

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: P652082

Luminaire Tested: **GALN-SA8A-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26478 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

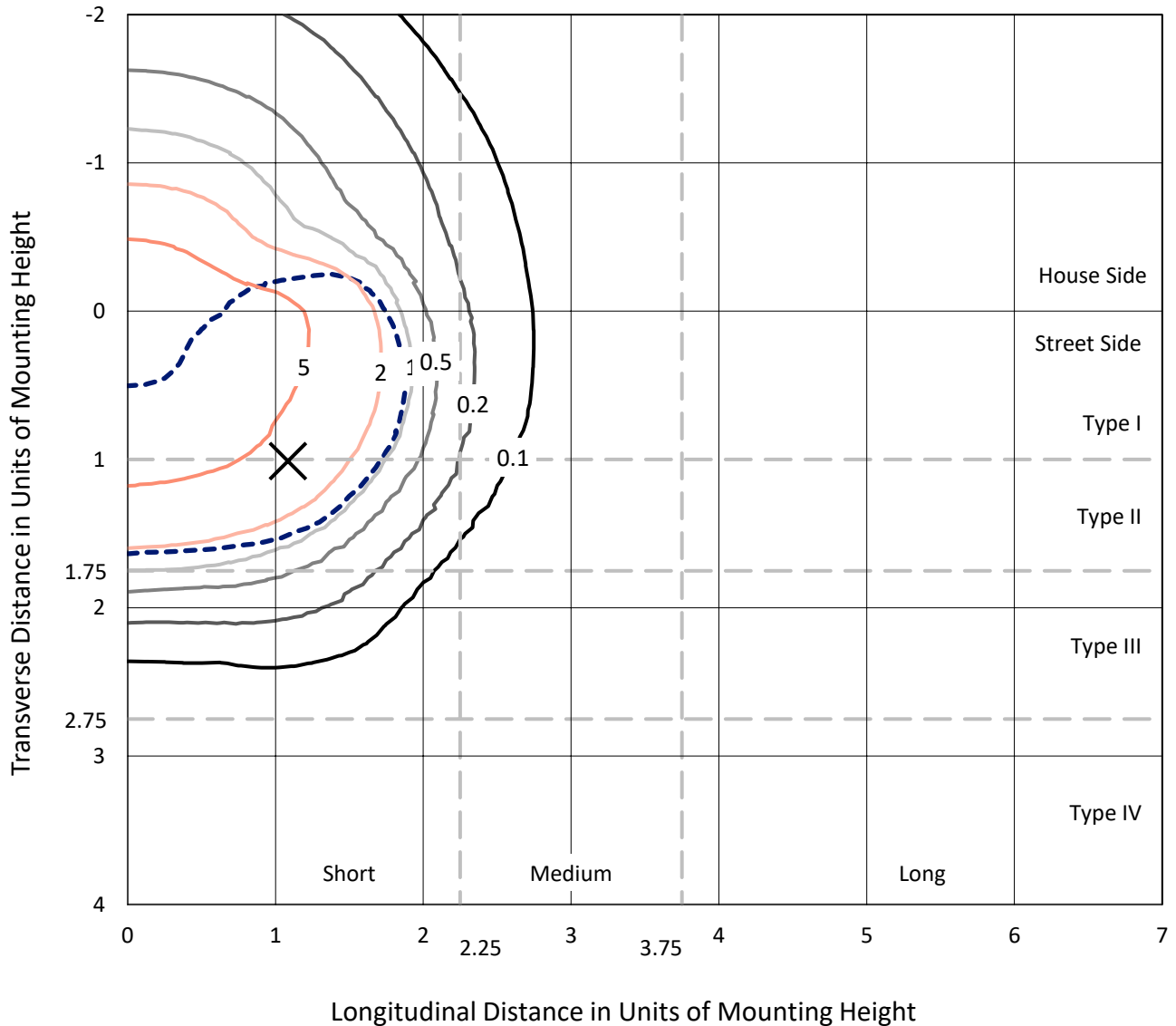
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

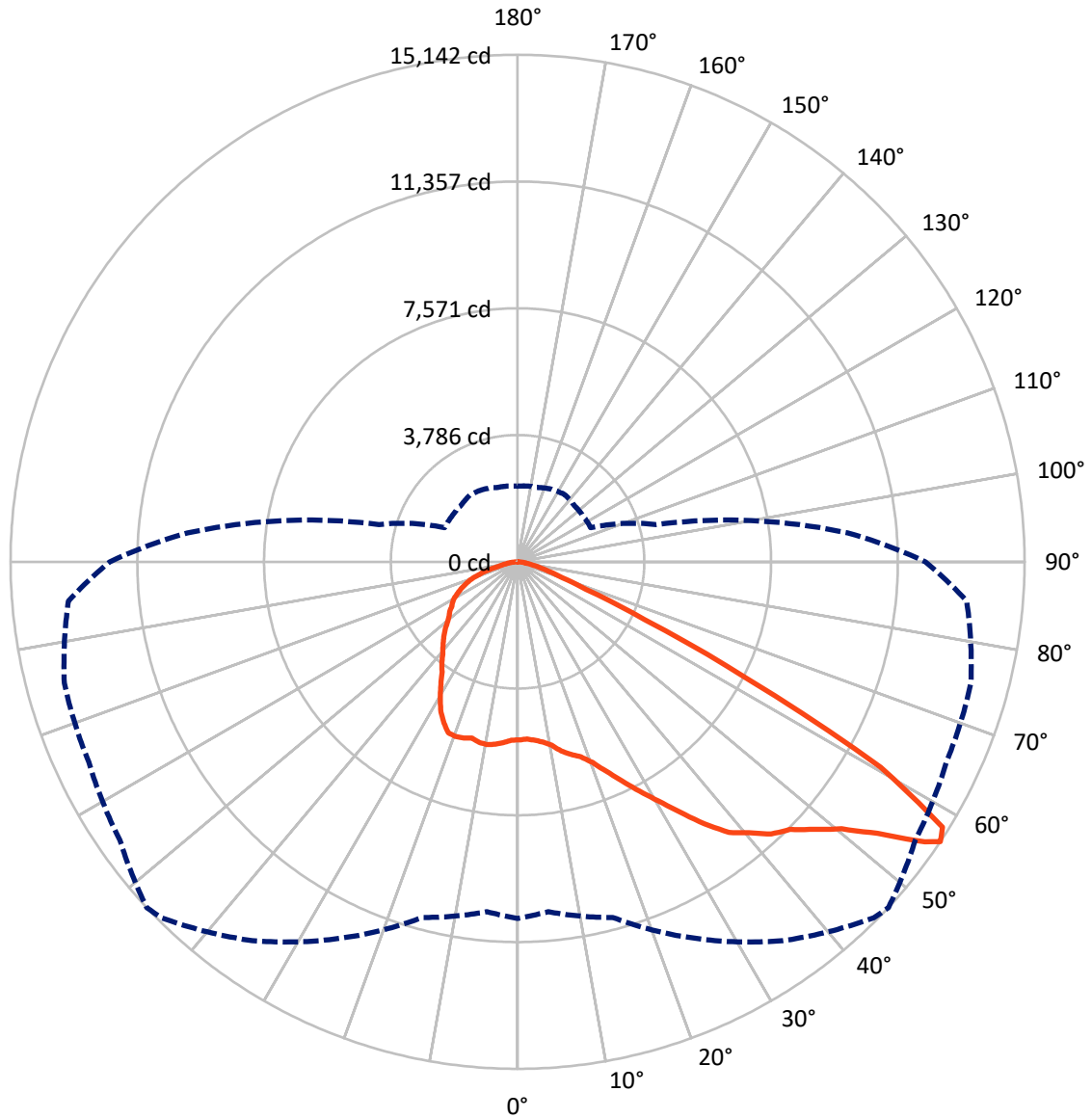
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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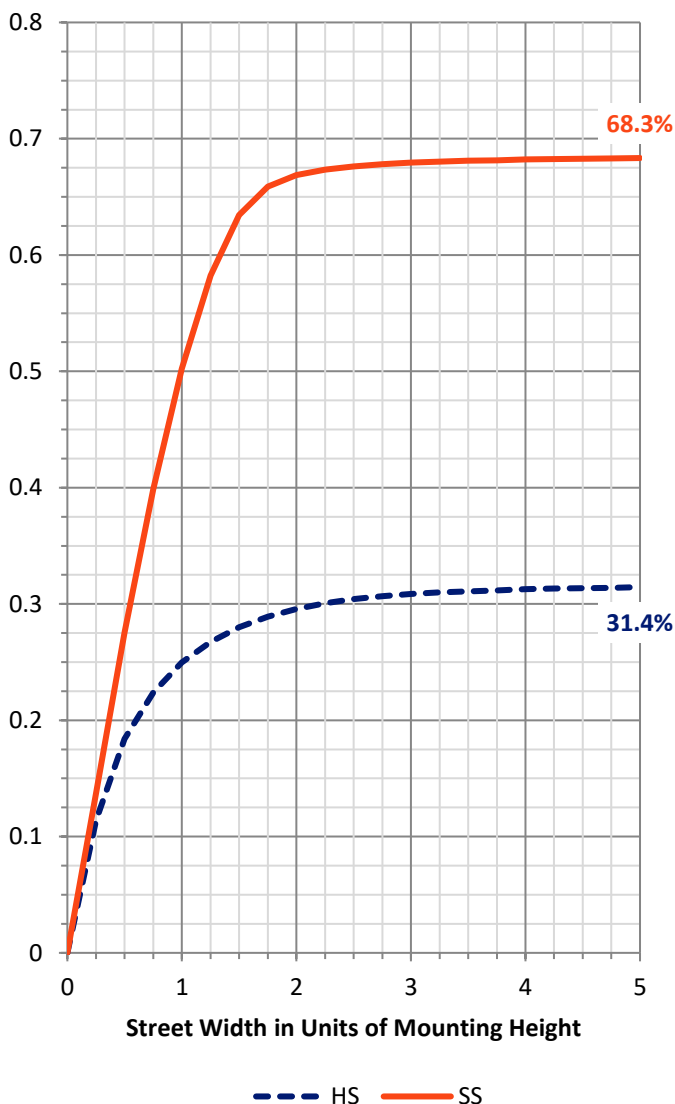
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8390.6	0.0	8390.6
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	18087.5	0.0	18087.5
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	26478.0	0.0	26478.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.2	2.0
10°-20°	1634.8	6.2
20°-30°	2889.8	10.9
30°-40°	4340.4	16.4
40°-50°	5956.9	22.5
50°-60°	7096.8	26.8
60°-70°	3037.0	11.5
70°-80°	859.5	3.2
80°-90°	144.6	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°	26478.0	100.0
0°-180°	26478.0	100.0

**Coefficient of Utilization**



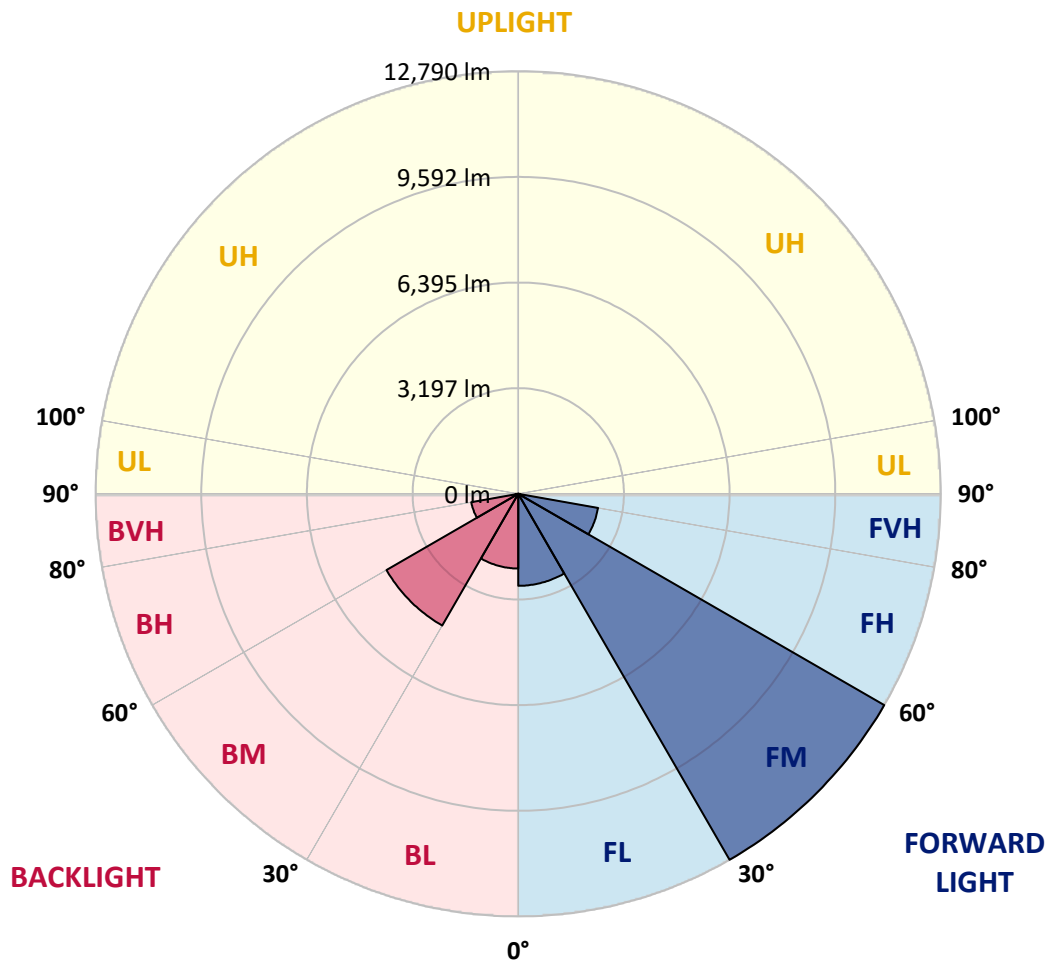
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2783.7	10.5			
FM (30°-60°)	12789.5	48.3			
FH (60°-80°)	2452.8	9.3			G2/5000
FVH (80°-90°)	61.4	0.2			G1/100
