

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: P646781

Luminaire Tested: **GALN-SA2C-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10972.2 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

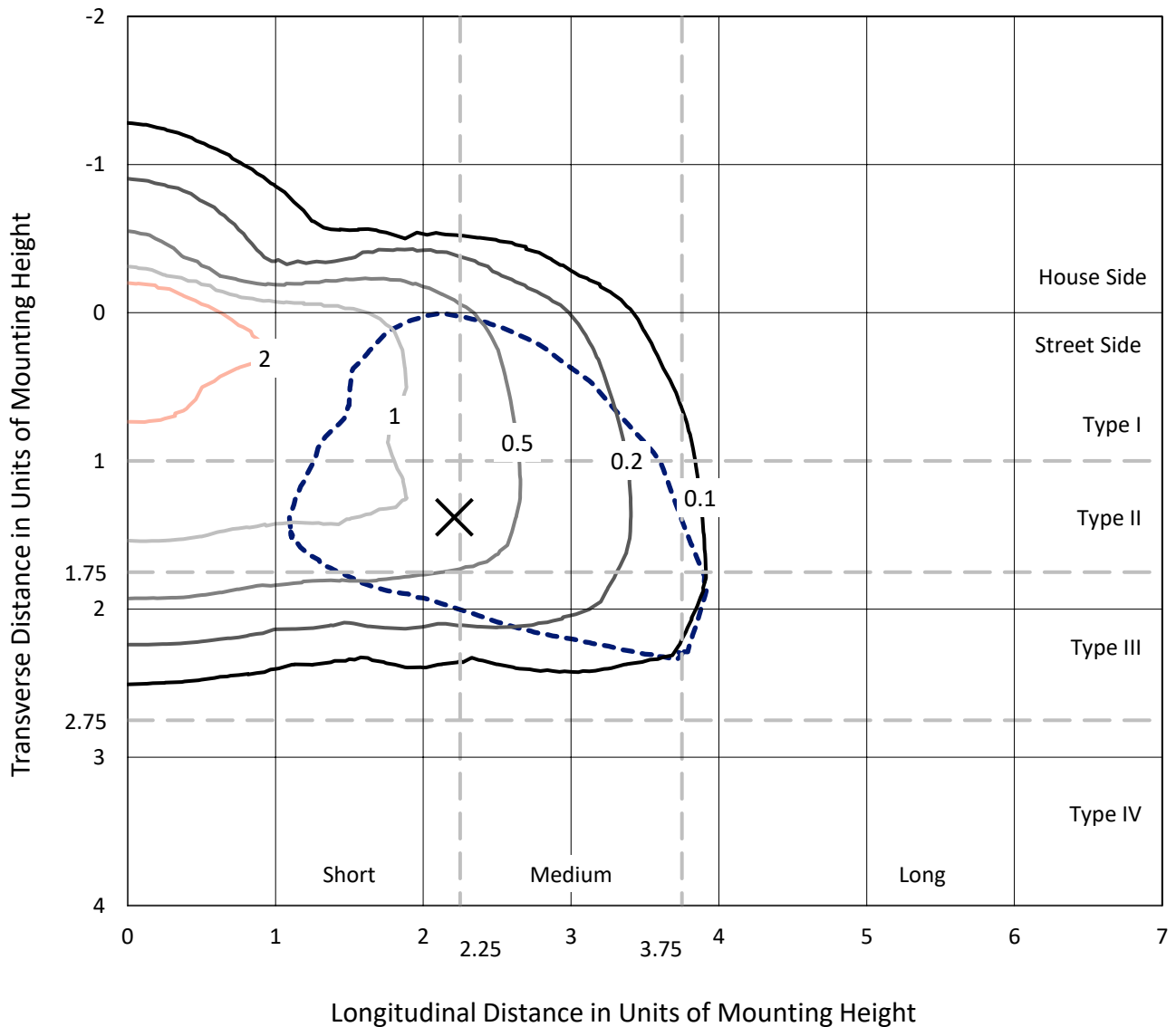
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

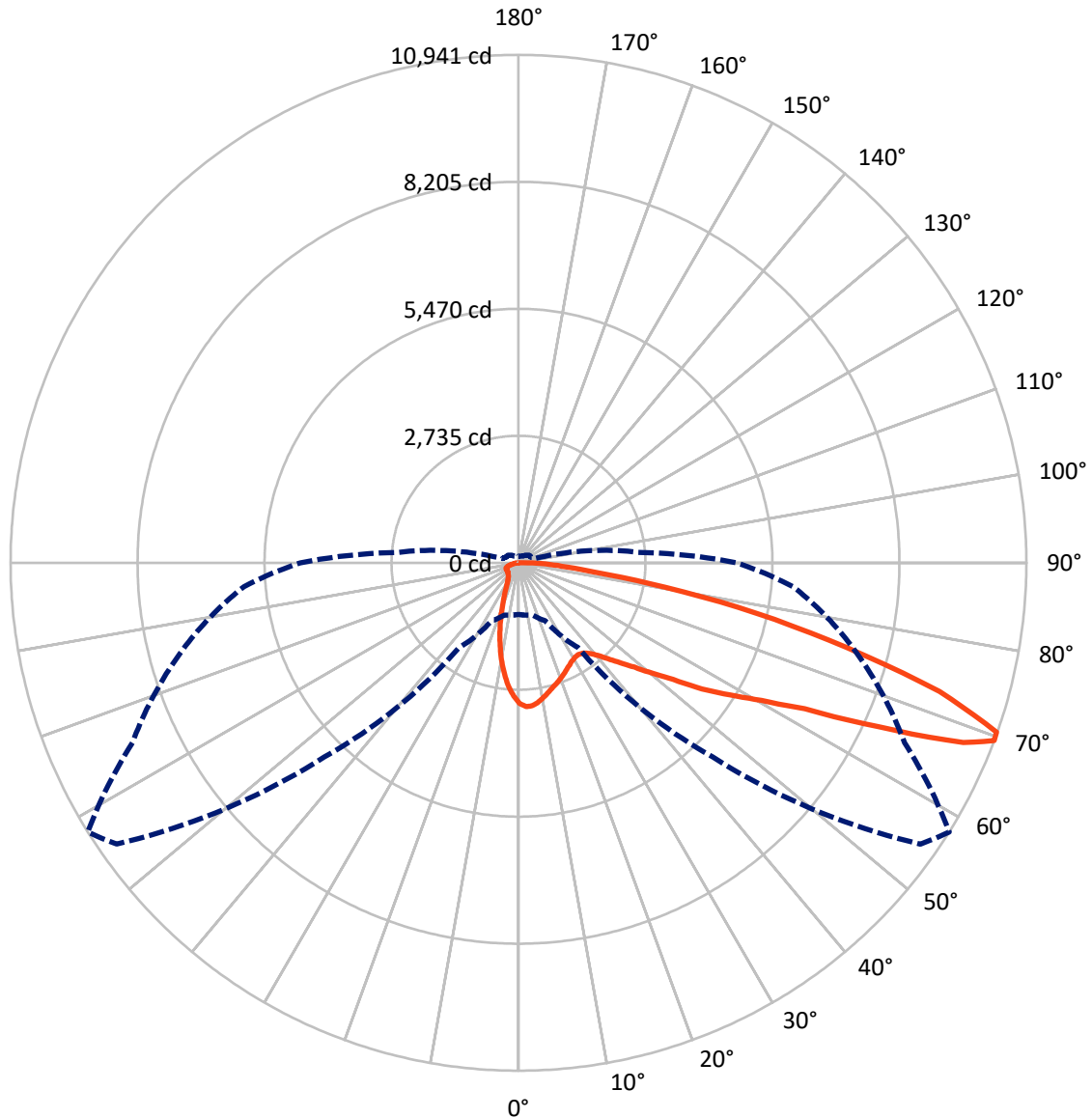
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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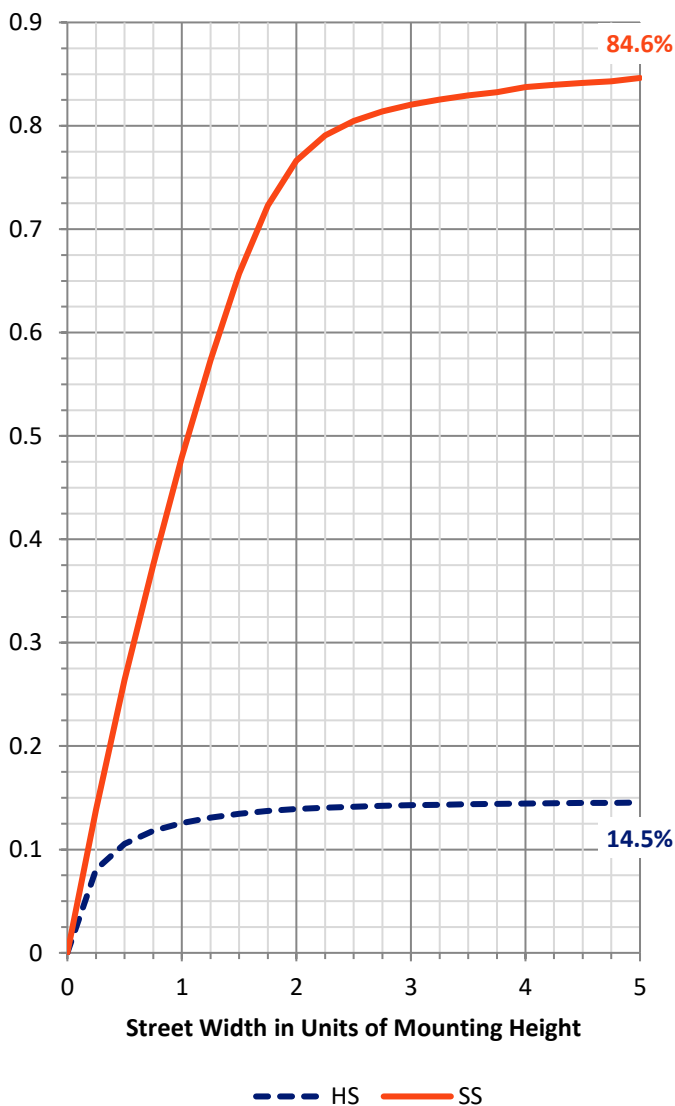
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1608.0	0.0	1608.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	9364.2	0.0	9364.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	10972.2	0.0	10972.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.5	2.3
10°-20°	565.4	5.2
20°-30°	730.5	6.7
30°-40°	948.8	8.6
40°-50°	1379.4	12.6
50°-60°	2201.1	20.1
60°-70°	2940.4	26.8
70°-80°	1695.0	15.4
80°-90°	253.9	2.3
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°	10972.2	100.0
0°-180°	10972.2	100.0

**Coefficient of Utilization**



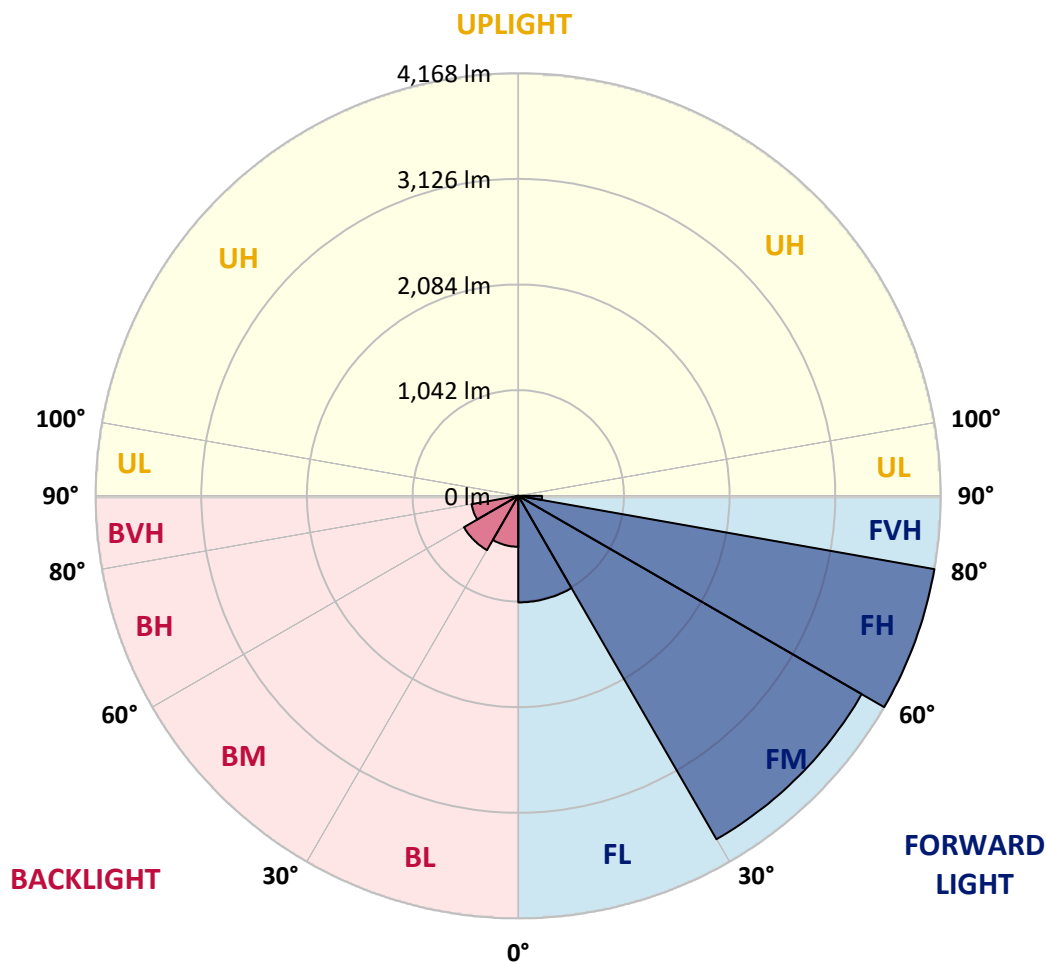
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.9	9.6			
FM (30°-60°)	3911.0	35.6			
