

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: P646777

Luminaire Tested: **GALN-SA2C-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
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-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11049.7 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

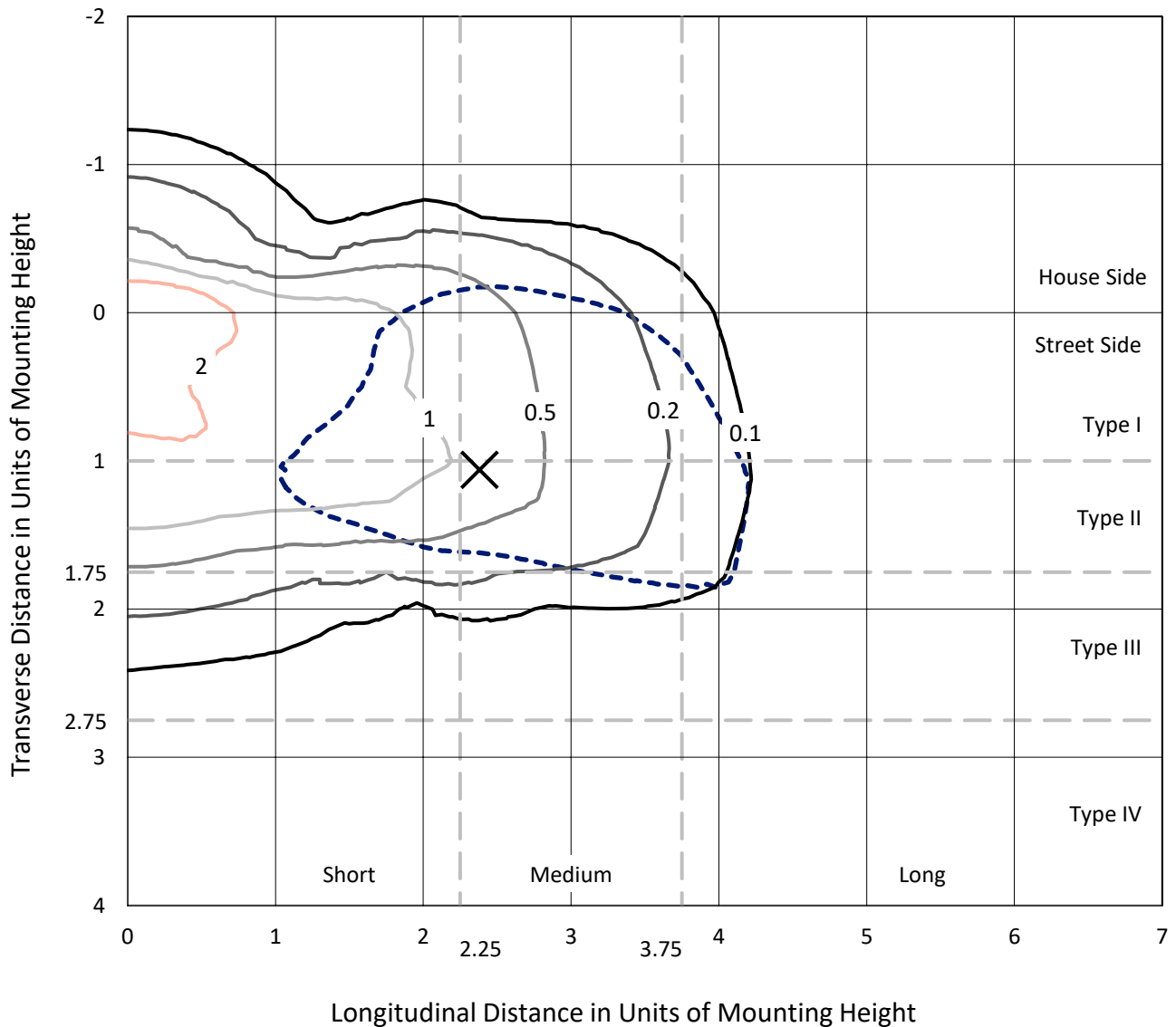
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

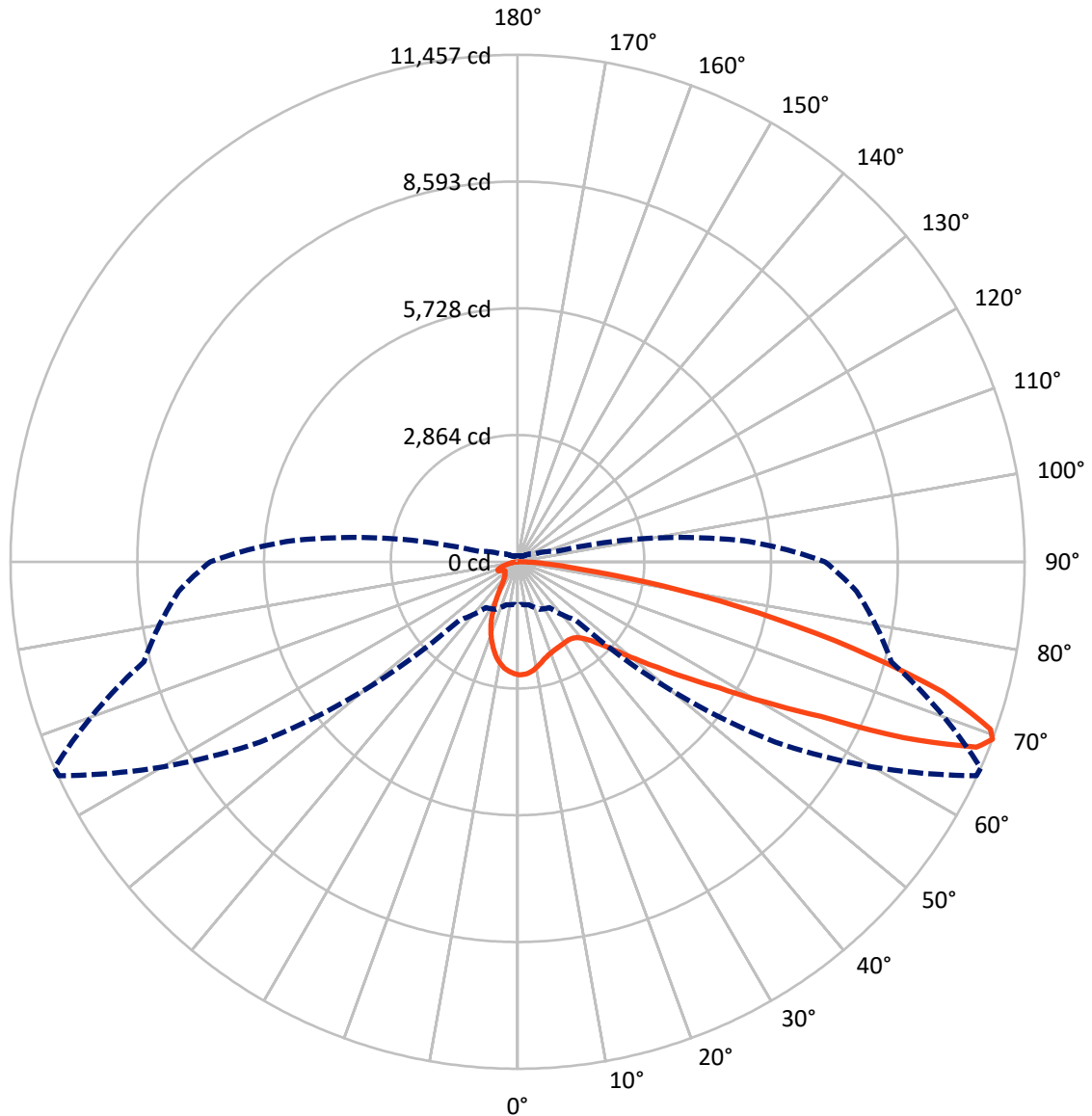
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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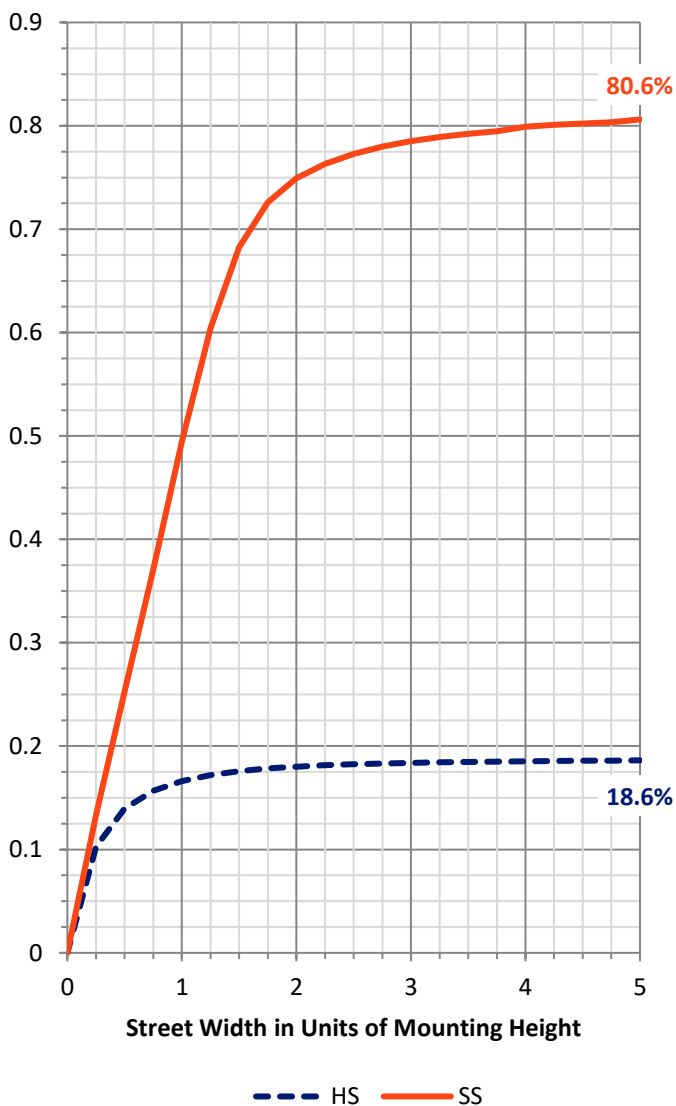
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2078.0	0.0	2078.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8971.7	0.0	8971.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	11049.7	0.0	11049.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.6	2.0
10°-20°	525.6	4.8
20°-30°	715.5	6.5
30°-40°	961.5	8.7
40°-50°	1435.7	13.0
50°-60°	2283.7	20.7
60°-70°	2808.8	25.4
70°-80°	1827.5	16.5
80°-90°	269.9	2.4
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°	11049.7	100.0
0°-180°	11049.7	100.0

**Coefficient of Utilization**

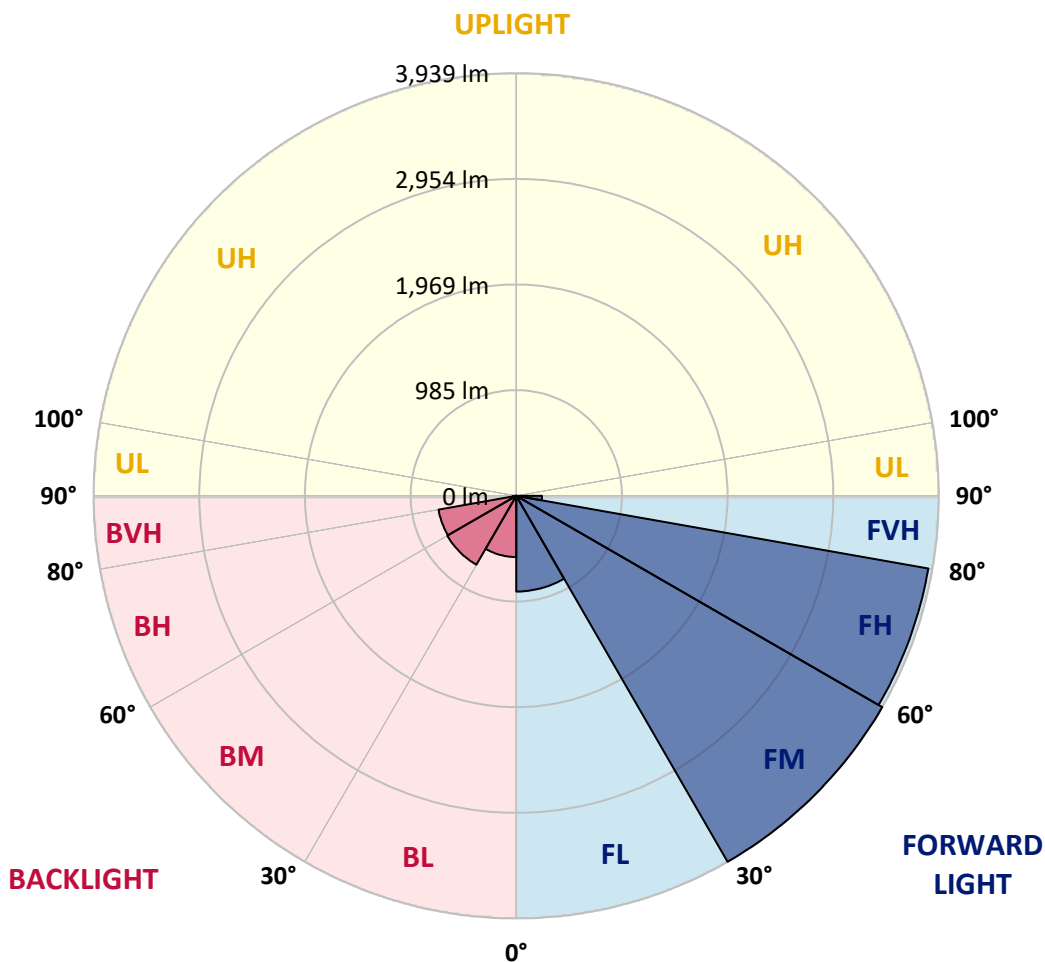