BL (0°-30°)	2259.1	8.5	B3/2500		
BM (30°-60°)	4604.6	17.4	B3/5000		
BH (60°-80°)	1443.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	83.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7
2.5°	5298.4	5288.2	5281.5	5335.6	5315.3	5318.7	5298.4	5318.7	5332.1	5301.7	5345.6
5°	5288.2	5318.7	5291.7	5308.5	5352.4	5338.9	5352.4	5392.9	5382.8	5372.6	5359.2
7.5°	5382.8	5386.2	5406.5	5413.2	5426.7	5413.2	5433.4	5470.6	5460.4	5403.1	5409.8
10°	5517.9	5524.6	5528.0	5565.1	5588.8	5592.1	5568.5	5534.8	5531.3	5609.0	5555.1
12.5°	5673.2	5656.3	5696.8	5710.4	5737.4	5767.7	5798.2	5727.2	5771.1	5774.6	5710.4
15°	5899.4	5916.4	5869.1	5869.1	5879.2	5882.5	5967.0	5933.3	5926.4	5889.4	5916.4
17.5°	6237.2	6122.3	6118.9	6071.7	6065.0	6092.0	6122.3	6149.4	6240.6	6166.2	6021.1
20°	6483.7	6510.7	6412.8	6355.4	6365.4	6426.2	6395.9	6517.4	6581.6	6460.1	6318.2
22.5°	6919.3	6828.1	6851.7	6723.5	6733.6	6797.7	6794.4	6919.3	6956.4	6763.9	6557.9
25°	7213.1	7189.5	7209.7	7108.4	7121.9	7172.6	7253.6	7459.6	7398.8	7186.1	6709.9
27.5°	7641.9	7594.7	7577.7	7540.7	7527.1	7662.2	7756.8	7976.3	7932.4	7621.6	6980.0
30°	8080.9	8050.6	8067.5	7915.5	7969.5	8256.5	8283.6	8584.1	8563.8	8016.7	7280.6
32.5°	8384.9	8401.8	8432.1	8347.7	8587.5	8817.1	8908.3	9249.3	9266.2	8695.5	7861.4
