

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: P652137

Luminaire Tested: **GALN-SA9A-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652137  
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-SA9A-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 29726 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: B4 - U0 - G3

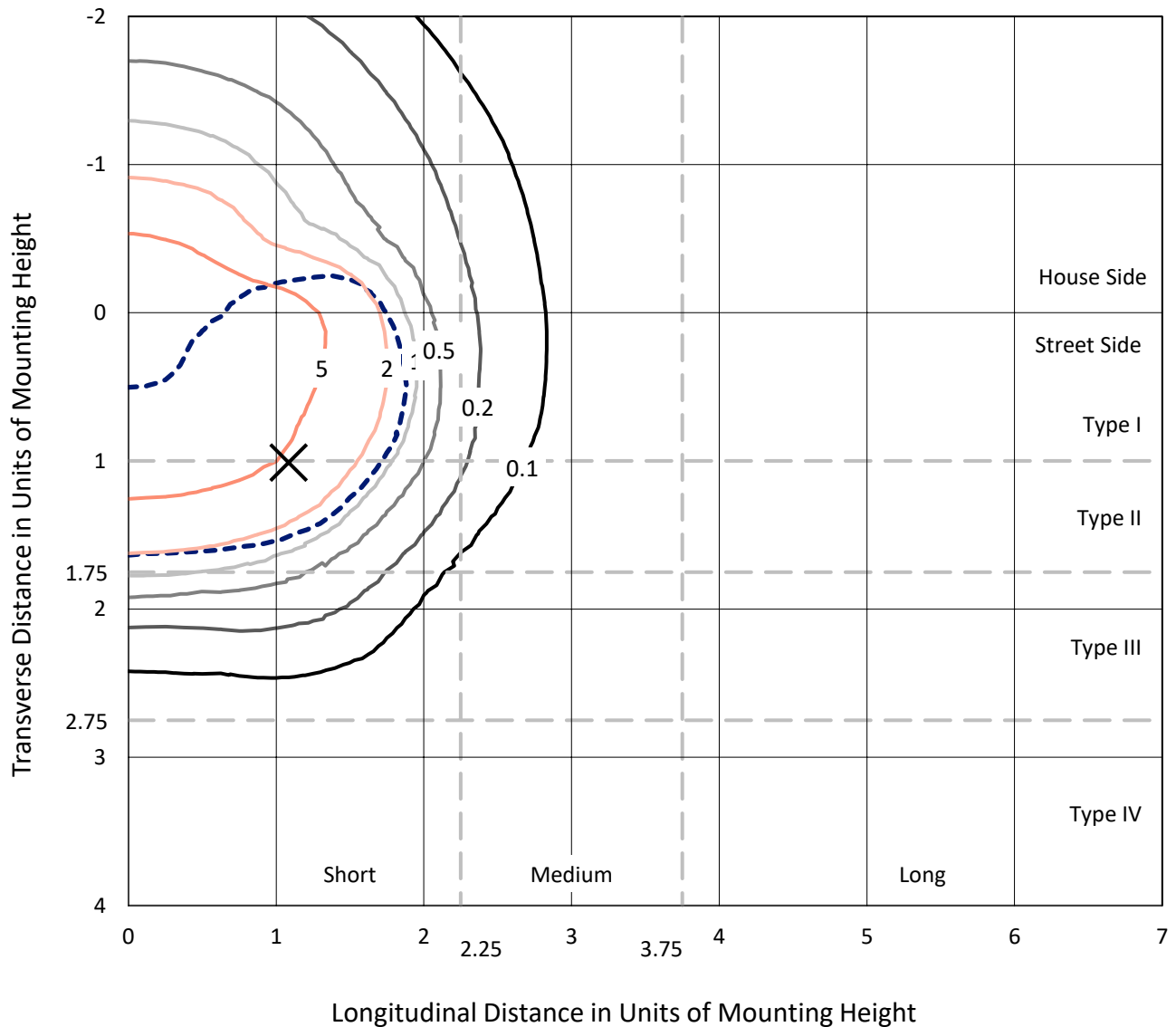
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

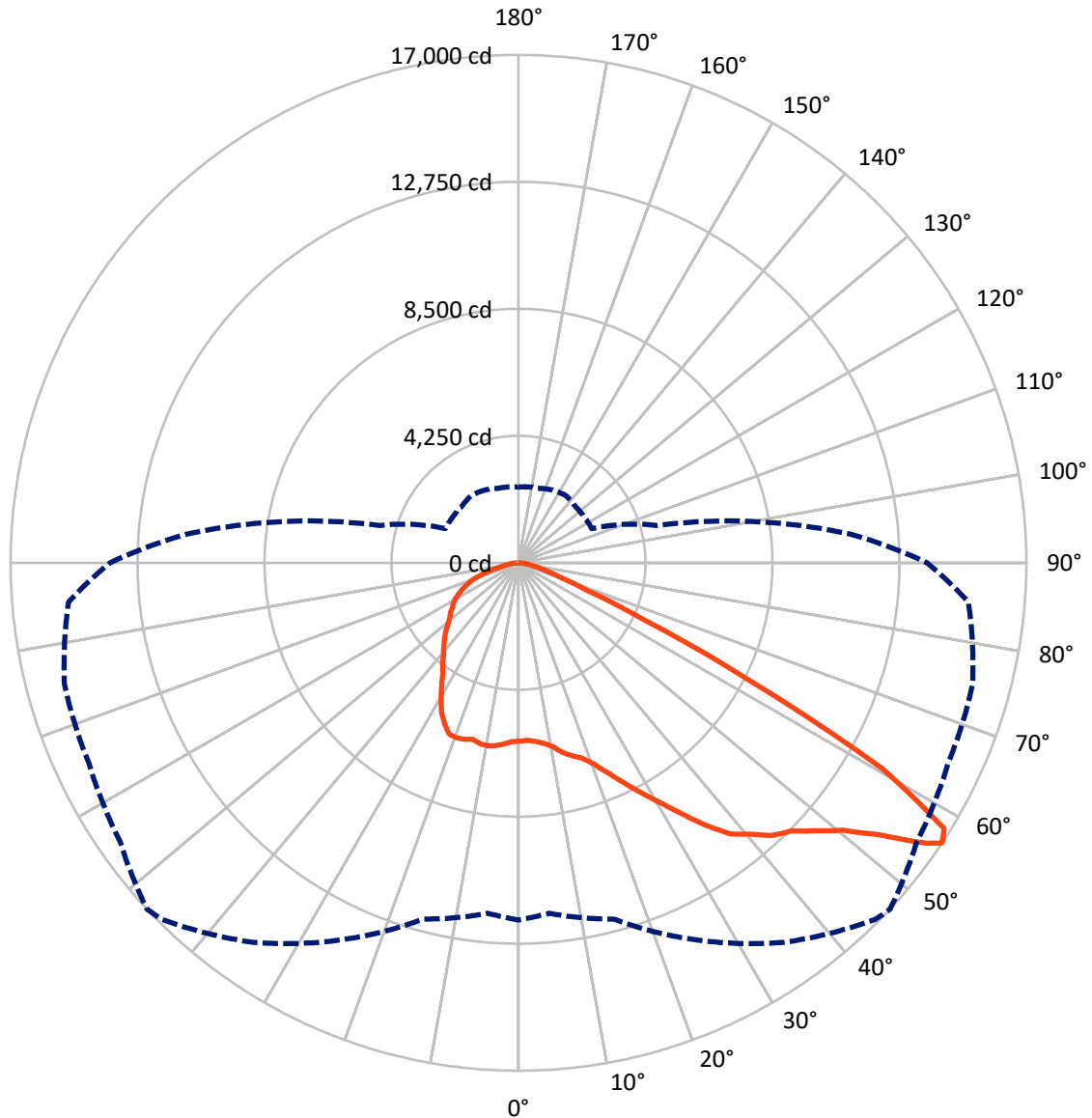
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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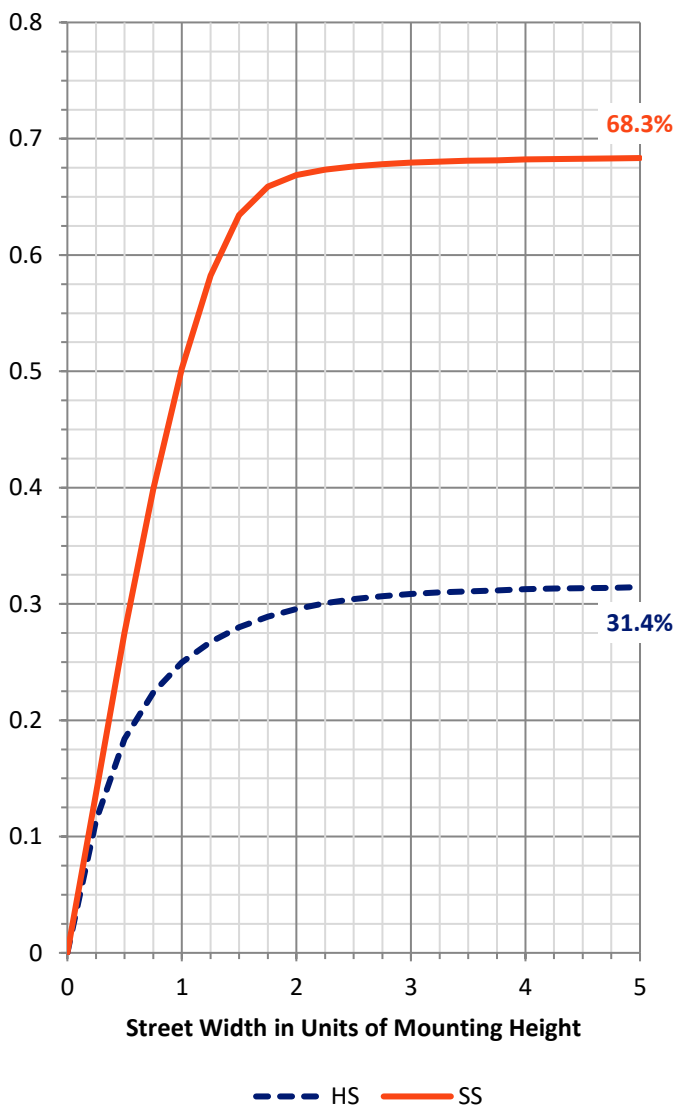
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9419.8	0.0	9419.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	20306.2	0.0	20306.2
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	29726.0	0.0	29726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.8	2.0
10°-20°	1835.3	6.2
20°-30°	3244.3	10.9
30°-40°	4872.9	16.4
40°-50°	6687.5	22.5
50°-60°	7967.3	26.8
60°-70°	3409.5	11.5
70°-80°	964.9	3.2
80°-90°	162.4	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°	29726.0	100.0
0°-180°	29726.0	100.0

**Coefficient of Utilization**



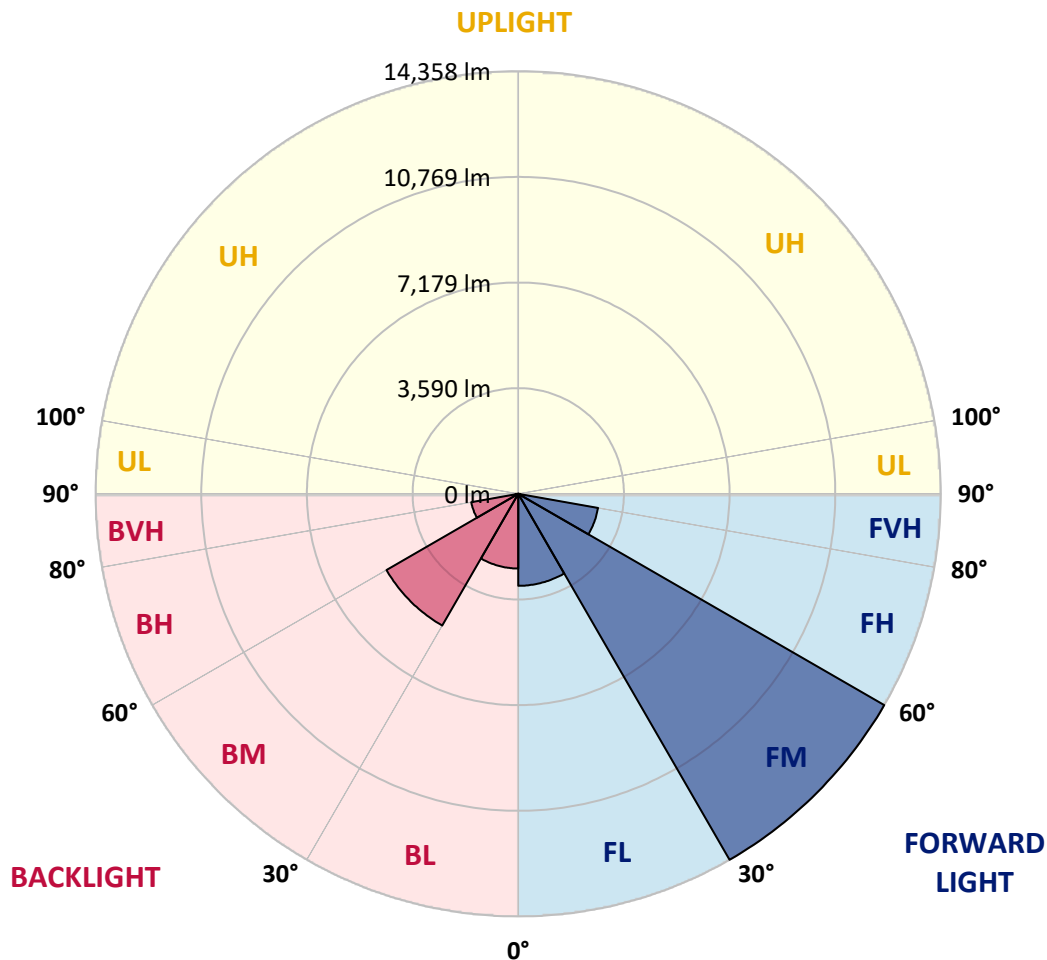
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3125.2	10.5			
