

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: P646965

Luminaire Tested: **GALN-SA5C-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27724.5 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

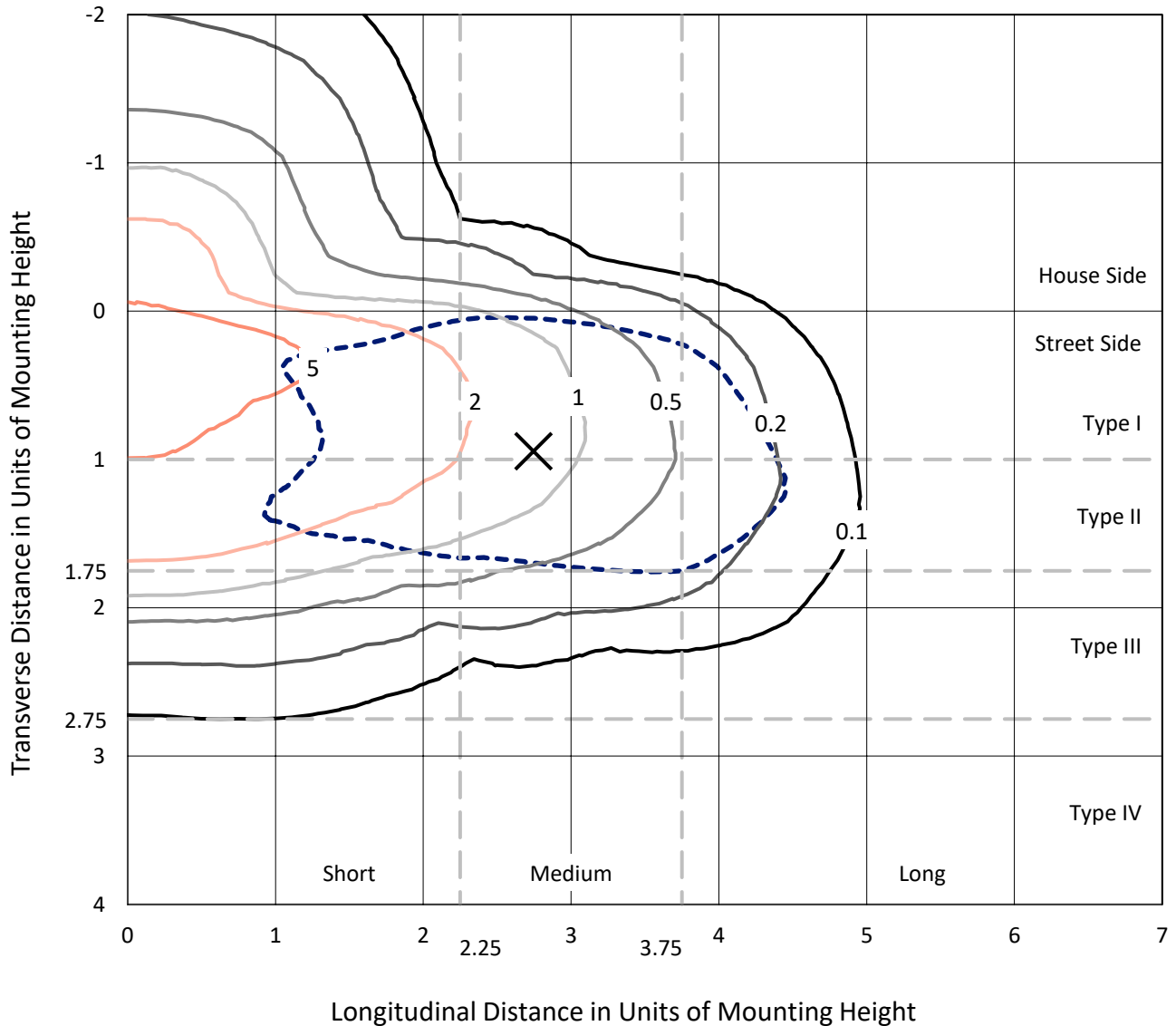
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

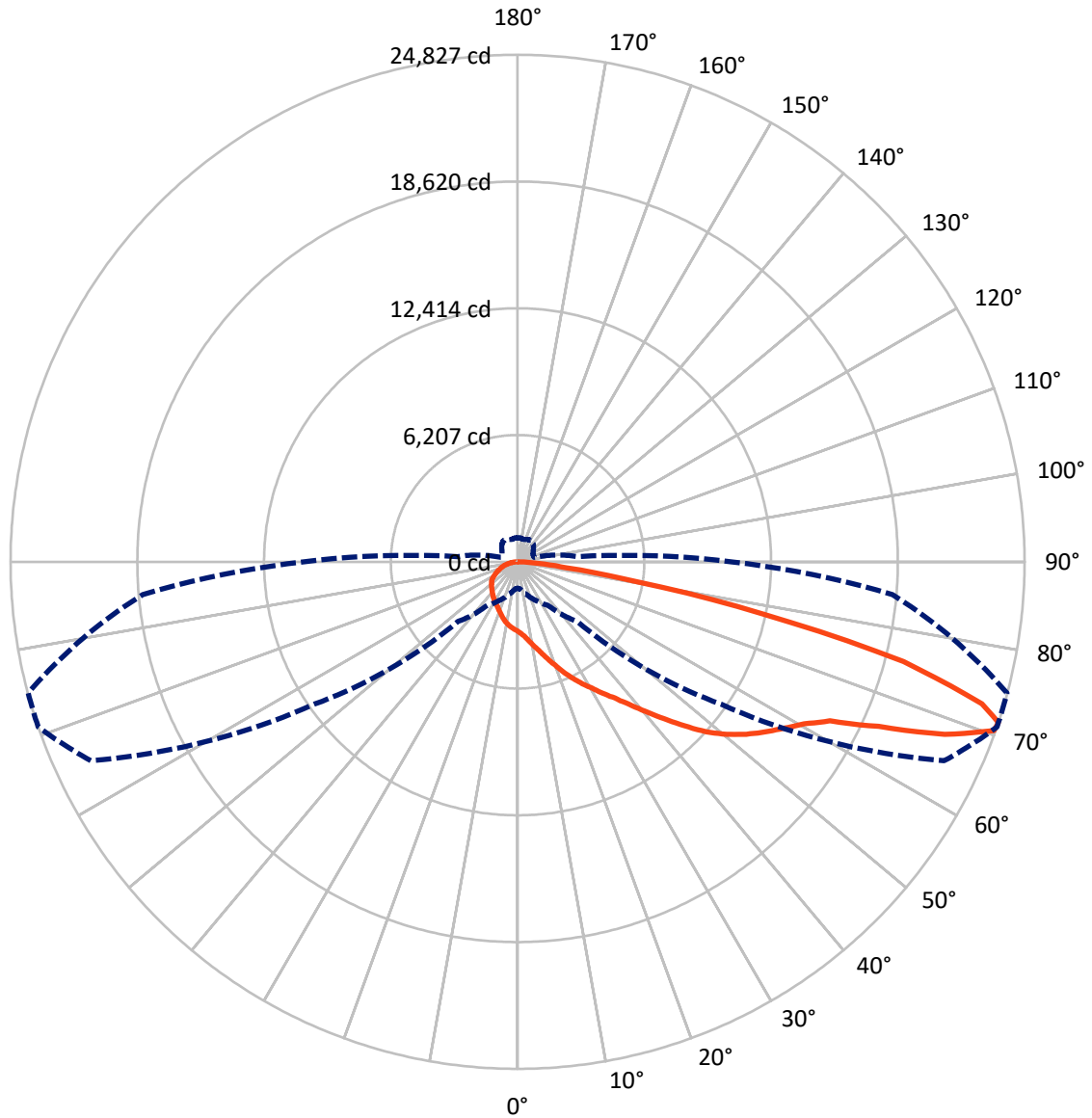
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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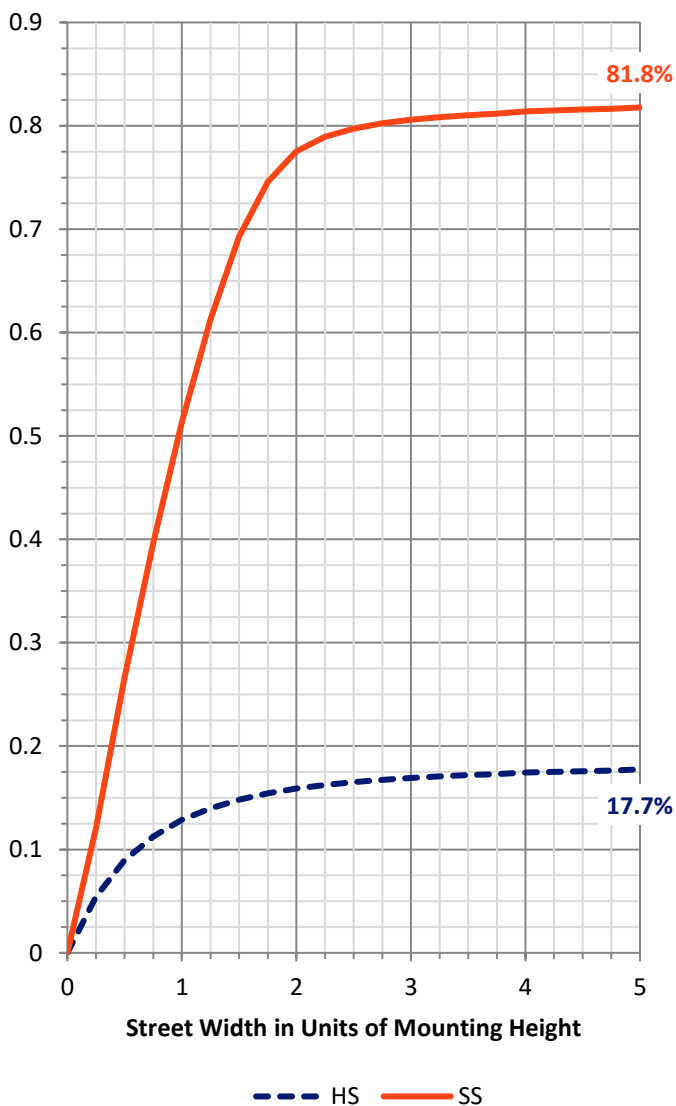
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4986.2	0.0	4986.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	22738.3	0.0	22738.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	27724.5	0.0	27724.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.6	1.2
10°-20°	1110.0	4.0
20°-30°	1939.8	7.0
30°-40°	2885.2	10.4
40°-50°	4251.0	15.3
50°-60°	5951.4	21.5
60°-70°	6656.4	24.0
70°-80°	4066.0	14.7
80°-90°	523.0	1.9
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°	27724.5	100.0
0°-180°	27724.5	100.0

**Coefficient of Utilization**

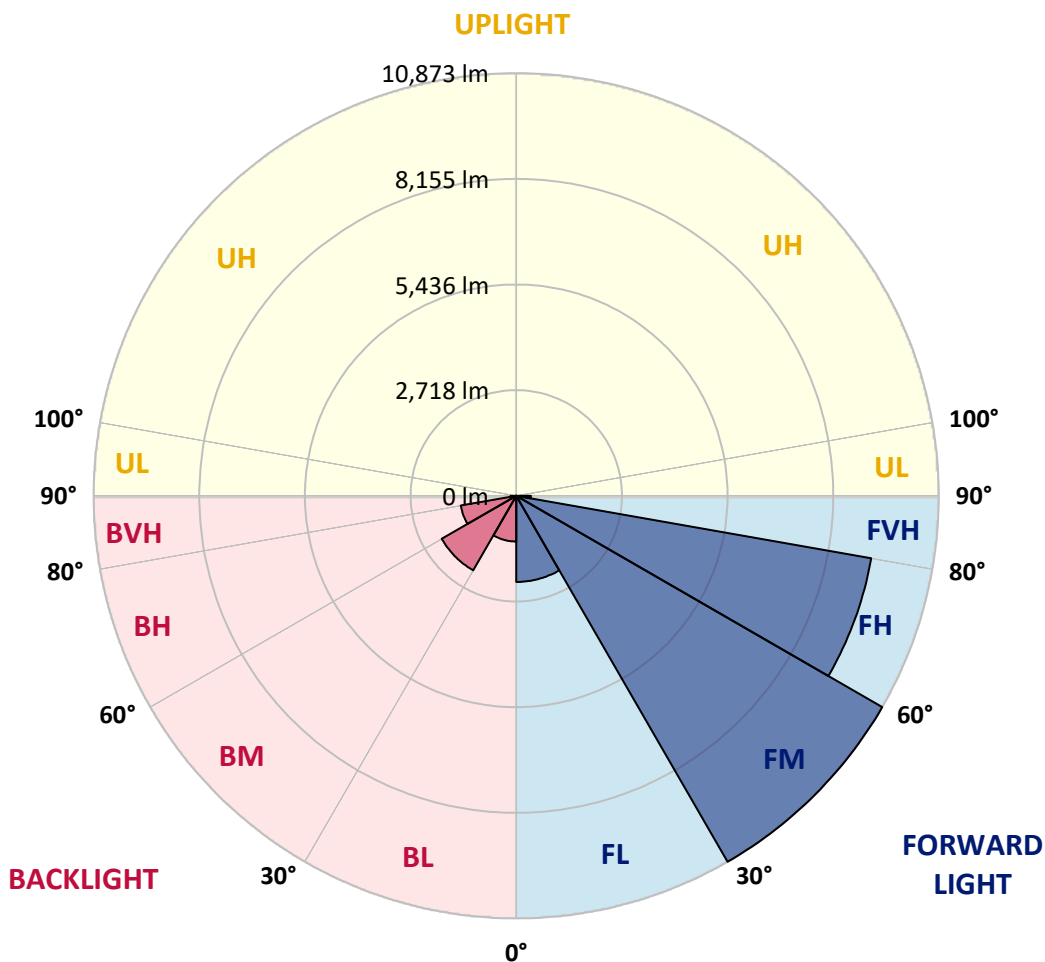


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.2	8.0			
FM (30°-60°)	10873.0	39.2			
FH (60°-80°)	9273.7	33.4			G4/12000
FVH (80°-90°)	376.4	1.4			G3/500
