

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: P647963

Luminaire Tested: **GALN-SA5A-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17782.7 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

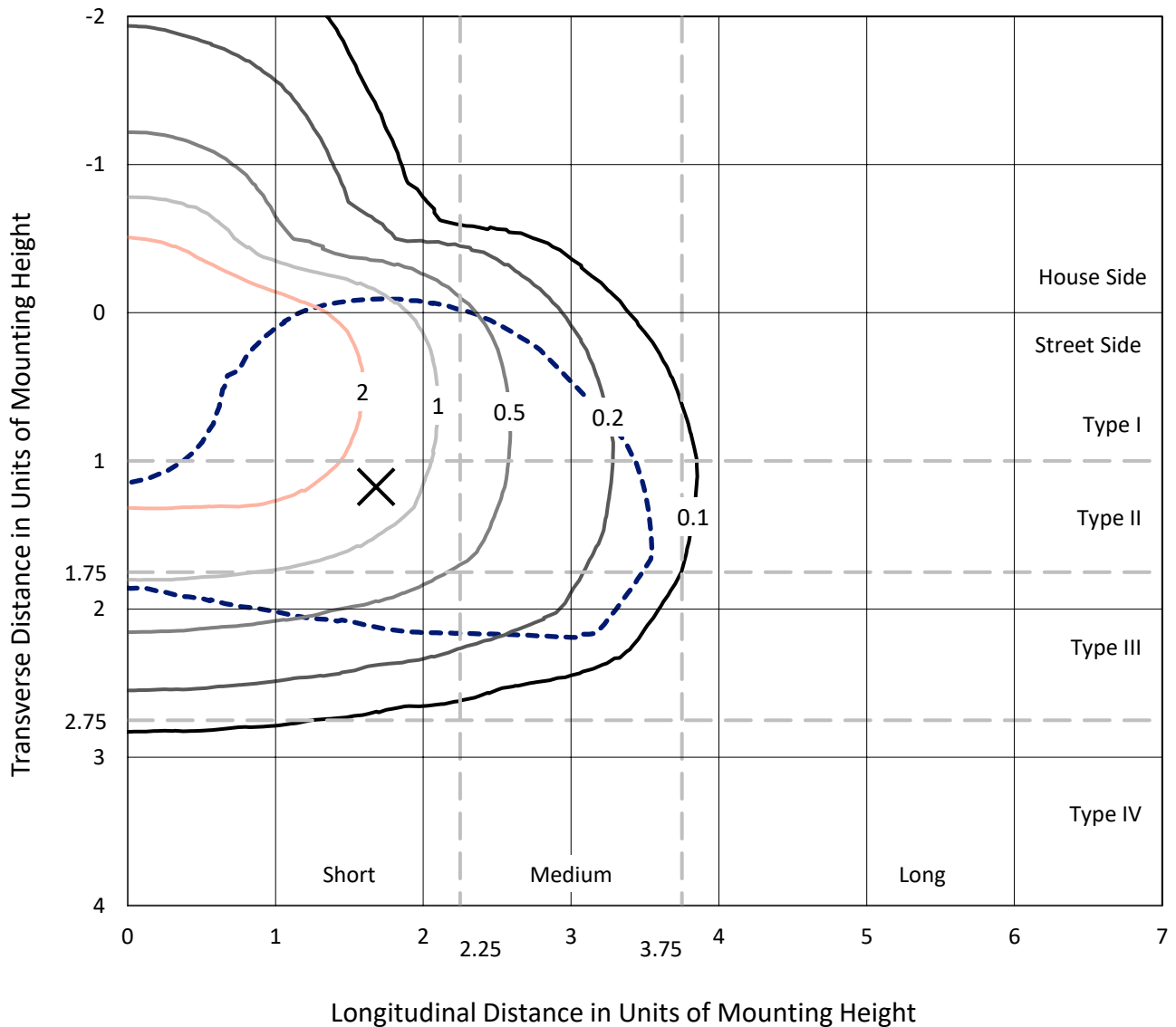
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647963  
 CATALOG NUMBER: GALN-SA5A-835-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

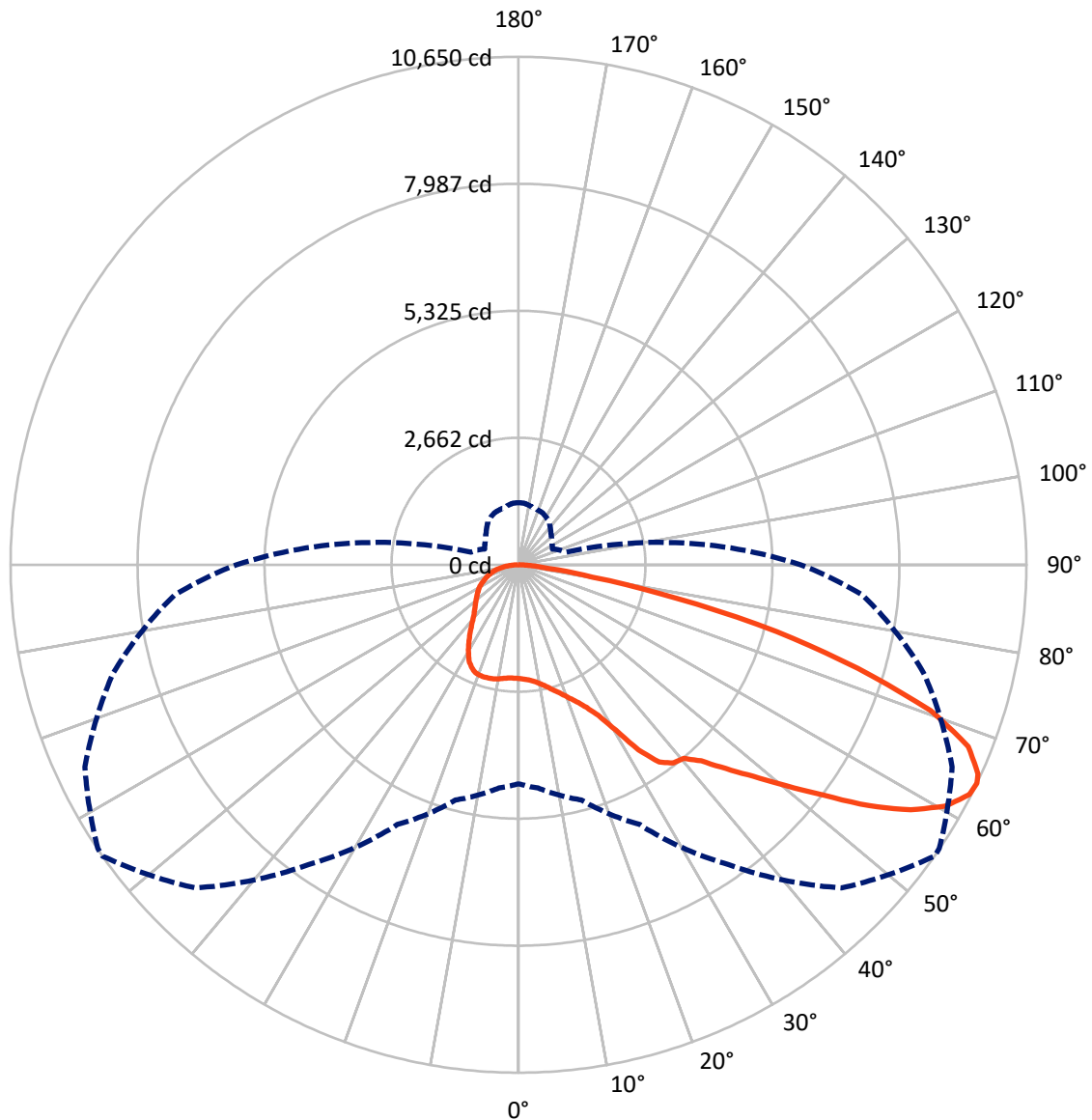
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P647963  
CATALOG NUMBER: GALN-SA5A-835-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P647963  
 CATALOG NUMBER: GALN-SA5A-835-U-T3

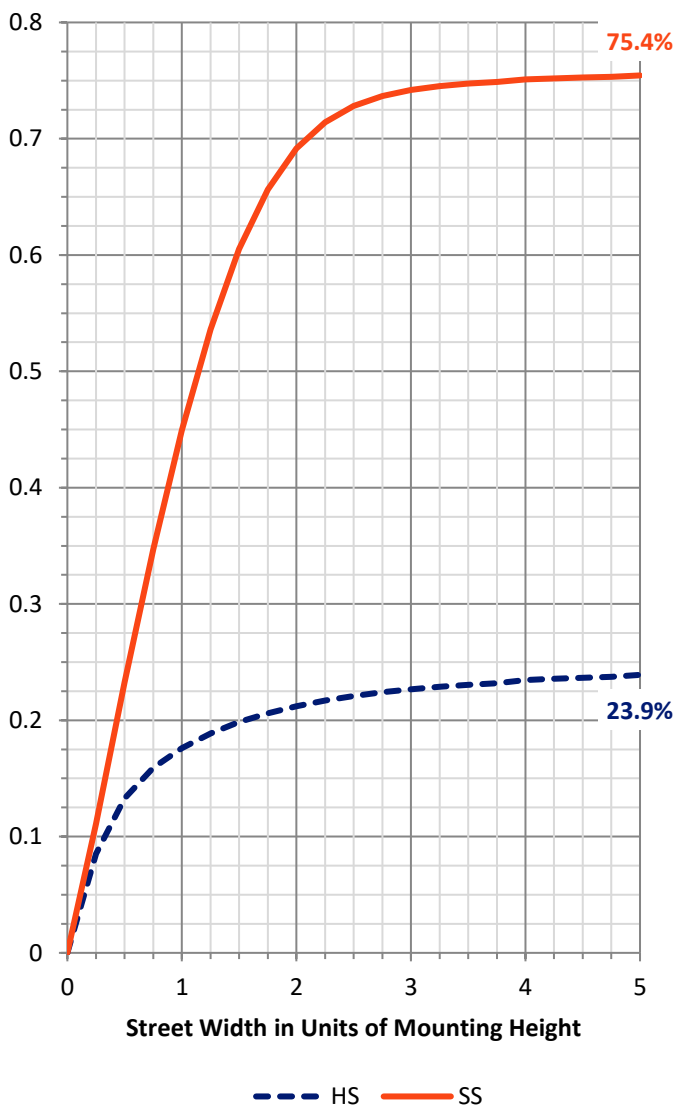
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4319.8	0.0	4319.8
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	13462.9	0.0	13462.9
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	17782.7	0.0	17782.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.1	1.3
10°-20°	732.3	4.1
20°-30°	1303.7	7.3
30°-40°	2005.9	11.3
40°-50°	2843.5	16.0
50°-60°	4115.8	23.1
60°-70°	4259.5	24.0
70°-80°	1994.7	11.2
80°-90°	295.3	1.7
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°	17782.7	100.0
0°-180°	17782.7	100.0

**Coefficient of Utilization**



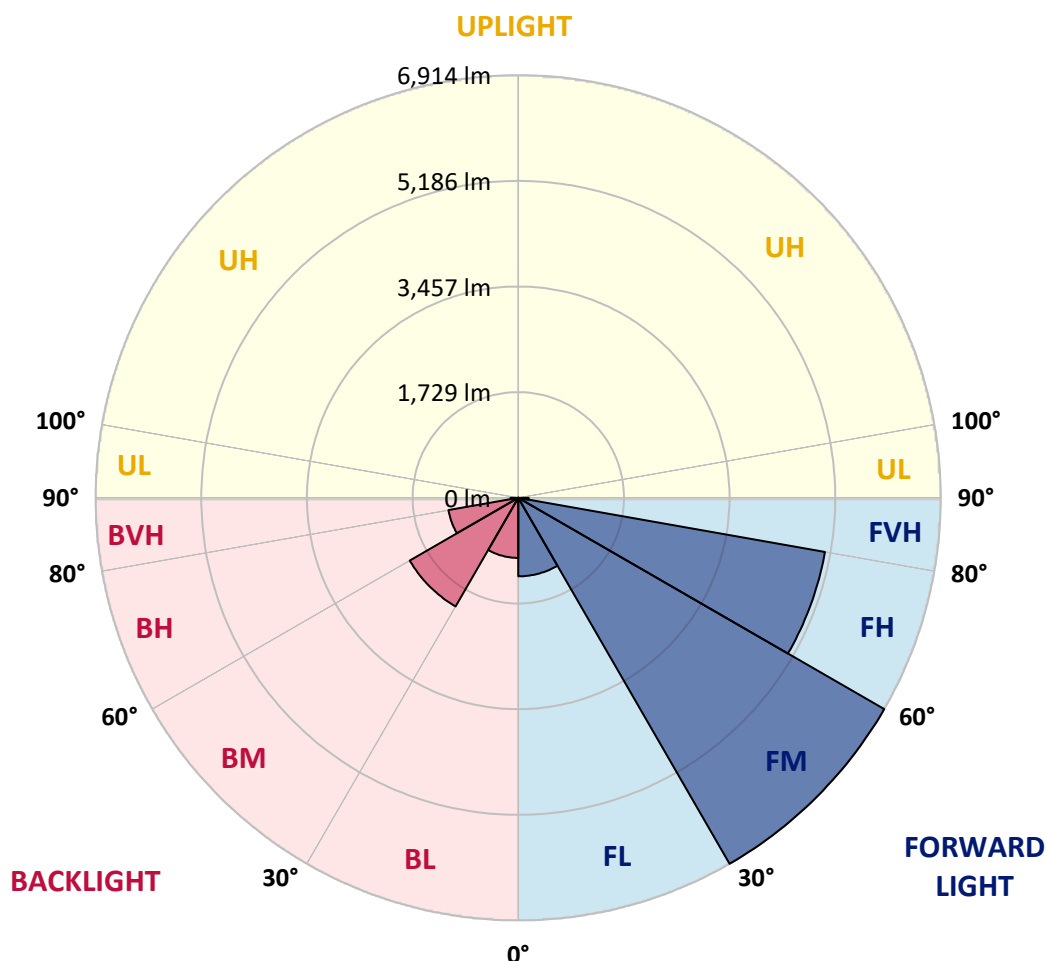
REPORT NUMBER: P647963  