FM (30°-60°)	14358.3	48.3			
FH (60°-80°)	2753.7	9.3			G2/5000
FVH (80°-90°)	68.9	0.2			G1/100
BL (0°-30°)	2536.2	8.5	B4/5000		
BM (30°-60°)	5169.4	17.4	B4/8500		
BH (60°-80°)	1620.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	93.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0
2.5°	5948.3	5937.0	5929.4	5990.0	5967.2	5971.0	5948.3	5971.0	5986.2	5952.1	6001.4
5°	5937.0	5971.0	5940.7	5959.7	6008.9	5993.8	6008.9	6054.4	6043.1	6031.7	6016.5
7.5°	6043.1	6046.9	6069.6	6077.2	6092.4	6077.2	6099.9	6141.7	6130.3	6065.8	6073.4
10°	6194.7	6202.3	6206.1	6247.8	6274.4	6278.1	6251.6	6213.6	6209.9	6297.1	6236.4
12.5°	6369.1	6350.1	6395.6	6410.9	6441.1	6475.3	6509.4	6429.8	6479.1	6482.8	6410.9
15°	6623.1	6642.0	6589.0	6589.0	6600.3	6604.2	6699.0	6661.1	6653.5	6611.8	6642.0
17.5°	7002.3	6873.3	6869.5	6816.5	6808.9	6839.2	6873.3	6903.7	7006.0	6922.6	6759.6
20°	7279.0	7309.3	7199.4	7135.0	7146.3	7214.5	7180.5	7316.9	7388.9	7252.4	7093.2
22.5°	7768.1	7665.7	7692.2	7548.1	7559.5	7631.6	7627.8	7768.1	7809.8	7593.6	7362.4
25°	8097.9	8071.3	8094.1	7980.3	7995.6	8052.4	8143.4	8374.6	8306.4	8067.5	7533.0
27.5°	8579.4	8526.3	8507.3	8465.6	8450.5	8602.1	8708.2	8954.7	8905.3	8556.6	7836.3
30°	9072.2	9038.1	9057.1	8886.4	8947.1	9269.3	9299.7	9637.1	9614.3	9000.1	8173.7
