

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: P652612

Luminaire Tested: **GALN-SA9B-840-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652612  
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-SA9B-840-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 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: 35685.3 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

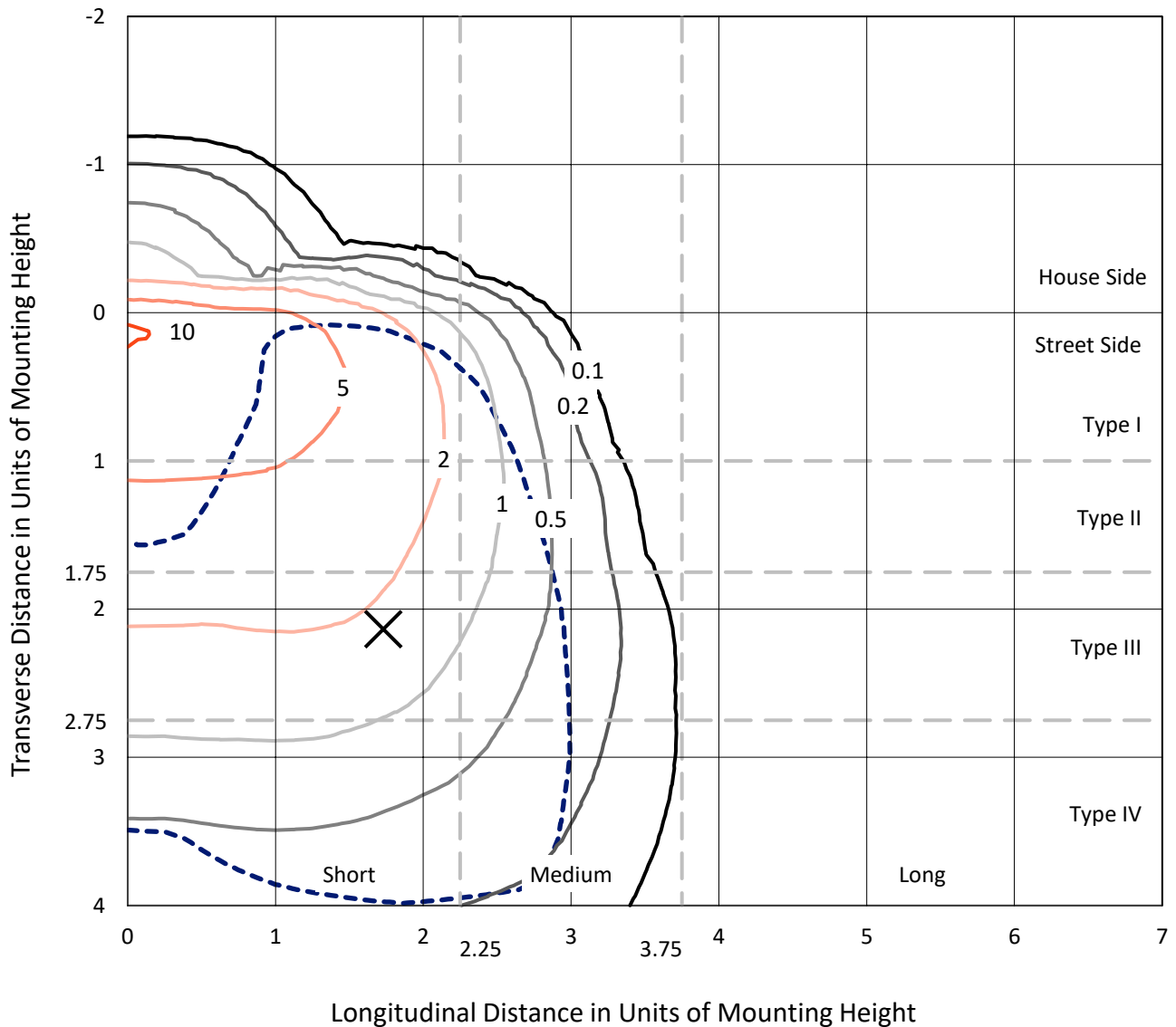
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

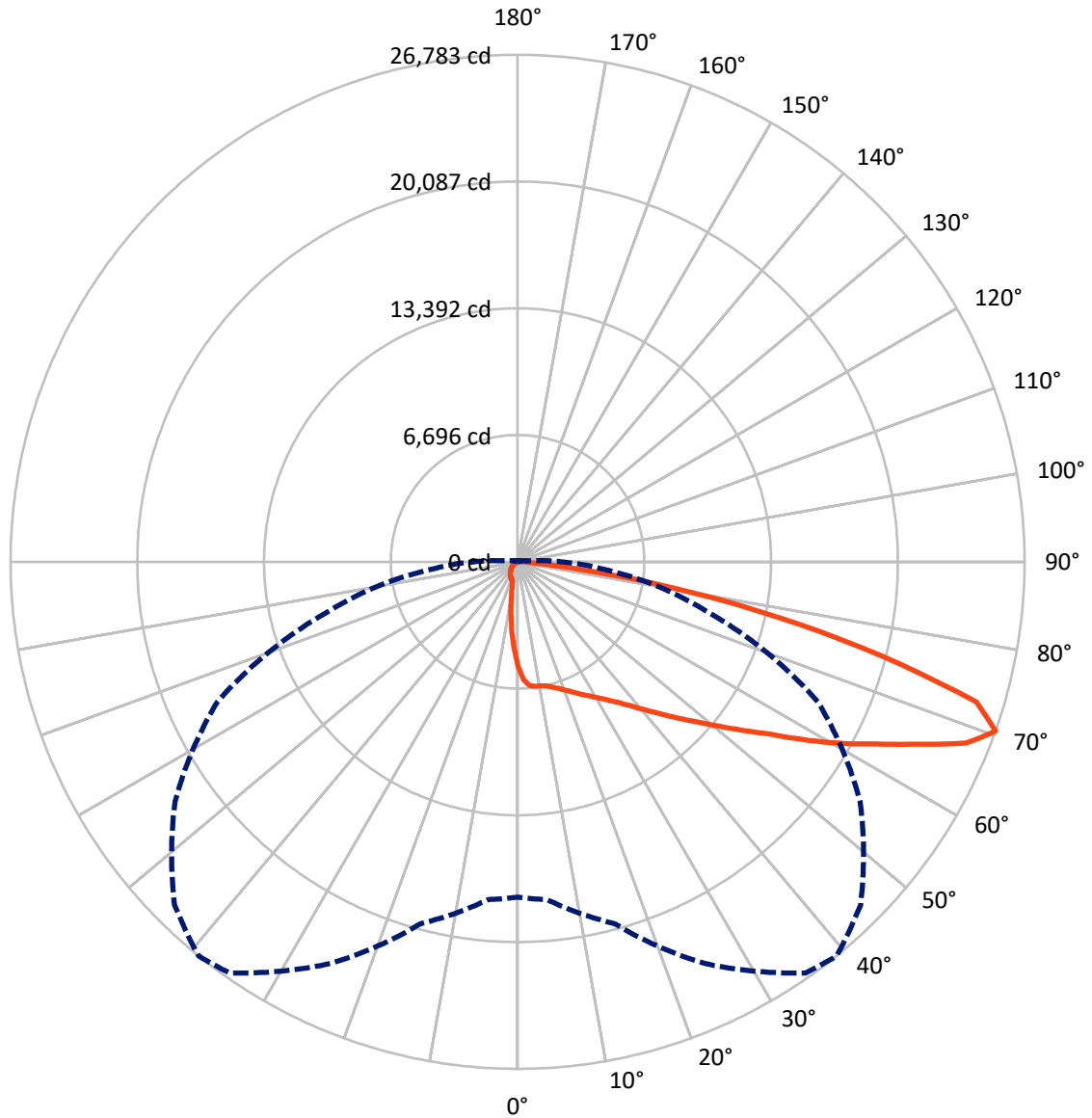
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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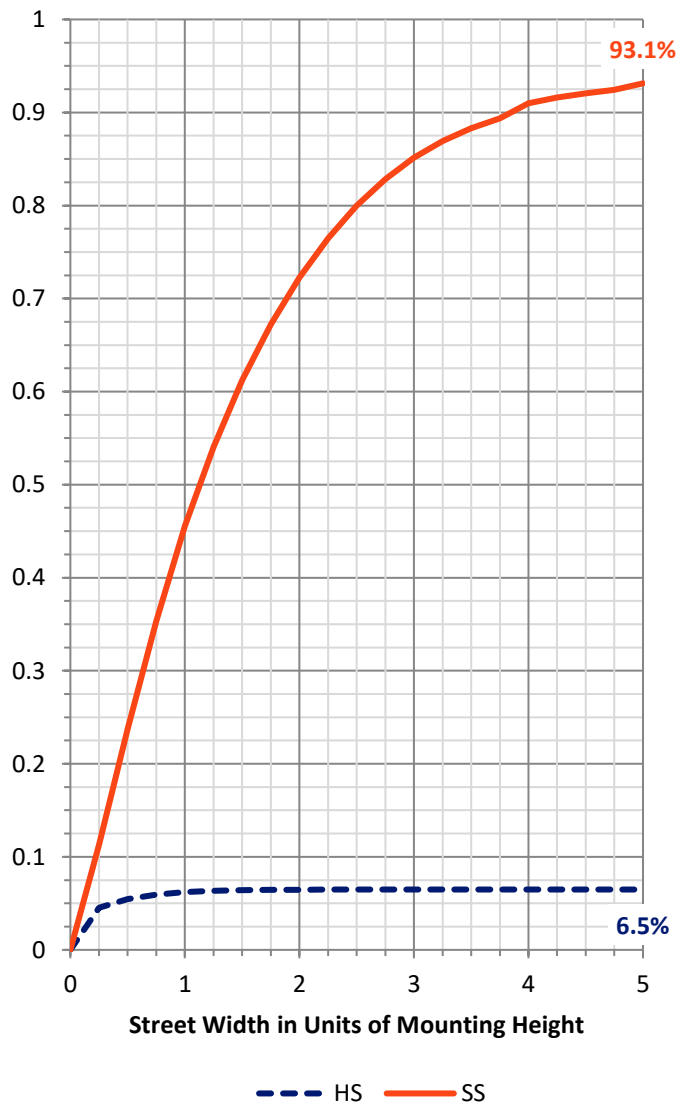
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2326.9	0.0	2326.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	33358.5	0.0	33358.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	35685.3	0.0	35685.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.9	1.3
10°-20°	1234.2	3.5
20°-30°	2067.6	5.8
30°-40°	3206.6	9.0
40°-50°	5081.5	14.2
50°-60°	7448.7	20.9
60°-70°	9547.5	26.8
70°-80°	5999.3	16.8
80°-90°	625.0	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°	35685.3	100.0
0°-180°	35685.3	100.0

