

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: P652075

Luminaire Tested: **GALN-SA8A-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652075  
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-SA8A-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 23216.6 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

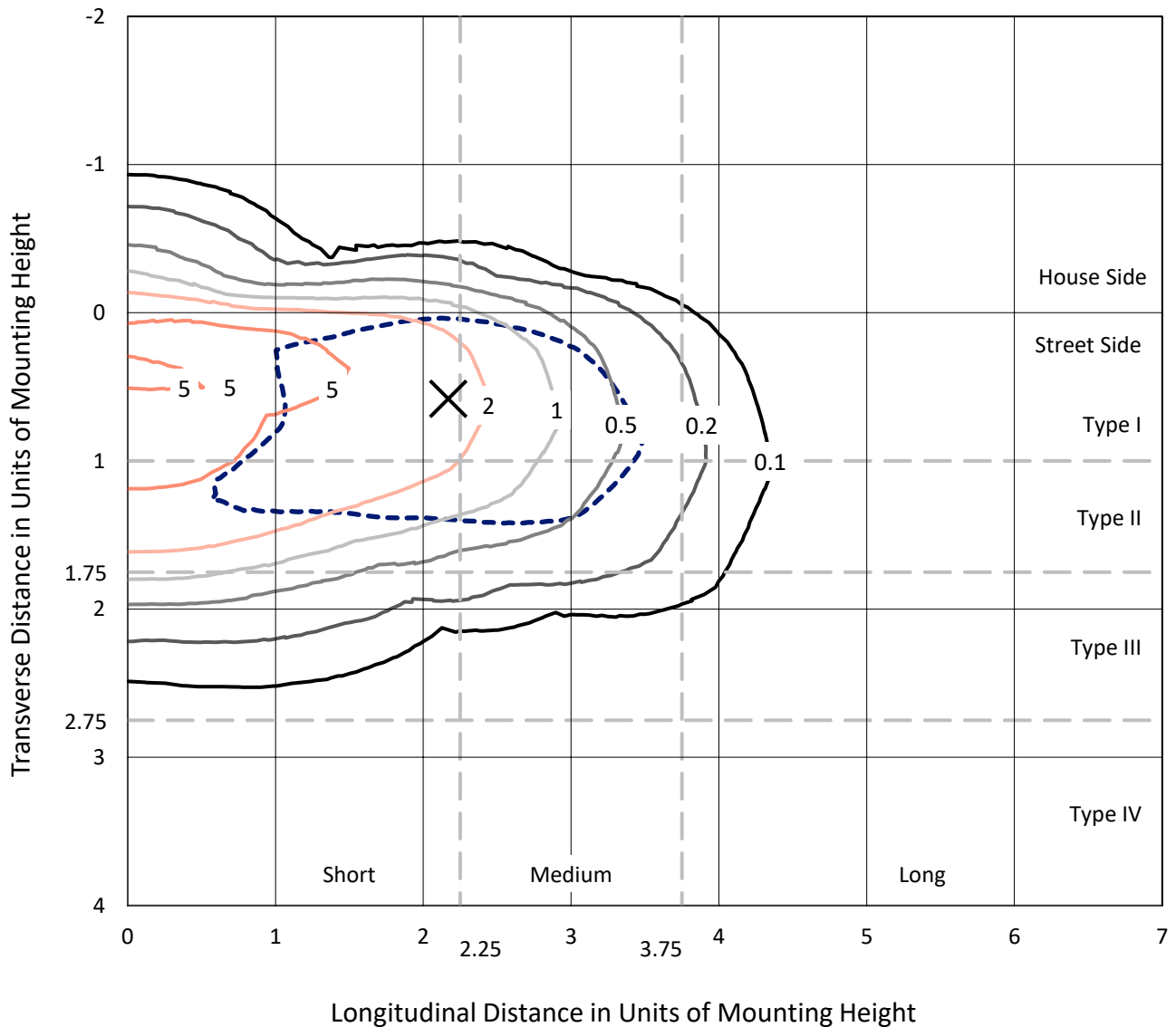
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

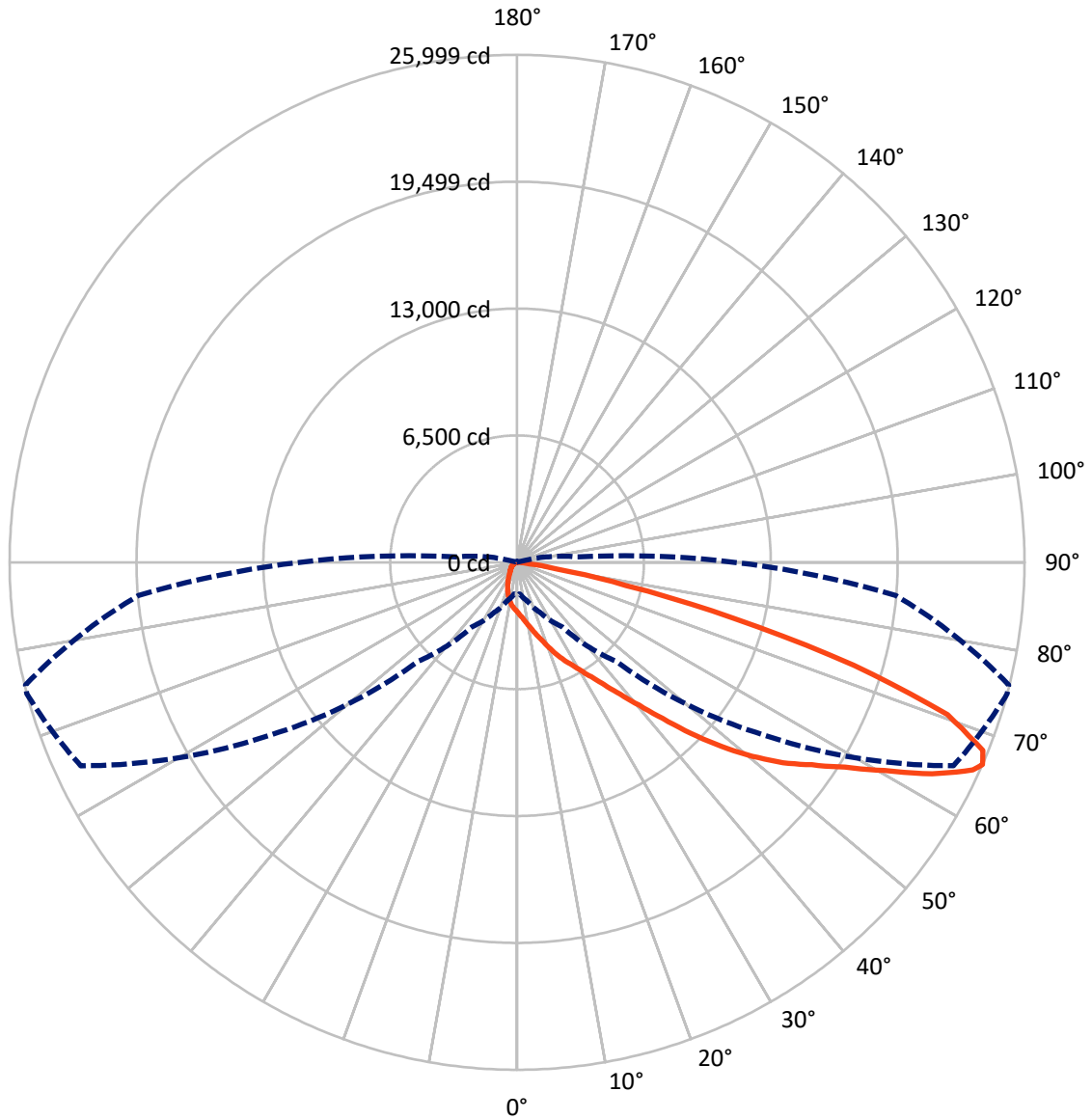
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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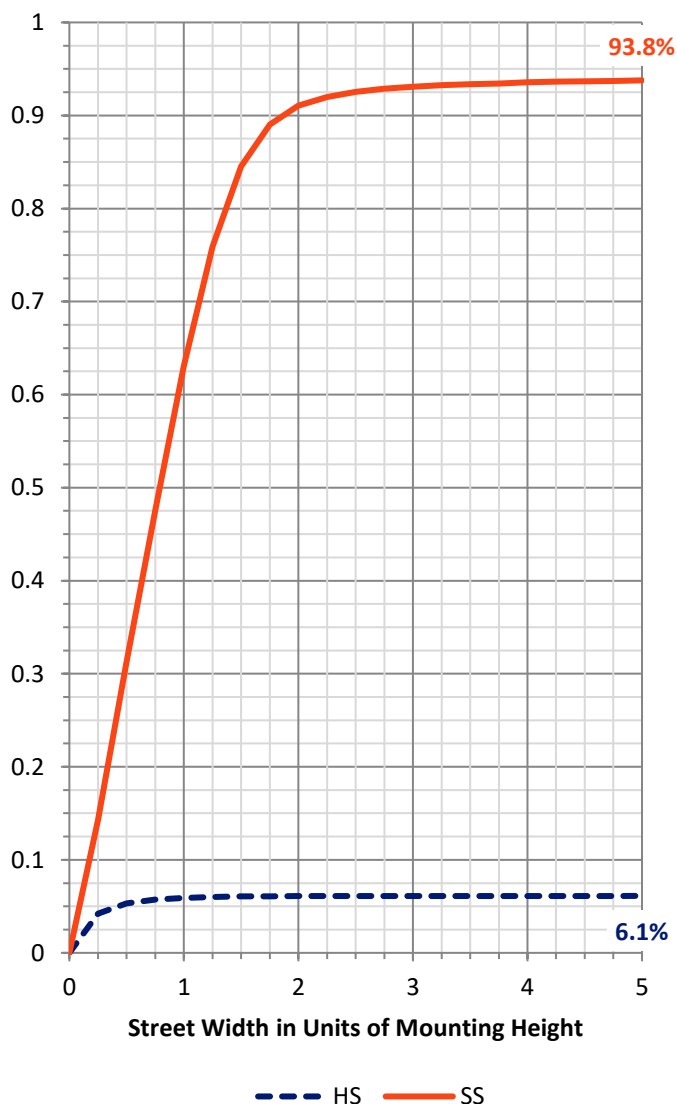
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1433.3	0.0	1433.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	21783.4	0.0	21783.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	23216.6	0.0	23216.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.9	1.1
10°-20°	720.7	3.1
20°-30°	1244.5	5.4
30°-40°	2244.8	9.7
40°-50°	4055.4	17.5
50°-60°	6322.4	27.2
60°-70°	6006.0	25.9
70°-80°	2250.9	9.7
80°-90°	127.0	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°	23216.6	100.0
0°-180°	23216.6	100.0

**Coefficient of Utilization**

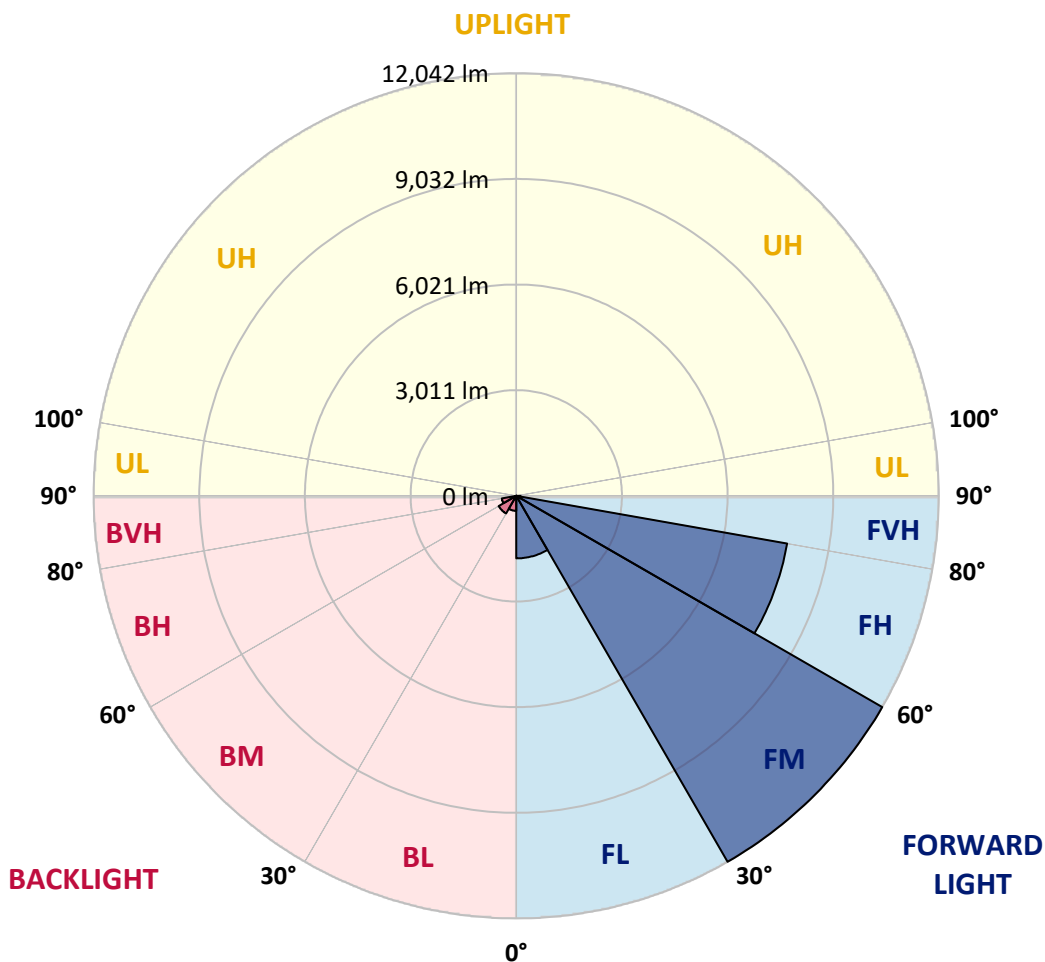