32.5°	9413.4	9432.3	9466.5	9371.7	9640.9	9898.7	10001.0	10383.9	10402.9	9762.2	8825.8
35°	9963.2	9898.7	9917.7	10027.6	10152.6	10622.8	10789.6	11043.6	11202.8	10562.1	9451.3
37.5°	10308.1	10376.3	10296.7	10471.1	10797.2	11362.1	11513.7	11775.3	11942.1	11350.6	10304.4
40°	10846.5	10736.5	10793.4	10918.5	11252.1	11987.6	11945.9	12215.0	12268.2	12021.7	11100.4
42.5°	11426.5	11373.4	11293.8	11578.1	11858.7	12393.2	12476.7	12351.5	12620.7	12677.6	12237.8
45°	12120.2	12184.7	12196.1	12203.7	12450.1	12916.4	12802.7	12692.7	13003.6	13416.8	12943.0
47.5°	12764.8	12560.1	12707.9	12912.6	13261.4	13265.2	13397.9	13136.3	13466.1	13833.9	13579.9
50°	12980.8	12882.3	13079.4	13466.1	14004.5	14061.4	14076.5	13704.9	13875.6	14167.5	13799.7
52.5°	12897.5	12863.3	13367.5	13966.6	14755.1	15043.2	15119.1	14660.3	14755.1	14622.5	14285.1
55°	12499.4	12601.7	13109.8	14330.6	15539.9	16430.8	16574.8	15994.8	15392.1	15494.4	15122.9
56°	11953.5	11775.3	12343.9	13917.3	15505.8	16882.0	16999.5	16275.4	15865.9	15733.3	15115.3
57.5°	10141.3	9910.0	10656.9	12522.2	14645.2	16711.3	16798.6	16392.9	15786.3	15517.1	14012.1
60°	5937.0	6050.7	6998.5	8636.2	11297.6	13701.2	13993.1	14288.8	13883.1	12677.6	10429.4
62.5°	2866.1	2794.1	3472.7	4951.2	6884.7	8746.1	8658.9	9489.3	9944.2	9007.8	6585.2