BL (0°-30°)	1176.2	4.2	B3/2500		
BM (30°-60°)	2214.5	8.0	B2/2500		
BH (60°-80°)	1448.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	146.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6
2.5°	3777.5	3759.2	3760.7	3734.8	3701.3	3664.8	3612.9	3567.2	3530.6	3509.3	3446.8
5°	4185.8	4167.6	4144.7	4088.4	4063.9	3974.0	3859.8	3756.1	3676.9	3632.7	3507.8
7.5°	4516.5	4512.0	4505.9	4473.8	4411.3	4286.5	4188.9	4009.1	3891.7	3808.0	3594.6
10°	4720.7	4728.3	4732.9	4739.0	4713.1	4647.6	4513.4	4286.5	4137.1	4030.4	3707.4
12.5°	4824.3	4832.0	4857.9	4914.3	4949.3	4941.7	4832.0	4609.4	4403.7	4263.6	3827.8
15°	4888.3	4900.5	4946.2	5020.9	5138.2	5212.9	5159.6	4953.9	4728.3	4562.2	3971.0
17.5°	4958.4	4972.1	5022.4	5129.1	5283.0	5444.5	5502.5	5325.7	5080.3	4882.2	4131.0
20°	4998.0	5016.3	5087.9	5228.2	5407.9	5642.6	5834.6	5741.7	5473.5	5254.0	4315.3
22.5°	5062.0	5077.3	5138.2	5287.6	5502.5	5796.5	6166.8	6147.0	5910.8	5627.3	4518.1
25°	5235.8	5260.1	5290.6	5380.5	5587.7	5953.5	6442.6	6579.7	6334.4	6017.4	4704.0
27.5°	5563.4	5583.2	5581.7	5593.8	5711.2	6089.1	6681.8	7007.9	6754.9	6412.1	4883.7
30°	5936.7	5944.3	5950.4	5923.0	5948.9	6227.7	6901.3	7431.5	7178.6	6817.4	5040.7
32.5°	6390.8	6406.0	6354.2	6284.1	6262.8	6433.4	7082.6	7855.1	7679.9	7228.9	5196.1