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.1	7.7			
FM (30°-60°)	12042.5	51.9			
FH (60°-80°)	7838.4	33.8			G4/12000
FVH (80°-90°)	120.4	0.5			G2/225
BL (0°-30°)	428.0	1.8	B1/500		
BM (30°-60°)	580.2	2.5	B1/1000		
BH (60°-80°)	418.5	1.8	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0
2.5°	3033.4	2995.6	3007.6	2990.4	2951.0	2892.6	2841.1	2767.3	2693.5	2681.4	2599.0
5°	3433.4	3423.0	3409.3	3359.5	3332.0	3242.8	3136.3	3009.4	2856.5	2829.1	2679.8
7.5°	3706.3	3701.2	3708.1	3682.3	3658.3	3577.5	3464.2	3290.9	3054.0	3038.5	2789.6
10°	3795.6	3809.3	3835.0	3876.3	3914.0	3888.3	3802.4	3586.1	3309.8	3265.1	2914.9
12.5°	3744.0	3759.5	3821.3	3931.2	4053.1	4123.5	4089.1	3931.2	3581.0	3545.0	3055.7
15°	3611.9	3630.8	3718.3	3888.3	4106.3	4305.4	4391.3	4278.0	3896.9	3838.5	3225.7
17.5°	3416.2	3443.6	3569.0	3793.8	4092.6	4435.9	4678.0	4640.2	4233.3	4178.4	3411.0
20°	3268.5	3289.2	3395.6	3653.1	4034.2	4508.0	4950.9	5057.4	4648.8	4554.4	3629.1
22.5°	3366.4	3373.3	3409.3	3563.8	3929.5	4526.9	5191.2	5491.6	5090.0	5005.8	3855.6
25°	3845.4	3776.7	3740.7	3706.3	3907.2	4509.7	5409.2	5944.9	5529.4	5440.2	4080.5
27.5°	4600.7	4569.8	4387.8	4144.0	4097.7	4532.1	5553.5	6374.0	5943.2	5847.1	4300.3