**Coefficient of Utilization**

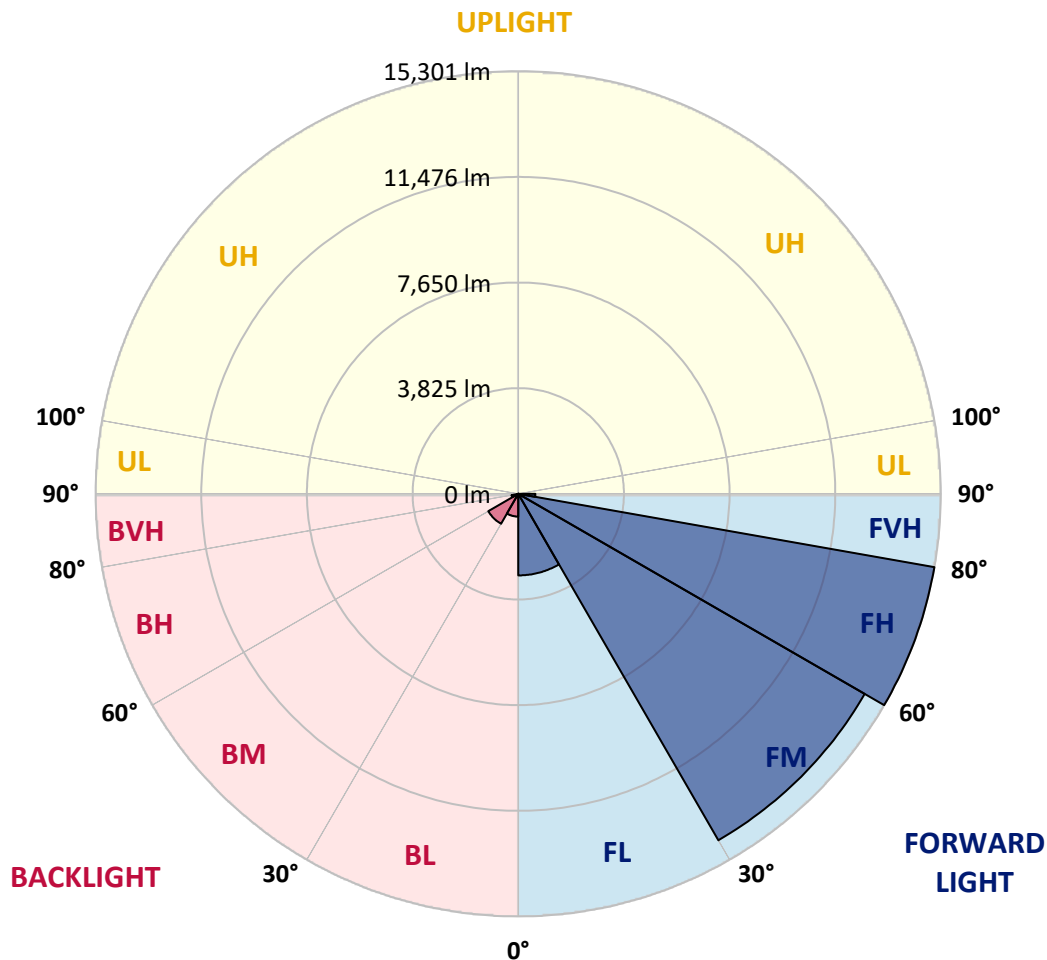


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2952.8	8.3			
FM (30°-60°)	14484.6	40.6			
FH (60°-80°)	15300.7	42.9			G5
FVH (80°-90°)	620.4	1.7			G4/750
BL (0°-30°)	823.9	2.3	B2/1000		
BM (30°-60°)	1252.2	3.5	B2/2500		
BH (60°-80°)	246.1	0.7	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1
2.5°	6433.8	6412.2	6383.4	6349.9	6253.9	6237.2	6179.6	6057.3	5911.1	5791.1	5625.7
5°	6738.3	6750.4	6728.8	6668.8	6599.2	6558.5	6486.5	6297.2	6107.7	5865.5	5594.5
7.5°	6807.9	6831.9	6805.5	6747.9	6680.8	6637.7	6580.1	6417.0	6196.4	5920.6	5548.9
10°	6800.7	6829.5	6812.7	6760.0	6704.8	6664.0	6601.7	6472.2	6294.7	6004.6	5563.3
12.5°	6788.7	6827.1	6824.7	6798.3	6752.7	6721.5	6683.2	6568.1	6402.6	6126.9	5642.4
15°	6755.2	6803.1	6846.2	6867.9	6870.2	6870.2	6822.3	6700.0	6541.7	6287.6	5745.5
17.5°	6769.5	6824.7	6932.6	6994.9	7038.1	7033.3	6982.9	6851.0	6676.0	6453.0	5853.5
20°	6858.3	6932.6	7083.7	7208.4	7251.5	7237.1	7170.0	7016.5	6817.5	6594.4	5959.0
22.5°	7076.5	7143.6	7333.0	7479.3	7510.5	7472.1	7376.2	7167.6	6987.7	6747.9	6086.1
25°	7402.6	7481.7	7656.8	7767.1	7767.1	7745.5	7611.2	7366.7	7179.6	6961.4	6251.6