 CATALOG NUMBER: GALN-SA5A-835-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.2	7.2			
FM (30°-60°)	6914.4	38.9			
FH (60°-80°)	5095.3	28.7			G3/7500
FVH (80°-90°)	169.1	1.0			G2/225
BL (0°-30°)	983.9	5.5	B2/1000		
BM (30°-60°)	2050.8	11.5	B2/2500		
BH (60°-80°)	1158.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	126.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





REPORT NUMBER: P647963  
 CATALOG NUMBER: GALN-SA5A-835-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9
2.5°	2412.7	2411.6	2414.6	2411.6	2413.7	2406.7	2403.7	2405.7	2402.8	2397.8	2388.9
5°	2442.4	2441.4	2442.4	2438.4	2440.5	2436.5	2429.5	2431.5	2426.5	2415.6	2402.8
7.5°	2493.0	2489.0	2489.0	2488.0	2484.1	2478.1	2473.1	2471.1	2466.2	2452.3	2432.5
10°	2558.4	2558.4	2559.4	2551.4	2556.4	2545.5	2540.5	2539.6	2522.7	2504.8	2477.1
12.5°	2644.6	2649.6	2646.6	2642.6	2640.7	2636.7	2619.8	2623.8	2605.0	2574.3	2540.5
15°	2751.7	2759.6	2754.7	2752.6	2747.7	2732.8	2725.9	2723.0	2698.1	2653.5	2609.0
17.5°	2893.4	2883.5	2879.6	2874.5	2853.8	2842.8	2830.9	2829.0	2807.2	2754.7	2685.2
20°	3017.3	3031.2	3023.2	3018.3	2997.5	2976.7	2967.7	2964.8	2946.0	2888.5	2777.5
22.5°	3165.0	3168.0	3171.0	3159.1	3149.1	3133.3	3117.4	3112.5	3105.5	3046.1	2910.3
25°	3322.6	3334.5	3324.6	3312.7	3300.8	3299.8	3314.7	3312.7	3309.7	3252.3	3086.7