FH (60°-80°)	4167.9	38.0			G2/5000
FVH (80°-90°)	234.4	2.1			G3/500
BL (0°-30°)	502.6	4.6	B2/1000		
BM (30°-60°)	618.4	5.6	B1/1000		
BH (60°-80°)	467.6	4.3	B1/500		G1/500
BVH (80°-90°)	19.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1
2.5°	3144.7	3153.2	3150.8	3147.7	3142.8	3129.3	3107.3	3103.7	3089.6	3059.6	3022.3
5°	3096.3	3103.7	3104.3	3108.6	3114.7	3112.3	3096.3	3094.5	3073.7	3033.3	2970.9
7.5°	2930.5	2940.2	2961.7	2985.6	3007.0	3027.2	3032.1	3035.1	3022.3	2975.8	2892.6
10°	2743.9	2753.7	2763.4	2798.9	2851.5	2901.7	2943.4	2948.9	2951.9	2909.1	2807.5
12.5°	2537.0	2557.2	2578.0	2630.6	2701.0	2780.0	2853.4	2865.0	2885.8	2853.4	2734.1
15°	2361.4	2382.2	2412.2	2459.3	2544.4	2658.2	2761.6	2780.6	2821.5	2805.0	2665.5
17.5°	2239.6	2247.0	2267.8	2321.6	2413.4	2533.3	2671.7	2709.6	2775.0	2770.8	2606.8
20°	2143.5	2152.7	2165.6	2198.7	2294.1	2420.7	2587.8	2636.8	2725.5	2740.2	2548.7
22.5°	2103.1	2109.9	2108.1	2125.8	2190.7	2318.0	2502.8	2560.9	2681.5	2719.4	2494.8
25°	2105.6	2111.8	2102.6	2098.3	2136.8	2227.4	2414.0	2488.1	2645.9	2705.3	2445.9
27.5°	2146.6	2150.9	2133.8	2116.6	2119.7	2171.1	2340.6	2422.6	2615.9	2711.5	2404.8
30°	2201.7	2209.6	2198.7	2177.8	2155.2	2157.6	2293.5	2374.3	2601.9	2732.8	2385.3