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.3	8.1			
FM (30°-60°)	3938.9	35.6			
FH (60°-80°)	3900.6	35.3			G2/5000
FVH (80°-90°)	239.9	2.2			G3/500
BL (0°-30°)	570.4	5.2	B2/1000		
BM (30°-60°)	742.0	6.7	B1/1000		
BH (60°-80°)	735.7	6.7	B2/1000		G2/1000
BVH (80°-90°)	29.9	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7
2.5°	2462.4	2472.2	2483.1	2495.4	2518.7	2531.5	2540.7	2551.1	2552.3	2557.8	2553.5
5°	2280.6	2292.2	2308.8	2332.0	2366.9	2421.3	2477.6	2523.5	2529.0	2554.8	2562.1
7.5°	2128.8	2135.6	2149.0	2186.4	2235.9	2296.5	2378.5	2471.5	2485.0	2546.2	2567.6
10°	2005.3	2012.0	2027.9	2066.4	2115.4	2191.2	2281.2	2403.6	2414.6	2519.9	2568.8
12.5°	1912.9	1919.0	1936.1	1974.0	2030.3	2101.3	2200.5	2330.2	2346.1	2485.0	2557.2
15°	1842.5	1854.1	1868.2	1899.4	1958.8	2027.3	2123.3	2262.9	2275.7	2448.3	2549.2
17.5°	1812.5	1818.0	1827.8	1856.6	1900.0	1967.3	2064.0	2210.3	2225.5	2422.6	2547.4
20°	1813.7	1819.2	1821.0	1837.0	1868.2	1926.3	2021.8	2168.6	2187.0	2399.9	2550.5
22.5°	1855.3	1855.9	1849.2	1843.7	1855.9	1904.3	1991.8	2137.4	2158.8	2390.1	2552.9
25°	1919.6	1930.6	1920.8	1895.1	1872.5	1895.7	1980.1	2120.3	2140.5	2376.1	2549.8
27.5°	2023.6	2025.5	2017.5	1982.6	1923.8	1906.8	1975.3	2107.4	2124.6	2365.7	2534.6