27.5°	3579.3	3590.3	3593.3	3580.3	3534.8	3538.7	3572.4	3583.3	3628.9	3533.8	3313.7
30°	3724.1	3735.0	3759.7	3808.4	3880.7	3944.1	4025.4	4050.2	4093.8	3914.4	3583.3
32.5°	3813.3	3817.3	3861.8	3952.0	4169.2	4406.0	4627.1	4636.0	4663.8	4412.0	3830.1
35°	3954.1	3957.0	3992.7	4091.8	4346.6	4741.1	5083.1	5094.0	5071.2	4566.6	3945.1
37.5°	4127.5	4135.4	4158.2	4240.5	4544.8	5021.6	5272.4	5264.4	5062.3	4689.5	4148.3
40°	4380.3	4380.3	4353.5	4464.5	4754.0	5182.2	5338.8	5324.9	5271.4	5045.4	4457.6
42.5°	4603.3	4599.3	4662.8	4738.1	5015.7	5429.9	5617.3	5640.1	5728.3	5492.4	4809.5
45°	4893.8	4911.6	4947.2	5084.0	5460.7	5853.2	6095.1	6116.9	6241.8	6018.8	5220.8
47.5°	5187.1	5193.1	5305.1	5487.5	6011.9	6427.2	6625.4	6661.1	6775.1	6634.4	5663.9
50°	5395.3	5451.8	5631.2	5918.7	6579.8	7126.9	7281.6	7324.3	7525.5	7304.5	6180.4
52.5°	5615.4	5670.9	5889.9	6328.0	7232.0	7842.7	8033.0	8061.7	8270.8	7982.5	6708.7
55°	5803.7	5855.2	6104.0	6690.8	7751.5	8573.2	8918.1	8884.5	8984.5	8504.8	7116.1
57.5°	5834.4	5876.0	6189.3	6922.8	8142.0	9199.6	9694.2	9714.1	9598.1	8895.3	7452.1
60°	5596.5	5681.8	6041.5	6898.0	8317.4	9635.8	10273.2	10287.1	9958.0	9095.6	7585.9
62.5°	5175.2	5166.3	5601.5	6499.5	8071.6	9735.0	10614.1	10599.3	10098.7	8999.4	7456.0