65°	1501.3	1493.7	1895.5	2703.1	3783.6	4594.9	4674.4	5121.9	5747.4	4640.4	3343.8
67.5°	1103.2	1133.6	1334.5	1899.4	2433.9	2483.2	2471.8	2695.5	2756.1	2331.6	2054.8
70°	864.4	879.5	1027.4	1444.4	1812.2	1622.6	1588.5	1615.1	1793.2	1869.0	1778.0
72.5°	625.5	640.7	765.8	974.3	1133.6	1107.0	1129.8	1277.6	1497.5	1577.1	1482.3
75°	417.1	428.4	496.6	595.2	671.0	724.1	765.8	936.5	1141.2	1186.7	1141.2
77.5°	288.1	299.5	345.0	420.8	428.4	462.6	477.7	557.3	682.4	739.2	709.0
80°	163.0	163.0	185.8	216.1	265.4	310.8	318.5	382.9	439.8	477.7	485.3
82.5°	75.9	79.6	98.6	132.7	174.4	216.1	223.7	265.4	307.0	345.0	356.3
85°	37.9	41.7	56.9	79.6	106.1	128.9	125.1	128.9	136.5	128.9	132.7
87.5°	11.4	11.4	15.1	18.9	15.1	18.9	18.9	22.7	26.6	30.4	34.1
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°	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0	5971.0
2.5°	6005.2	6016.5	5940.7	6012.7	5986.2	5982.5	6035.5	6028.0	6046.9	6039.3	5993.8
5°	6008.9	5982.5	6062.0	5990.0	6024.1	6096.2	6046.9	6160.6	6103.7	6141.7	6058.2
7.5°	6126.5	6134.1	6118.9	6149.2	6134.1	6168.1	6141.7	6168.1	6122.7	6126.5	6202.3
10°	6228.9	6206.1	6232.7	6194.7	6221.3	6209.9	6149.2	6130.3	6145.4	6126.5	6175.8
12.5°	6418.4	6376.7	6357.7	6312.2	6281.9	6168.1	6073.4	6020.3	6092.4	6103.7	6081.0