35°	6927.2	6966.8	6861.7	6738.2	6651.4	6729.1	7326.4	8287.9	8193.5	7754.6	5401.8
37.5°	7539.7	7588.5	7491.0	7248.7	7125.2	7146.6	7644.9	8822.8	8842.6	8353.4	5708.1
40°	8041.1	8105.1	8108.1	7765.2	7577.8	7602.2	8048.7	9398.7	9625.8	9094.0	6069.3
42.5°	8371.8	8434.2	8499.7	8298.5	8102.0	8240.7	8519.5	10023.5	10506.5	9993.0	6573.7
45°	8734.4	8790.7	8827.3	8735.9	8626.2	8985.8	9087.9	10687.9	11445.2	10997.2	7125.2
47.5°	9154.9	9217.4	9252.5	9165.6	9124.5	9639.5	9700.5	11308.1	12447.9	11972.5	7734.8
50°	9715.7	9762.9	9744.7	9689.8	9680.7	10140.9	10288.6	11888.6	13275.3	13022.3	8367.1
52.5°	10413.6	10470.0	10489.8	10412.1	10377.0	10498.9	10762.6	12417.4	14028.1	13924.4	9042.2
55°	10835.7	10925.6	11227.3	11349.2	11433.1	10962.2	11273.0	13001.0	14703.1	14875.3	9767.5
57.5°	10294.7	10410.5	11085.6	11695.1	12482.9	12120.3	11996.8	13610.5	15378.1	15797.2	10636.1
60°	8975.1	9001.1	9871.1	10994.2	12578.9	13609.0	13506.9	14579.7	16109.5	16726.7	11780.5
62.5°	6226.3	6281.1	7309.6	9101.6	11393.4	14145.4	16076.0	16252.8	17157.9	18117.9	13458.1
65°	3210.6	3139.0	4076.1	5720.3	8589.6	12871.5	18157.5	19329.3	19431.4	20293.9	15820.0
67.5°	1976.4	2008.4	2447.2	3340.1	5078.8	9354.6	17939.6	23088.6	22550.6	22965.1	18012.8