64°	4593.4	4700.4	5106.9	6009.8	7675.1	9582.3	10649.8	10641.9	10031.3	8799.2	7235.0
65°	4238.5	4232.6	4634.0	5609.4	7280.6	9352.3	10586.4	10575.5	9890.5	8619.8	7063.5
67.5°	3060.0	3073.8	3470.3	4328.7	5918.7	8453.3	10173.0	10132.4	9335.5	8025.0	6411.3
70°	1853.6	1861.5	2172.8	2871.6	4248.4	6833.6	9169.9	9171.9	8486.0	7136.9	5456.7
72.5°	976.4	997.2	1122.1	1630.6	2580.2	4794.6	7439.2	7615.7	7285.6	6091.1	4310.9
75°	543.2	546.1	634.4	803.9	1316.4	2683.3	5591.6	5642.1	5768.0	4902.7	3187.8
77.5°	414.4	420.3	448.0	519.4	716.7	1244.0	3384.0	3637.8	4065.0	3456.5	1818.9
80°	336.1	342.0	365.7	408.4	476.8	589.8	1572.1	1708.9	2175.8	1534.4	709.7
82.5°	261.7	257.7	288.5	316.2	346.9	348.9	645.3	713.7	886.2	660.1	307.2
85°	194.3	194.3	219.1	213.1	224.0	204.2	284.5	314.2	354.9	280.5	142.7
87.5°	77.3	85.3	143.8	128.9	100.1	80.3	105.1	111.0	122.9	110.0	59.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647963  
 CATALOG NUMBER: GALN-SA5A-835-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9
2.5°	2389.9	2392.8	2385.9	2380.9	2379.0	2376.0	2373.0	2374.0	2378.0	2382.0	2380.9
5°	2401.8	2402.8	2390.9	2384.9	2380.9	2377.0	2377.0	2379.9	2387.9	2393.9	2393.9
7.5°	2431.5	2431.5	2414.6	2403.7	2397.8	2390.9	2388.9	2389.9	2395.8	2403.7	2404.7
10°	2478.1	2474.1	2452.3	2435.4	2424.6	2407.7	2392.8	2384.9	2387.9	2392.8	2392.8