27.5°	7798.3	7865.4	8038.0	8136.3	8078.8	8016.5	7882.2	7587.2	7407.4	7229.9	6450.6
30°	8198.7	8241.9	8424.1	8467.3	8407.4	8328.3	8184.4	7889.4	7731.1	7594.4	6738.3
32.5°	8577.6	8671.1	8822.2	8812.6	8731.1	8692.7	8560.8	8246.7	8158.0	8143.6	7141.2
35°	8956.5	9028.5	9162.7	9196.3	9124.3	9117.2	9021.2	8788.6	8791.1	8884.6	7769.5
37.5°	9282.6	9347.4	9505.7	9580.0	9594.4	9630.3	9591.9	9438.5	9656.7	9913.3	8601.6
40°	9556.0	9647.1	9848.5	9978.0	10126.7	10258.6	10265.8	10299.4	10738.2	11179.4	9687.9
42.5°	9769.4	9896.5	10189.1	10428.8	10769.3	10937.2	11071.5	11256.2	11994.8	12654.2	10968.4
45°	10047.6	10193.8	10558.3	10934.9	11467.2	11743.0	11930.0	12424.0	13471.9	14371.2	12282.5
47.5°	10508.0	10584.7	10956.4	11505.6	12205.8	12599.0	12963.5	13711.7	15057.0	15862.7	13376.0
50°	11100.3	11150.7	11431.2	12193.7	13100.3	13618.1	14282.5	15162.5	16702.0	17100.1	13994.7
52.5°	11754.9	11771.7	11982.7	12951.6	14102.6	14754.8	15498.2	16584.5	18042.5	17982.5	14404.7
55°	12515.1	12491.1	12671.0	13774.1	15289.5	16035.3	16901.1	18040.0	19205.5	18608.4	14639.7
57.5°	13385.6	13320.9	13495.9	14865.2	16809.9	17702.0	18582.1	19296.7	20107.1	19133.6	14752.4
60°	14296.8	14167.3	14376.0	16090.5	18601.2	19447.7	20179.1	20371.0	21056.8	19550.8	14558.2