35°	8874.5	8817.1	8834.0	8931.9	9043.4	9462.1	9610.7	9836.9	9978.8	9408.1	8418.7
37.5°	9181.8	9242.6	9171.7	9327.0	9617.4	10120.6	10255.7	10488.7	10637.3	10110.5	9178.4
40°	9661.3	9563.4	9614.1	9725.5	10022.7	10677.8	10640.7	10880.4	10927.7	10708.2	9887.6
42.5°	10178.0	10130.8	10059.8	10313.1	10563.0	11039.1	11113.4	11002.0	11241.7	11292.4	10900.7
45°	10796.0	10853.4	10863.5	10870.3	11089.8	11505.1	11403.8	11305.9	11582.8	11950.9	11528.8
47.5°	11370.1	11187.7	11319.4	11501.8	11812.4	11815.8	11934.0	11701.0	11994.8	12322.3	12096.1
50°	11562.6	11474.8	11650.4	11994.8	12474.3	12524.9	12538.5	12207.5	12359.5	12619.5	12292.0
52.5°	11488.2	11457.9	11907.0	12440.6	13142.9	13399.6	13467.1	13058.5	13142.9	13024.7	12724.2
55°	11133.7	11224.8	11677.4	12764.7	13841.9	14635.5	14763.8	14247.2	13710.2	13801.4	13470.5
56°	10647.4	10488.7	10995.2	12396.7	13811.6	15037.4	15142.0	14497.1	14132.3	14014.2	13463.7
57.5°	9033.3	8827.2	9492.5	11153.9	13045.0	14885.4	14963.1	14601.8	14061.4	13821.7	12481.0
60°	5288.2	5389.5	6233.7	7692.6	10063.2	12204.2	12464.2	12727.6	12366.2	11292.4	9289.9
62.5°	2552.9	2488.8	3093.3	4410.2	6132.5	7790.5	7712.9	8452.4	8857.7	8023.6	5865.7
65°	1337.3	1330.5	1688.5	2407.7	3370.1	4092.8	4163.7	4562.2	5119.4	4133.3	2978.4