30°	2163.1	2157.6	2150.3	2111.8	2019.3	1949.0	1985.7	2095.8	2113.6	2350.3	2516.2
32.5°	2304.4	2321.6	2314.9	2269.6	2149.6	2030.9	2019.3	2094.6	2109.2	2338.7	2496.0
35°	2454.4	2462.4	2494.2	2470.9	2347.9	2163.7	2082.3	2113.6	2125.1	2339.4	2482.0
37.5°	2571.8	2593.3	2667.9	2688.1	2572.5	2339.4	2184.6	2167.4	2172.3	2369.4	2487.4
40°	2713.9	2750.5	2846.6	2929.2	2853.3	2567.6	2358.3	2267.2	2273.3	2441.6	2523.5
42.5°	2893.7	2919.4	3048.5	3160.5	3148.3	2869.3	2568.8	2430.5	2433.6	2585.3	2624.5
45°	3104.2	3140.9	3286.0	3454.3	3483.0	3210.7	2872.9	2677.7	2675.9	2808.7	2813.0
47.5°	3373.5	3396.1	3539.9	3723.5	3839.8	3639.7	3241.9	3032.6	3013.1	3134.2	3099.3
50°	3621.3	3656.8	3765.7	3966.4	4255.8	4142.1	3727.2	3492.8	3446.9	3560.1	3501.3
52.5°	3725.4	3762.6	3854.5	4103.5	4612.6	4791.9	4343.4	4041.7	3965.2	4052.1	4030.6
55°	3544.8	3593.2	3678.8	3981.7	4769.3	5541.5	5174.4	4676.2	4620.6	4583.2	4589.3
57.5°	3059.6	3105.5	3221.1	3555.2	4582.0	6085.5	6360.9	5492.0	5372.6	5200.7	5230.0
60°	2329.0	2357.7	2417.7	2787.9	4027.0	6226.8	7708.2	6523.0	6447.1	5815.7	5836.4
62.5°	1654.0	1686.4	1728.1	1912.9	2948.2	5828.5	8763.3	7962.9	7691.7	6452.6	6432.4