12.5°	2534.6	2523.7	2496.0	2473.1	2446.4	2414.6	2383.9	2368.0	2367.1	2372.0	2370.1
15°	2595.0	2583.2	2544.5	2502.9	2456.3	2409.7	2373.0	2350.3	2332.4	2327.4	2338.4
17.5°	2665.4	2640.7	2587.1	2529.6	2460.3	2399.8	2342.3	2295.7	2264.0	2255.0	2258.0
20°	2750.7	2717.9	2645.6	2555.4	2457.3	2364.1	2274.8	2212.4	2160.9	2145.0	2147.0
22.5°	2868.6	2812.1	2706.0	2568.3	2432.5	2296.7	2172.8	2091.5	2029.1	2004.2	2019.1
25°	3002.4	2941.0	2763.6	2565.3	2368.0	2188.6	2051.9	1945.8	1889.3	1852.7	1860.6
27.5°	3186.8	3077.8	2825.0	2538.6	2275.9	2056.8	1898.2	1798.1	1746.6	1727.7	1736.6
30°	3422.7	3255.2	2891.5	2466.2	2130.2	1890.3	1743.6	1678.1	1647.4	1623.6	1631.5
32.5°	3593.3	3380.1	2906.3	2344.3	1972.5	1738.7	1638.5	1590.0	1556.2	1533.4	1538.4
35°	3715.2	3486.2	2899.4	2194.6	1808.0	1613.8	1555.3	1515.6	1461.1	1411.5	1402.6
37.5°	3878.7	3619.0	2848.8	2031.0	1645.5	1529.5	1487.9	1414.5	1336.2	1269.8	1266.8
40°	4129.5	3774.6	2740.7	1838.7	1506.6	1467.0	1416.4	1321.3	1237.1	1183.5	1179.6
42.5°	4388.2	3918.4	2594.1	1636.5	1392.7	1401.6	1340.2	1246.0	1194.5	1159.8	1155.8
45°	4704.4	4073.9	2435.4	1461.1	1308.4	1340.2	1273.7	1219.2	1188.5	1165.7	1159.8
47.5°	5046.4	4233.6	2257.1	1303.5	1237.1	1283.7	1246.0	1221.2	1204.3	1188.5	1181.5
50°	5415.1	4412.0	2089.5	1176.6	1172.6	1225.2	1243.0	1234.1	1224.1	1219.2	1213.3