70°	1484.2	1523.8	1825.5	2285.7	3096.4	5348.5	14427.2	23999.7	24750.9	24644.3	18680.2
71°	1290.6	1331.8	1645.7	2080.0	2601.1	4128.0	12155.3	23045.9	24827.2	24808.9	18428.8
72.5°	1100.2	1126.1	1371.4	1761.5	2192.7	2893.7	9132.1	20668.8	23768.1	24376.1	17531.2
75°	864.0	883.8	993.5	1344.0	1726.4	1776.7	4900.5	15495.5	19521.3	20679.4	14594.9
77.5°	704.0	717.7	774.1	998.1	1331.8	1258.7	2570.7	10086.0	12230.0	13395.6	8597.3
80°	559.2	574.5	608.0	676.6	998.1	897.6	1226.6	5110.8	5907.7	5895.5	3431.6
82.5°	434.3	438.9	478.5	496.7	682.7	637.0	664.4	2163.8	2396.9	2476.2	1238.9
85°	274.3	288.0	423.6	380.9	408.4	373.3	327.6	859.4	1059.0	1043.8	495.2
87.5°	83.8	88.4	143.2	161.5	181.3	163.0	120.3	253.0	309.4	335.2	123.4
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°	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6
2.5°	3422.4	3405.7	3346.2	3297.5	3251.8	3201.5	3158.9	3146.6	3136.0	3131.4	3129.9
5°	3454.4	3404.2	3286.8	3190.8	3114.6	3044.5	3000.4	2980.6	2960.8	2960.8	2966.8
7.5°	3500.2	3408.7	3227.4	3084.2	2988.2	2922.6	2890.6	2887.6	2892.2	2896.7	2898.3
10°	3550.4	3405.7	3140.5	2962.2	2876.9	2846.4	2848.0	2873.8	2898.3	2916.5	2919.6
12.5°	3599.2	3387.4	3038.4	2848.0	2793.1	2799.2	2841.9	2899.8	2947.1	2972.9	2974.5