32.5°	2272.7	2280.0	2275.1	2258.6	2229.2	2196.8	2281.8	2356.5	2603.1	2776.3	2380.9
35°	2347.4	2362.0	2370.0	2368.7	2344.9	2288.6	2327.8	2389.6	2632.4	2849.1	2406.1
37.5°	2431.8	2444.0	2478.3	2500.3	2478.3	2412.8	2431.1	2474.0	2697.4	2954.3	2461.1
40°	2513.7	2532.1	2582.3	2650.8	2642.3	2584.8	2589.1	2617.2	2811.8	3111.0	2568.9
42.5°	2599.4	2621.5	2708.9	2810.6	2830.8	2786.1	2797.7	2822.8	2974.5	3328.2	2753.7
45°	2709.6	2735.9	2843.6	2970.2	3049.8	3022.3	3055.3	3067.6	3192.4	3611.0	2997.2
47.5°	2851.5	2882.1	3014.9	3172.8	3285.4	3310.5	3368.0	3360.6	3462.3	3945.7	3313.0
50°	3090.8	3108.0	3233.4	3394.3	3549.1	3662.3	3724.7	3736.4	3797.0	4271.2	3666.0
52.5°	3375.4	3390.6	3481.2	3621.9	3816.0	4055.8	4210.0	4172.1	4186.8	4667.7	4079.0
55°	3695.4	3721.1	3778.6	3872.2	4123.7	4476.8	4786.5	4795.6	4632.9	5047.1	4475.0
57.5°	3943.2	3986.6	4085.1	4218.6	4537.4	4945.0	5361.0	5367.2	5159.1	5452.2	4911.9
60°	3818.4	3869.8	4095.0	4419.9	5080.2	5761.9	6047.6	6012.7	5671.3	5913.6	5444.9
62.5°	3279.9	3289.1	3616.4	4124.4	5247.2	6854.8	7069.6	6922.0	6354.8	6498.6	5986.4
65°	2122.8	2182.7	2442.2	3153.8	4698.3	7461.1	8860.0	8519.2	7313.1	7162.6	6439.9