62.5°	15023.4	15025.8	15414.3	17395.0	20442.9	21183.9	21572.3	21745.0	21874.5	19459.6	13536.7
65°	16157.6	16196.1	16817.1	19205.5	22574.7	23217.3	23483.5	22922.4	21910.4	18327.8	12001.9
67.5°	17327.9	17450.2	18586.9	21699.4	25037.4	25555.4	25212.5	23150.2	20932.1	15745.2	9100.4
70°	17709.2	17910.6	19783.4	23416.4	26514.5	26783.2	25622.5	22087.9	17498.1	10527.2	4580.2
72.5°	16227.2	16553.3	19095.2	22790.5	25572.2	25339.6	22924.8	18524.5	11124.2	3997.4	1398.0
75°	11443.2	11587.0	15869.9	18905.8	20567.6	19908.2	17438.2	11942.0	4575.4	1122.2	479.6
77.5°	5908.6	5839.1	9438.5	12543.9	14668.5	13985.1	11419.3	6182.0	1733.7	467.6	297.4
80°	3055.0	3105.4	4083.8	6572.9	8954.1	8239.5	6088.5	2865.6	923.2	258.9	227.8
82.5°	1712.2	1606.6	2347.7	2870.4	4186.9	3282.8	2335.6	2028.7	402.8	155.8	215.8
85°	311.8	326.1	1287.7	1551.5	1453.2	923.2	752.9	1354.9	117.5	86.3	151.0
87.5°	4.8	4.8	249.4	446.1	283.0	129.5	237.4	194.3	24.0	33.6	26.4
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°	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1	5568.1
2.5°	5541.8	5450.6	5280.4	5112.5	4899.1	4724.1	4606.6	4484.2	4359.6	4369.2	4397.9