30°	5423.0	5369.8	5258.2	4901.1	4542.3	4690.0	5658.2	6791.2	6432.4	6305.4	4501.1
32.5°	6178.3	6212.6	6046.1	5678.8	5263.3	5026.4	5793.8	7246.1	6993.8	6835.8	4734.6
35°	7059.0	7127.6	6871.9	6519.9	6034.1	5634.1	6058.1	7759.4	7706.2	7507.0	5095.1
37.5°	7953.3	7994.5	7838.4	7343.9	6906.2	6406.7	6556.0	8392.8	8583.4	8413.4	5526.0
40°	8705.3	8762.0	8646.9	8207.5	7740.5	7301.1	7278.7	9083.0	9627.2	9452.0	6168.1
42.5°	9280.4	9323.3	9326.7	9016.0	8595.4	8396.3	8200.6	9963.6	10935.3	10732.7	6913.1
45°	10006.6	10068.4	10032.3	9821.1	9507.0	9470.9	9369.7	11027.9	12500.9	12245.0	7879.6
47.5°	11129.2	11170.4	11081.2	10832.2	10512.9	10569.6	10509.6	12221.1	14097.3	13877.7	8880.4
50°	11908.6	11977.3	12104.3	12203.9	11972.1	11762.7	11584.2	13335.1	15613.2	15415.8	9903.5
52.5°	11900.1	12013.3	12415.0	12916.3	13422.7	13359.2	12845.9	14566.0	17060.4	16816.6	10864.9
55°	11098.3	11318.1	11908.6	12797.8	14200.4	14899.1	14665.6	15990.9	18310.1	18145.3	11979.0
57.5°	9443.4	9577.4	10398.0	11640.8	13766.1	15623.5	16773.7	17922.1	19808.7	19731.5	13709.4
60°	6351.7	6411.8	7467.6	9004.0	11719.8	14900.8	18318.7	20258.5	21654.2	21616.5	15730.0