67.5°	982.7	1009.7	1188.7	1691.8	2168.0	2211.9	2201.7	2401.0	2455.0	2076.8	1830.3
70°	769.9	783.5	915.2	1286.6	1614.1	1445.3	1414.9	1438.5	1597.3	1664.8	1583.8
72.5°	557.2	570.7	682.1	867.8	1009.7	986.1	1006.3	1138.0	1333.9	1404.8	1320.4
75°	371.5	381.6	442.4	530.2	597.7	645.0	682.1	834.1	1016.4	1057.0	1016.4
77.5°	256.7	266.8	307.3	374.8	381.6	412.0	425.5	496.4	607.9	658.5	631.5
80°	145.2	145.2	165.5	192.5	236.4	276.9	283.7	341.1	391.7	425.5	432.3
82.5°	67.5	70.9	87.8	118.2	155.3	192.5	199.2	236.4	273.5	307.3	317.4
85°	33.8	37.2	50.6	70.9	94.5	114.8	111.4	114.8	121.6	114.8	118.2
87.5°	10.1	10.1	13.5	16.9	13.5	16.9	16.9	20.3	23.6	27.0	30.4
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°	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7
2.5°	5349.0	5359.2	5291.7	5355.7	5332.1	5328.7	5376.0	5369.3	5386.2	5379.5	5338.9
5°	5352.4	5328.7	5399.6	5335.6	5365.9	5430.1	5386.2	5487.4	5436.8	5470.6	5396.3
7.5°	5457.1	5463.8	5450.4	5477.3	5463.8	5494.3	5470.6	5494.3	5453.7	5457.1	5524.6
10°	5548.2	5528.0	5551.6	5517.9	5541.5	5531.3	5477.3	5460.4	5474.0	5457.1	5501.0
12.5°	5717.1	5679.9	5663.0	5622.6	5595.5	5494.3	5409.8	5362.6	5426.7	5436.8	5416.5
15°	5889.4	5892.7	5815.0	5723.8	5555.1	5403.1	5423.4	5440.2	5440.2	5467.3	5416.5