67.5°	1340.1	1324.8	1432.5	1800.9	3231.5	6927.0	10388.0	10334.1	8566.3	7581.7	6331.6
69°	1111.2	1128.4	1165.1	1380.5	2223.7	5914.2	10568.5	10940.5	9173.9	7548.7	5938.1
70°	1007.8	1015.8	1054.3	1223.8	1715.8	4953.5	10272.3	10924.0	9412.6	7410.4	5652.9
72.5°	799.8	799.1	865.3	1018.2	1282.6	2827.6	8434.7	9484.2	9145.8	6766.6	4670.8
75°	607.6	617.4	690.2	861.6	1181.6	1545.1	5886.0	7303.9	7304.5	5344.5	2914.6
77.5°	438.2	444.3	529.3	723.3	1113.1	1252.6	3920.6	5238.7	4924.8	2448.9	916.0
80°	287.0	290.6	355.6	572.8	1003.6	1181.6	2324.6	3206.5	2322.8	649.9	302.9
82.5°	157.2	175.6	217.2	370.8	805.3	1091.7	1412.9	1622.8	871.4	289.5	157.9
85°	78.9	83.9	122.4	216.7	526.3	903.2	984.0	930.8	449.8	143.8	82.0
87.5°	23.3	29.4	50.8	83.9	213.5	470.6	547.6	491.4	173.2	52.0	17.1
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°	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1	3032.1
2.5°	3007.0	2996.0	2947.0	2903.0	2862.6	2819.7	2783.6	2751.8	2754.8	2755.5	2723.0
5°	2938.4	2913.4	2820.4	2733.5	2660.0	2567.0	2487.4	2436.1	2410.4	2376.1	2388.3
7.5°	2845.4	2797.1	2668.0	2523.5	2388.3	2267.8	2136.8	2046.8	1989.4	1933.7	1941.0
10°	2749.3	2671.7	2483.8	2292.9	2117.9	1925.1	1758.1	1614.9	1508.4	1468.6	1442.3