62.5°	3639.3	3665.1	4430.7	5726.9	8339.6	12627.9	18449.2	23140.9	23867.0	23887.6	18068.0
65°	1958.8	1972.5	2590.4	3361.2	5074.5	9000.6	16590.0	24720.2	25655.8	25695.2	19516.9
66°	1690.9	1625.7	2061.7	2865.1	4037.6	7163.7	15414.1	24663.5	25999.1	25956.2	19465.4
67.5°	1285.8	1344.2	1646.3	2202.5	2992.2	5093.3	12725.8	23566.6	25738.2	25604.2	18674.1
70°	920.1	944.2	1172.5	1570.7	2037.7	2794.7	8131.9	19573.6	23393.2	23212.9	16269.0
72.5°	594.0	619.7	830.9	1136.4	1472.9	1526.2	4552.7	14142.0	18035.4	18009.7	12251.9
75°	424.0	448.1	549.3	813.7	1107.3	944.2	2192.2	9531.0	11465.7	11388.5	7579.2
77.5°	307.3	319.3	367.3	532.2	791.4	676.3	1016.3	5090.0	5708.0	5977.5	3349.3
80°	176.8	187.1	255.7	324.5	535.6	461.8	485.8	2042.9	2106.4	2005.1	1047.2
82.5°	87.5	99.6	152.8	221.4	334.7	310.7	223.2	614.6	648.9	631.8	264.4
85°	20.6	25.7	85.9	145.9	163.1	139.0	108.2	180.2	223.2	218.0	101.3
87.5°	1.7	3.4	30.9	25.7	27.5	46.3	37.8	46.3	72.1	66.9	36.1
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°	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0
2.5°	2561.3	2528.6	2434.3	2341.5	2264.3	2183.7	2109.8	2066.8	2049.7	2030.8	2039.4
5°	2597.3	2518.4	2327.8	2163.1	2001.7	1864.3	1754.4	1684.1	1649.7	1644.6	1636.0