65°	1343.2	1321.2	1371.3	1457.6	1729.9	4517.1	9000.7	9961.3	9588.1	7291.5	7011.3
67.5°	1104.5	1081.2	1130.8	1284.4	1315.6	2622.0	8145.2	11258.6	11184.0	8204.0	7599.3
69°	977.8	965.6	1009.1	1184.1	1263.0	1862.1	7095.8	11439.2	11456.9	8741.8	7689.9
70°	881.2	886.0	928.2	1133.2	1239.1	1535.3	6064.6	11190.1	11340.6	9010.5	7592.0
72.5°	648.6	659.1	717.8	938.7	1216.5	1302.8	3609.1	9774.1	10040.3	9026.3	6945.2
75°	453.4	448.5	500.6	706.7	1149.2	1291.2	2119.7	7559.0	7860.6	7801.9	5835.9
77.5°	296.8	304.7	346.3	499.3	966.8	1281.4	1381.7	5362.8	5558.6	5217.8	3451.8
80°	209.3	208.7	231.9	340.8	717.1	1231.2	1131.4	3380.2	3330.6	2050.5	1023.7
82.5°	120.0	128.5	155.4	239.8	479.7	1083.7	1040.8	1616.7	1476.0	584.4	345.7
85°	66.7	69.8	92.4	145.0	280.2	816.3	908.7	735.6	693.9	244.1	148.7
87.5°	21.5	23.3	38.5	73.4	127.3	385.5	514.6	339.6	313.3	88.1	60.0
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°	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7
2.5°	2555.3	2562.7	2543.1	2524.2	2507.0	2483.1	2461.8	2444.0	2431.8	2429.9	2423.8
5°	2563.9	2564.6	2527.2	2477.0	2428.1	2374.2	2318.5	2278.8	2241.4	2220.7	2210.3
7.5°	2570.0	2564.6	2497.2	2415.9	2321.6	2223.7	2125.8	2047.5	1986.9	1963.1	1972.2