12.5°	2650.8	2548.7	2310.0	2056.1	1814.4	1583.6	1346.8	1193.2	1075.8	1013.4	1021.3
15°	2560.9	2436.7	2128.9	1819.2	1505.3	1230.6	994.4	848.1	766.1	749.0	758.8
17.5°	2477.6	2314.9	1959.4	1589.2	1222.7	922.8	747.1	664.5	631.5	622.3	621.7
20°	2392.0	2211.5	1769.0	1343.2	952.8	715.3	613.2	574.6	568.5	572.1	572.8
22.5°	2305.1	2083.6	1573.3	1099.0	758.8	585.0	536.0	525.6	530.6	539.1	540.3
25°	2225.0	1971.0	1384.8	884.9	605.8	514.0	490.2	490.2	501.2	514.0	514.6
27.5°	2158.9	1862.1	1196.9	702.5	507.3	462.6	454.7	458.9	474.3	484.1	484.7
30°	2104.4	1760.5	1019.5	563.0	446.1	421.6	419.8	427.1	438.2	447.3	448.0
32.5°	2063.4	1671.2	853.6	473.0	403.9	390.4	389.8	395.3	401.4	403.9	406.3
35°	2047.5	1597.1	701.9	416.1	375.7	367.1	367.1	366.5	368.9	370.2	371.5
37.5°	2060.3	1540.2	584.4	379.4	354.9	348.8	345.1	341.5	340.2	340.2	340.8
40°	2114.8	1510.3	496.9	355.6	340.2	331.1	324.3	320.0	315.8	317.0	318.2
42.5°	2230.5	1515.7	437.5	339.6	327.4	314.5	304.7	299.8	296.8	300.4	299.8
45°	2414.6	1570.8	399.6	328.6	314.5	298.0	288.8	283.9	283.9	289.5	291.3
47.5°	2672.2	1676.1	379.4	320.0	304.7	285.2	276.0	272.3	273.5	282.7	283.3
50°	2986.8	1859.0	375.7	315.8	299.8	276.0	265.6	261.9	265.0	274.8	276.0