7.5°	2645.4	2509.8	2214.5	1957.0	1745.8	1593.1	1467.8	1366.5	1335.6	1308.1	1285.8
10°	2703.7	2494.3	2073.7	1740.7	1515.8	1323.6	1158.7	1038.6	976.8	959.7	971.6
12.5°	2765.5	2465.1	1926.1	1541.6	1282.4	1036.9	884.1	824.0	806.9	800.0	801.7
15°	2827.4	2429.1	1771.7	1349.3	1021.4	827.5	757.1	741.6	734.7	731.3	727.9
17.5°	2884.0	2370.7	1598.2	1162.2	827.5	707.3	681.5	667.8	654.0	648.9	640.3
20°	2951.0	2303.8	1442.0	952.8	700.4	640.3	609.4	583.7	563.0	549.3	547.7
22.5°	3014.5	2218.0	1278.9	789.7	638.6	575.1	525.3	497.9	473.8	456.7	461.8
25°	3048.8	2113.3	1133.0	688.4	582.0	509.8	454.9	420.6	394.8	386.3	384.5
27.5°	3048.8	1984.5	990.5	630.0	530.4	451.4	394.8	362.2	345.1	333.0	334.7
30°	3024.8	1842.0	858.3	585.4	485.8	400.0	346.7	317.6	303.9	295.3	293.6
32.5°	3005.9	1706.4	745.0	542.4	439.5	355.3	309.0	286.7	273.0	264.4	264.4
35°	3035.1	1589.7	657.5	499.6	396.5	321.0	279.8	259.2	245.5	238.6	236.9
37.5°	3112.4	1483.2	590.6	453.2	357.1	291.8	259.2	235.1	221.4	212.9	209.4
40°	3302.9	1423.1	540.8	410.3	319.3	267.8	235.1	212.9	195.7	187.1	185.4
42.5°	3608.5	1424.8	492.7	370.8	290.1	247.2	214.6	188.8	170.0	161.4	159.6
45°	4068.5	1490.1	454.9	333.0	264.4	224.9	192.3	164.8	147.6	139.0	139.0