17.5°	5997.4	5997.4	5926.4	5744.1	5571.9	5484.1	5463.8	5409.8	5362.6	5355.7	5352.4
20°	6186.5	6129.1	5967.0	5740.8	5565.1	5524.6	5372.6	5244.3	5146.4	5112.6	5109.2
22.5°	6402.6	6257.4	6031.1	5747.5	5555.1	5497.6	5213.9	5021.4	4845.8	4771.6	4781.7
25°	6601.8	6368.9	6068.3	5717.1	5517.9	5240.9	4923.6	4656.8	4474.4	4413.7	4383.2
27.5°	6740.3	6487.1	6068.3	5744.1	5379.5	4953.9	4629.7	4288.7	4130.0	4089.4	4096.2
30°	6926.1	6635.7	6173.0	5686.8	5102.5	4582.4	4194.2	3971.3	3876.7	3842.9	3866.6
32.5°	7361.7	7023.9	6318.2	5548.2	4774.9	4211.0	3896.9	3772.0	3633.5	3566.0	3542.4
35°	7834.4	7392.1	6460.1	5315.3	4406.8	3873.3	3677.4	3562.6	3397.1	3322.9	3336.4
37.5°	8503.1	7864.9	6470.1	4930.3	4008.4	3684.2	3505.2	3326.2	3191.2	3076.4	3042.6
40°	9404.7	8509.8	6446.5	4525.1	3687.6	3461.3	3329.6	3106.7	2954.8	2873.8	2890.6
42.5°	10198.3	9266.2	6348.6	4065.8	3397.1	3309.3	3160.8	2941.3	2792.7	2708.3	2701.5
45°	10866.9	9823.5	6162.8	3674.1	3154.0	3140.5	2968.3	2799.4	2681.3	2603.6	2637.4
47.5°	11484.9	10272.6	5882.5	3282.3	2931.1	2958.1	2792.7	2688.0	2613.7	2542.8	2539.4
50°	11707.7	10265.8	5636.0	2958.1	2752.2	2738.7	2731.9	2620.5	2542.8	2482.0	2509.0
52.5°	12079.2	10380.6	5369.3	2735.3	2590.1	2593.5	2617.1	2536.0	2448.2	2411.1	2444.9