10°	2567.6	2550.5	2452.0	2321.6	2184.6	2038.3	1897.5	1787.4	1686.4	1634.4	1635.6
12.5°	2554.1	2526.0	2384.6	2215.7	2014.4	1818.6	1603.2	1454.5	1337.7	1268.5	1247.1
15°	2542.5	2493.5	2305.7	2072.0	1821.6	1542.0	1279.5	1096.0	998.0	943.6	943.0
17.5°	2530.3	2462.4	2219.4	1919.6	1600.1	1240.4	965.0	824.9	778.9	784.5	775.3
20°	2517.4	2425.7	2129.4	1750.1	1330.3	925.2	722.7	665.8	678.6	703.7	707.4
22.5°	2502.7	2386.4	2032.7	1563.4	1046.4	696.3	586.2	577.6	610.7	649.9	655.4
25°	2480.1	2337.5	1911.0	1368.2	807.1	561.1	513.4	519.5	551.9	585.0	588.7
27.5°	2448.3	2277.0	1788.0	1124.7	606.4	481.5	469.3	477.3	493.2	513.4	518.3
30°	2405.5	2208.4	1646.6	914.2	485.9	441.8	436.9	441.2	450.4	458.9	461.4
32.5°	2362.6	2142.3	1504.1	700.0	433.2	415.5	410.6	410.6	410.6	411.8	412.4
35°	2322.8	2079.9	1351.1	545.2	405.7	394.7	388.0	380.6	379.4	375.1	375.1
37.5°	2300.8	2023.0	1188.4	456.5	385.5	377.6	368.4	356.1	349.4	350.0	348.8
40°	2305.1	1985.7	1040.2	406.3	368.9	360.4	346.3	332.3	328.0	328.0	326.7
42.5°	2353.4	1973.4	898.3	380.0	353.1	343.3	325.6	312.7	310.2	309.6	310.9
45°	2464.8	2003.4	771.0	362.8	339.6	324.9	307.2	295.6	293.1	293.1	292.5
47.5°	2682.0	2100.7	679.8	351.9	329.8	310.9	292.5	280.9	276.6	275.4	275.4