15°	6611.8	6615.6	6528.3	6426.0	6236.4	6065.8	6088.6	6107.5	6107.5	6137.9	6081.0
17.5°	6733.0	6733.0	6653.5	6448.7	6255.4	6156.8	6134.1	6073.4	6020.3	6012.7	6008.9
20°	6945.4	6880.9	6699.0	6444.9	6247.8	6202.3	6031.7	5887.7	5777.7	5739.8	5736.0
22.5°	7188.0	7025.0	6771.0	6452.5	6236.4	6172.0	5853.5	5637.4	5440.3	5356.9	5368.3
25°	7411.6	7150.1	6812.7	6418.4	6194.7	5883.9	5527.5	5228.0	5023.3	4955.0	4920.9
27.5°	7567.1	7282.8	6812.7	6448.7	6039.3	5561.6	5197.6	4814.7	4636.6	4591.1	4598.7
30°	7775.6	7449.6	6930.2	6384.3	5728.4	5144.6	4708.6	4458.4	4352.3	4314.3	4340.8
32.5°	8264.7	7885.6	7093.2	6228.9	5360.7	4727.5	4375.0	4234.7	4079.3	4003.4	3976.9
35°	8795.4	8298.8	7252.4	5967.2	4947.4	4348.5	4128.6	3999.6	3813.9	3730.5	3745.6
37.5°	9546.1	8829.6	7263.8	5535.0	4500.1	4136.1	3935.2	3734.3	3582.7	3453.7	3415.8
40°	10558.3	9553.7	7237.3	5080.1	4139.9	3885.9	3738.1	3487.9	3317.2	3226.2	3245.3
42.5°	11449.2	10402.9	7127.3	4564.5	3813.9	3715.3	3548.5	3302.1	3135.2	3040.5	3032.9
45°	12199.9	11028.5	6918.8	4124.8	3540.9	3525.7	3332.4	3142.8	3010.2	2923.0	2960.9
47.5°	12893.7	11532.6	6604.2	3685.0	3290.7	3321.0	3135.2	3017.8	2934.3	2854.7	2850.9
50°	13143.9	11525.1	6327.4	3321.0	3089.7	3074.6	3067.0	2941.9	2854.7	2786.5	2816.8