55°	12612.7	10397.5	4781.7	2475.3	2455.0	2478.7	2478.7	2424.6	2350.3	2319.9	2303.1
56°	12177.2	9894.4	4288.7	2407.7	2387.5	2387.5	2451.6	2390.9	2299.7	2276.0	2255.8
57.5°	11231.6	8668.5	3589.6	2326.7	2296.3	2343.6	2377.3	2313.2	2228.7	2195.0	2215.3
60°	7746.6	5865.7	2698.2	2151.1	2151.1	2228.7	2255.8	2161.2	2124.1	2120.7	2093.7
62.5°	4521.7	3417.4	2110.6	1992.4	1999.1	2063.3	2083.6	2029.5	1982.2	2039.7	2066.7
65°	2397.6	2039.7	1810.0	1823.5	1826.9	1877.5	1965.3	1962.0	1958.6	1975.5	1978.9
67.5°	1735.7	1695.2	1644.6	1631.0	1637.8	1674.9	1762.7	1830.3	1826.9	1786.4	1756.0
70°	1546.6	1489.2	1458.8	1462.2	1435.2	1479.1	1550.0	1593.9	1516.2	1469.0	1448.7
72.5°	1286.6	1269.7	1249.5	1252.8	1198.8	1188.7	1107.6	1107.6	1087.3	1073.9	1097.5
75°	982.7	975.9	986.1	969.2	911.7	851.0	803.7	759.8	692.2	665.2	651.8
77.5°	621.3	641.6	665.2	628.1	604.4	560.5	513.3	469.4	415.4	385.0	385.0
80°	422.1	439.0	455.9	449.1	422.1	381.6	344.5	297.2	260.0	236.4	233.0
82.5°	320.8	334.3	357.9	330.9	303.9	270.1	239.8	206.0	172.2	145.2	145.2
85°	114.8	131.7	145.2	158.7	168.9	172.2	148.6	121.6	97.9	77.7	74.3
87.5°	30.4	33.8	37.2	33.8	33.8	33.8	37.2	33.8	30.4	23.6	23.6
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)