52.5°	5819.6	4594.4	1948.7	1087.4	1116.2	1183.5	1244.0	1250.9	1250.9	1247.9	1244.0
55°	6093.1	4721.3	1806.1	1015.0	1058.6	1149.8	1242.0	1268.8	1278.7	1274.7	1270.7
57.5°	6295.3	4790.6	1626.6	952.6	1010.1	1117.1	1231.1	1270.7	1280.7	1285.6	1283.7
60°	6337.0	4726.2	1391.7	887.1	957.5	1069.6	1191.5	1241.1	1253.9	1284.7	1287.6
62.5°	6149.6	4527.9	1157.7	822.7	893.1	997.2	1137.9	1207.3	1233.1	1280.7	1285.6
64°	5919.6	4306.0	1027.9	782.1	851.4	956.5	1111.2	1198.4	1232.1	1295.6	1299.5
65°	5751.1	4144.3	946.6	756.3	824.7	929.8	1096.3	1201.4	1241.1	1318.3	1324.3
67.5°	5130.6	3588.3	783.1	695.9	761.2	884.2	1099.3	1226.2	1239.0	1327.3	1326.2
70°	4245.4	2856.8	656.2	640.3	699.8	847.5	1087.4	1186.5	1187.5	1246.0	1232.1
72.5°	3178.9	2111.4	569.0	582.9	631.4	760.3	1026.9	1133.0	1116.2	1124.1	1110.2
75°	2183.7	1396.6	489.7	521.4	560.1	672.0	941.6	1028.9	1002.2	992.2	982.4
77.5°	1165.7	772.2	407.4	461.0	486.7	580.8	821.8	906.0	878.2	839.6	826.7
80°	471.8	363.8	328.1	381.6	396.5	467.8	684.0	736.5	715.7	648.2	626.5
82.5°	236.9	218.1	257.7	300.4	301.3	334.0	508.5	558.0	511.5	429.2	410.4
85°	123.9	127.9	177.4	211.1	186.4	180.4	305.3	338.0	310.2	269.6	242.9
87.5°	44.6	51.5	93.2	92.2	65.5	34.7	67.4	32.7	17.9	10.9	13.9
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)