15°	3654.0	3358.4	2915.0	2739.8	2721.5	2768.8	2848.0	2936.3	3008.0	3050.6	3055.2
17.5°	3699.8	3309.7	2785.5	2634.6	2657.5	2744.3	2854.0	2968.4	3055.2	3108.5	3117.7
20°	3751.6	3247.2	2651.4	2534.1	2599.6	2716.9	2841.9	2965.3	3055.2	3107.0	3119.2
22.5°	3792.7	3158.9	2523.4	2451.8	2547.8	2683.4	2800.7	2899.8	2972.9	3000.4	3018.6
25°	3809.5	3047.6	2403.0	2384.7	2506.6	2628.5	2707.8	2764.1	2787.0	2784.0	2791.6
27.5°	3800.4	2919.6	2299.4	2331.4	2454.9	2543.2	2582.8	2578.3	2537.2	2499.0	2517.3
30°	3762.2	2767.2	2212.5	2276.6	2387.8	2436.5	2430.4	2371.0	2293.3	2221.7	2226.2
32.5°	3693.6	2602.6	2131.8	2214.1	2293.3	2314.6	2273.5	2195.8	2084.6	1991.6	1977.9
35°	3635.8	2445.7	2060.2	2142.4	2198.8	2188.2	2148.6	2048.0	1947.4	1865.1	1851.4
37.5°	3626.6	2311.6	1991.6	2061.7	2093.7	2078.5	2029.7	1944.3	1907.8	1845.3	1837.7
40°	3675.4	2217.1	1921.5	1976.4	1991.6	1979.4	1926.1	1877.3	1910.8	1895.6	1895.6
42.5°	3808.0	2166.8	1859.0	1891.0	1903.2	1912.4	1874.3	1833.2	1874.3	1804.2	1781.3
45°	4018.3	2168.4	1802.6	1807.2	1843.8	1875.8	1849.9	1788.9	1767.6	1627.4	1600.0
47.5°	4327.6	2220.2	1756.9	1728.0	1793.5	1846.9	1810.3	1721.9	1627.4	1534.4	1517.7
50°	4688.7	2313.1	1715.8	1645.7	1726.4	1810.3	1782.8	1679.2	1581.7	1525.3	1514.6