52.5°	3333.8	2094.6	393.5	316.3	295.6	270.4	257.0	251.5	254.6	262.5	265.0
55°	3744.9	2389.6	439.3	318.8	289.5	267.4	250.9	238.7	242.3	247.8	248.4
57.5°	4164.7	2761.6	520.1	319.4	284.5	261.9	240.5	224.6	224.6	228.2	230.0
60°	4677.5	3166.7	626.6	320.0	285.2	253.9	226.4	208.7	206.2	208.0	208.7
62.5°	5186.7	3505.7	644.3	318.2	291.3	246.0	211.1	192.8	188.5	187.8	186.7
65°	5411.2	3442.7	528.1	309.6	298.0	241.1	198.9	177.4	170.1	167.6	167.6
67.5°	5045.3	2912.1	397.1	298.0	293.7	236.2	187.2	164.6	156.1	151.1	151.1
69°	4701.4	2590.2	356.7	290.0	282.7	228.2	179.9	157.9	147.4	142.0	140.2
70°	4435.9	2368.7	339.6	283.3	272.3	219.1	174.4	153.0	141.3	135.2	134.0
72.5°	3539.9	1858.4	297.4	257.6	231.9	184.2	154.8	137.7	126.7	120.0	118.1
75°	2040.1	1007.3	246.6	223.9	186.7	143.2	130.9	120.0	111.3	105.2	103.4
77.5°	627.8	389.2	178.7	176.9	137.1	110.8	104.6	100.4	94.3	87.5	86.3
80°	264.3	198.3	121.1	119.3	91.1	77.1	75.2	74.6	72.2	66.7	64.8
82.5°	145.0	112.0	84.4	73.4	55.0	44.7	46.5	47.1	45.3	39.8	36.1
85°	71.0	61.2	41.0	33.0	25.1	15.9	15.3	18.3	17.1	12.2	13.5
87.5°	14.1	17.1	11.0	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
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)