50°	3019.8	2311.8	611.9	342.1	317.6	298.0	279.1	265.6	258.9	258.2	257.6
52.5°	3489.1	2641.1	585.6	334.7	304.1	284.5	263.7	250.9	242.3	240.5	239.3
55°	4038.0	3100.6	621.7	329.2	290.0	269.3	247.8	234.4	226.4	222.8	222.1
57.5°	4673.8	3652.5	758.8	321.9	277.2	252.8	231.9	218.5	209.9	205.6	204.4
60°	5244.7	4219.7	998.0	317.6	266.2	235.0	213.5	201.3	193.4	189.1	188.5
62.5°	5872.0	4760.7	1283.8	329.2	261.3	217.8	196.5	185.4	178.7	174.4	174.4
65°	6542.0	5302.2	1472.9	368.4	268.6	204.4	178.1	168.9	162.8	159.7	159.1
67.5°	6993.6	5489.5	1213.4	408.7	287.0	189.7	160.4	153.0	149.3	146.3	146.3
69°	6944.6	5252.7	895.2	419.1	292.5	182.4	150.5	145.0	140.2	138.9	137.7
70°	6789.8	4982.9	750.2	412.4	288.2	175.6	144.4	137.7	133.4	132.2	131.5
72.5°	6047.6	4321.3	558.7	358.6	245.4	152.4	127.9	121.8	118.1	116.3	116.3
75°	5024.4	3532.0	436.3	285.2	192.1	128.5	109.5	104.6	101.6	100.4	99.8
77.5°	2816.1	1972.2	313.3	223.3	145.6	104.1	91.8	87.5	84.4	83.2	83.2
80°	784.5	563.6	184.2	147.4	99.1	78.9	72.8	69.8	65.5	62.4	64.3
82.5°	295.6	244.1	105.2	88.7	63.0	52.6	50.8	48.3	46.5	42.2	42.2
85°	143.8	118.7	67.3	47.1	34.8	27.6	26.3	25.1	23.9	20.8	21.5
87.5°	49.6	52.6	29.4	17.1	10.4	6.7	5.5	3.1	3.1	3.1	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)