52.5°	5089.5	2430.4	1665.5	1554.3	1644.1	1793.5	1788.9	1673.1	1539.1	1500.9	1491.8
55°	5584.7	2546.2	1603.0	1447.6	1571.0	1779.8	1772.2	1622.8	1529.9	1502.5	1499.4
57.5°	6160.7	2713.9	1513.1	1339.4	1487.2	1723.4	1706.6	1592.4	1499.4	1479.6	1478.1
60°	7088.7	2974.5	1385.1	1240.4	1401.9	1624.3	1645.7	1540.6	1450.7	1446.0	1444.6
62.5°	8309.3	3340.1	1252.6	1138.2	1302.8	1496.4	1557.3	1470.5	1398.8	1421.7	1424.7
65°	9994.5	3648.0	1115.4	1051.4	1193.1	1372.9	1473.5	1404.9	1341.0	1385.1	1385.1
67.5°	11093.2	3654.0	990.5	961.5	1081.9	1269.3	1385.1	1327.3	1266.3	1341.0	1344.0
70°	10864.7	3201.5	886.8	867.0	973.7	1158.1	1287.6	1241.9	1171.8	1238.9	1214.4
71°	10495.9	2950.0	845.7	830.4	931.1	1104.7	1241.9	1203.8	1133.7	1177.9	1164.2
72.5°	9907.7	2561.5	778.7	781.7	867.0	1037.7	1177.9	1138.2	1068.2	1092.6	1088.0
75°	8374.7	2237.0	665.9	679.6	745.1	923.4	1049.9	1019.4	947.8	947.8	943.2
77.5°	5235.8	1563.4	553.1	560.8	632.4	790.8	902.1	876.2	807.6	784.7	778.7
80°	1953.5	807.6	432.8	441.9	486.1	623.3	746.7	722.2	652.2	626.2	601.9
82.5°	739.1	405.4	318.4	310.9	358.1	475.4	585.1	556.2	501.4	438.9	420.5
85°	278.8	201.2	195.0	188.9	210.3	281.9	362.7	356.6	298.6	254.5	249.9
87.5°	73.1	65.5	76.2	56.4	59.4	53.3	54.9	22.9	10.6	4.5	3.1
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)