52.5°	13560.9	11654.0	6028.0	3070.8	2907.8	2911.6	2938.1	2847.1	2748.6	2706.8	2744.8
55°	14159.9	11672.9	5368.3	2778.9	2756.1	2782.7	2782.7	2722.1	2638.6	2604.5	2585.6
56°	13670.9	11108.0	4814.7	2703.1	2680.4	2680.4	2752.3	2684.1	2581.8	2555.2	2532.5
57.5°	12609.4	9731.9	4030.0	2612.1	2578.0	2631.1	2669.0	2596.9	2502.1	2464.2	2487.0
60°	8696.9	6585.2	3029.1	2414.9	2414.9	2502.1	2532.5	2426.4	2384.7	2380.9	2350.5
62.5°	5076.4	3836.6	2369.4	2236.8	2244.4	2316.4	2339.2	2278.4	2225.4	2289.9	2320.2
65°	2691.7	2289.9	2032.0	2047.2	2051.0	2107.9	2206.4	2202.7	2198.9	2217.8	2221.6
67.5°	1948.7	1903.2	1846.2	1831.1	1838.7	1880.4	1979.0	2054.8	2051.0	2005.5	1971.4
70°	1736.3	1671.9	1637.8	1641.5	1611.3	1660.6	1740.1	1789.4	1702.2	1649.1	1626.4
72.5°	1444.4	1425.5	1402.7	1406.5	1345.9	1334.5	1243.5	1243.5	1220.7	1205.6	1232.1
75°	1103.2	1095.7	1107.0	1088.1	1023.6	955.4	902.3	853.0	777.2	746.9	731.7
77.5°	697.6	720.3	746.9	705.2	678.6	629.3	576.3	527.0	466.3	432.2	432.2
80°	473.9	492.8	511.8	504.3	473.9	428.4	386.7	333.6	291.9	265.4	261.6
82.5°	360.2	375.3	401.8	371.6	341.2	303.3	269.2	231.3	193.3	163.0	163.0
85°	128.9	147.8	163.0	178.2	189.6	193.3	166.8	136.5	109.9	87.2	83.4
87.5°	34.1	37.9	41.7	37.9	37.9	37.9	41.7	37.9	34.1	26.6	26.6
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)