5°	5445.8	5287.5	4951.8	4596.9	4256.5	3949.5	3647.3	3376.4	3266.0	3165.4	3170.1
7.5°	5349.9	5126.9	4635.3	4079.0	3563.4	3040.6	2661.8	2350.0	2184.6	2059.9	2023.9
10°	5306.7	5011.8	4345.2	3580.2	2848.8	2278.1	1791.3	1537.1	1340.5	1278.2	1294.9
12.5°	5326.0	4954.2	4083.8	3129.4	2258.9	1587.5	1247.0	1117.4	1074.3	1067.1	1062.4
15°	5361.9	4913.5	3827.2	2630.6	1659.4	1179.8	1047.9	1023.9	1019.1	1014.3	1016.8
17.5°	5409.9	4877.5	3553.8	2163.0	1273.4	1031.2	992.8	980.8	978.4	978.4	978.4
20°	5457.8	4836.8	3249.3	1745.7	1062.4	973.6	949.6	942.4	940.0	940.0	937.6
22.5°	5513.0	4800.8	2940.0	1371.7	978.4	932.8	911.2	906.4	904.1	901.6	901.6
25°	5592.1	4755.2	2611.4	1122.2	925.6	894.5	872.9	868.1	865.6	856.1	858.5
27.5°	5697.6	4721.6	2273.3	968.7	877.7	846.5	832.1	824.9	820.1	812.9	815.3
30°	5841.5	4692.9	1913.6	884.9	822.5	796.2	781.7	776.9	772.1	765.0	765.0
32.5°	6090.9	4704.9	1534.7	817.7	772.1	741.0	726.6	721.8	717.0	709.8	709.8
35°	6465.0	4774.4	1227.8	760.2	712.2	681.0	666.7	666.7	659.4	649.8	647.5
37.5°	7076.5	4951.8	985.6	705.0	654.6	625.9	609.1	604.3	597.1	582.7	580.3
40°	7798.3	5227.7	829.7	649.8	601.9	573.1	558.8	544.4	525.1	510.7	508.4
42.5°	8704.7	5510.6	719.4	594.7	551.5	525.1	508.4	484.4	455.7	436.4	434.0