47.5°	4619.6	1617.1	422.3	300.4	240.4	204.3	170.0	142.5	125.3	118.4	118.4
50°	5217.0	1781.9	389.7	266.1	219.8	182.0	145.9	123.6	109.8	104.7	104.7
52.5°	5826.4	1981.1	357.1	238.6	197.4	157.9	125.3	109.8	97.9	94.4	92.7
55°	6626.4	2235.1	322.8	209.4	173.4	135.7	111.6	96.1	82.4	77.3	75.5
57.5°	7857.2	2617.9	284.9	183.7	142.5	113.3	96.1	80.7	65.3	56.7	54.9
60°	9342.2	3084.9	245.5	161.4	115.0	92.7	77.3	61.8	48.1	37.8	36.1
62.5°	10732.7	3381.8	207.7	135.7	91.0	70.4	54.9	46.3	34.3	24.1	22.3
65°	11347.3	3282.3	171.6	109.8	72.1	49.8	36.1	32.6	20.6	10.3	8.6
66°	11143.0	3134.7	157.9	99.6	65.3	42.9	30.9	27.5	15.5	5.1	5.1
67.5°	10540.4	2786.1	137.3	85.9	56.7	34.3	24.1	20.6	8.6	1.7	0.0
70°	9031.4	2254.0	108.2	63.5	41.2	24.1	13.7	10.3	5.1	0.0	0.0
72.5°	6937.1	1678.9	85.9	48.1	29.2	13.7	6.9	3.4	5.1	0.0	0.0
75°	4250.5	959.7	66.9	36.1	18.9	8.6	5.1	0.0	5.1	1.7	0.0
77.5°	1886.6	430.9	44.7	24.1	13.7	6.9	3.4	0.0	3.4	1.7	0.0
80°	477.3	140.8	25.7	17.2	10.3	5.1	1.7	0.0	3.4	3.4	1.7
82.5°	130.4	51.5	18.9	13.7	8.6	5.1	1.7	0.0	3.4	3.4	3.4
85°	51.5	24.1	17.2	13.7	10.3	5.1	1.7	0.0	3.4	3.4	3.4
87.5°	24.1	17.2	17.2	15.5	12.0	5.1	1.7	0.0	3.4	1.7	3.4
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)