	101.2	86.2	67.1	111.8	138.4	135.2	62.8
87.5°	1.1	2.1	19.2	16.0	17.1	28.8	23.4	28.8	44.7	41.5	22.4
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°	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5
2.5°	1588.4	1568.1	1509.6	1452.2	1404.2	1354.2	1308.4	1281.8	1271.2	1259.4	1264.8
5°	1610.8	1561.8	1443.6	1341.4	1241.3	1156.1	1088.0	1044.4	1023.1	1019.9	1014.6
7.5°	1640.5	1556.4	1373.4	1213.6	1082.7	987.9	910.2	847.4	828.3	811.2	797.4
10°	1676.8	1546.9	1286.1	1079.5	940.1	820.8	718.6	644.1	605.8	595.1	602.6
12.5°	1715.1	1528.8	1194.5	956.0	795.2	643.0	548.2	511.0	500.4	496.1	497.2
15°	1753.4	1506.4	1098.7	836.8	633.4	513.2	469.5	459.9	455.7	453.6	451.4
17.5°	1788.6	1470.2	991.1	720.7	513.2	438.6	422.7	414.1	405.6	402.4	397.1
20°	1830.1	1428.7	894.2	590.9	434.4	397.1	377.9	362.0	349.2	340.7	339.6
22.5°	1869.5	1375.5	793.1	489.7	396.0	356.7	325.8	308.7	293.8	283.2	286.4
25°	1890.7	1310.5	702.7	426.9	360.9	316.2	282.2	260.8	244.9	239.5	238.5
27.5°	1890.7	1230.7	614.3	390.7	329.0	280.0	244.9	224.6	214.0	206.5	207.6
30°	1875.9	1142.3	532.3	363.1	301.2	248.1	215.0	197.0	188.5	183.1	182.1
32.5°	1864.2	1058.2	462.0	336.4	272.6	220.3	191.7	177.8	169.3	163.9	163.9
35°	1882.2	985.8	407.7	309.8	245.9	199.1	173.5	160.7	152.2	148.0	146.9
37.5°	1930.1	919.8	366.3	281.1	221.4	181.0	160.7	145.8	137.3	132.0	129.9
40°	2048.3	882.5	335.4	254.4	198.1	166.1	145.8	132.0	121.4	116.1	115.0
42.5°	2237.8	883.6	305.5	229.9	179.9	153.3	133.0	117.1	105.4	100.1	99.0
45°	2523.1	924.1	282.2	206.5	163.9	139.4	119.3	102.2	91.6	86.2	86.2
47.5°	2864.9	1002.9	261.9	186.3	149.0	126.7	105.4	88.4	77.7	73.4	73.4
50°	3235.3	1105.1	241.7	165.0	136.2	112.9	90.5	76.6	68.1	64.9	64.9
52.5°	3613.3	1228.5	221.4	148.0	122.4	98.0	77.7	68.1	60.7	58.5	57.5
55°	4109.4	1386.1	200.2	129.9	107.6	84.1	69.2	59.6	51.1	47.9	46.8
57.5°	4872.7	1623.6	176.7	113.9	88.4	70.2	59.6	50.0	40.5	35.2	34.1
60°	5793.6	1913.1	152.2	100.1	71.3	57.5	47.9	38.3	29.8	23.4	22.4
62.5°	6655.9	2097.3	128.8	84.1	56.4	43.6	34.1	28.8	21.3	14.9	13.9
65°	7037.1	2035.6	106.5	68.1	44.7	30.9	22.4	20.3	12.8	6.4	5.3
66°	6910.3	1944.0	98.0	61.7	40.5	26.6	19.2	17.1	9.6	3.2	3.2
67.5°	6536.7	1727.8	85.2	53.2	35.2	21.3	14.9	12.8	5.3	1.1	0.0
70°	5600.9	1397.8	67.1	39.4	25.6	14.9	8.5	6.4	3.2	0.0	0.0
72.5°	4302.1	1041.2	53.2	29.8	18.1	8.5	4.3	2.1	3.2	0.0	0.0
75°	2635.9	595.1	41.5	22.4	11.7	5.3	3.2	0.0	3.2	1.1	0.0
77.5°	1170.0	267.2	27.7	14.9	8.5	4.3	2.1	0.0	2.1	1.1	0.0
80°	295.9	87.3	16.0	10.7	6.4	3.2	1.1	0.0	2.1	2.1	1.1
82.5°	80.9	32.0	11.7	8.5	5.3	3.2	1.1	0.0	2.1	2.1	2.1
85°	32.0	14.9	10.7	8.5	6.4	3.2	1.1	0.0	2.1	2.1	2.1
87.5°	14.9	10.7	10.7	9.6	7.5	3.2	1.1	0.0	2.1	1.1	2.1
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)