45°	9649.5	5769.6	645.0	544.4	503.6	482.0	462.8	424.5	388.5	364.5	362.1
47.5°	10354.6	5817.5	585.1	496.4	462.8	441.2	414.9	366.9	318.9	297.4	290.1
50°	10687.8	5584.9	522.8	448.4	422.0	398.0	364.5	309.3	256.6	230.2	225.4
52.5°	10805.3	5182.1	472.4	405.3	381.3	352.5	311.8	249.4	201.4	175.0	172.7
55°	10757.4	4673.7	426.8	364.5	333.3	299.7	258.9	199.1	148.7	127.1	122.3
57.5°	10505.6	4026.2	381.3	323.7	285.4	251.8	206.2	148.7	100.8	81.5	79.1
60°	9827.0	3143.7	335.7	278.2	242.2	206.2	163.1	105.5	62.3	45.6	45.6
62.5°	8680.7	2333.3	292.6	232.6	203.9	165.4	115.1	67.1	33.6	24.0	21.6
65°	7254.0	1721.8	244.6	196.6	170.2	129.5	81.5	40.8	16.8	7.2	4.8
67.5°	5062.1	1062.4	203.9	160.6	139.1	93.5	50.4	16.8	7.2	0.0	0.0
70°	2299.6	505.9	155.8	122.3	105.5	67.1	26.4	9.6	4.8	0.0	0.0
72.5°	714.6	266.2	110.3	88.7	71.9	43.1	14.4	7.2	4.8	0.0	0.0
75°	330.9	170.2	69.6	47.9	40.8	21.6	9.6	4.8	2.4	0.0	0.0
77.5°	247.0	131.9	40.8	26.4	21.6	14.4	7.2	4.8	2.4	0.0	0.0
80°	215.8	67.1	24.0	16.8	12.0	9.6	4.8	2.4	0.0	0.0	0.0
82.5°	194.3	33.6	14.4	9.6	7.2	4.8	2.4	2.4	0.0	0.0	0.0
85°	105.5	19.2	9.6	7.2	4.8	2.4	2.4	0.0	0.0	0.0	0.0
87.5°	19.2	9.6	7.2	4.8	4.8	2.4	2.4	2.4	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)