

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: P319467

Luminaire Tested: **GLEON-SA3A-827-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA 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: 10245 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

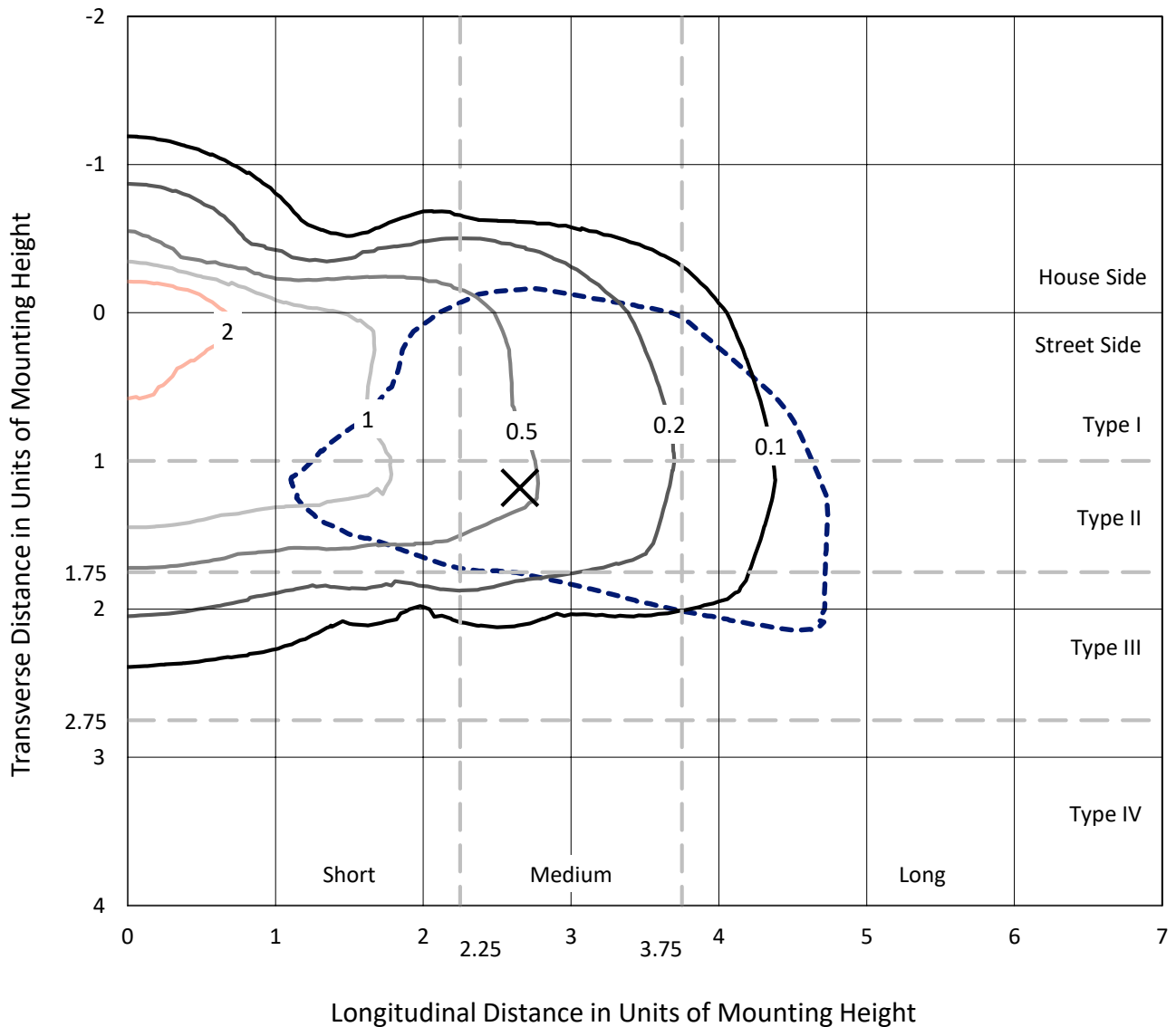
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

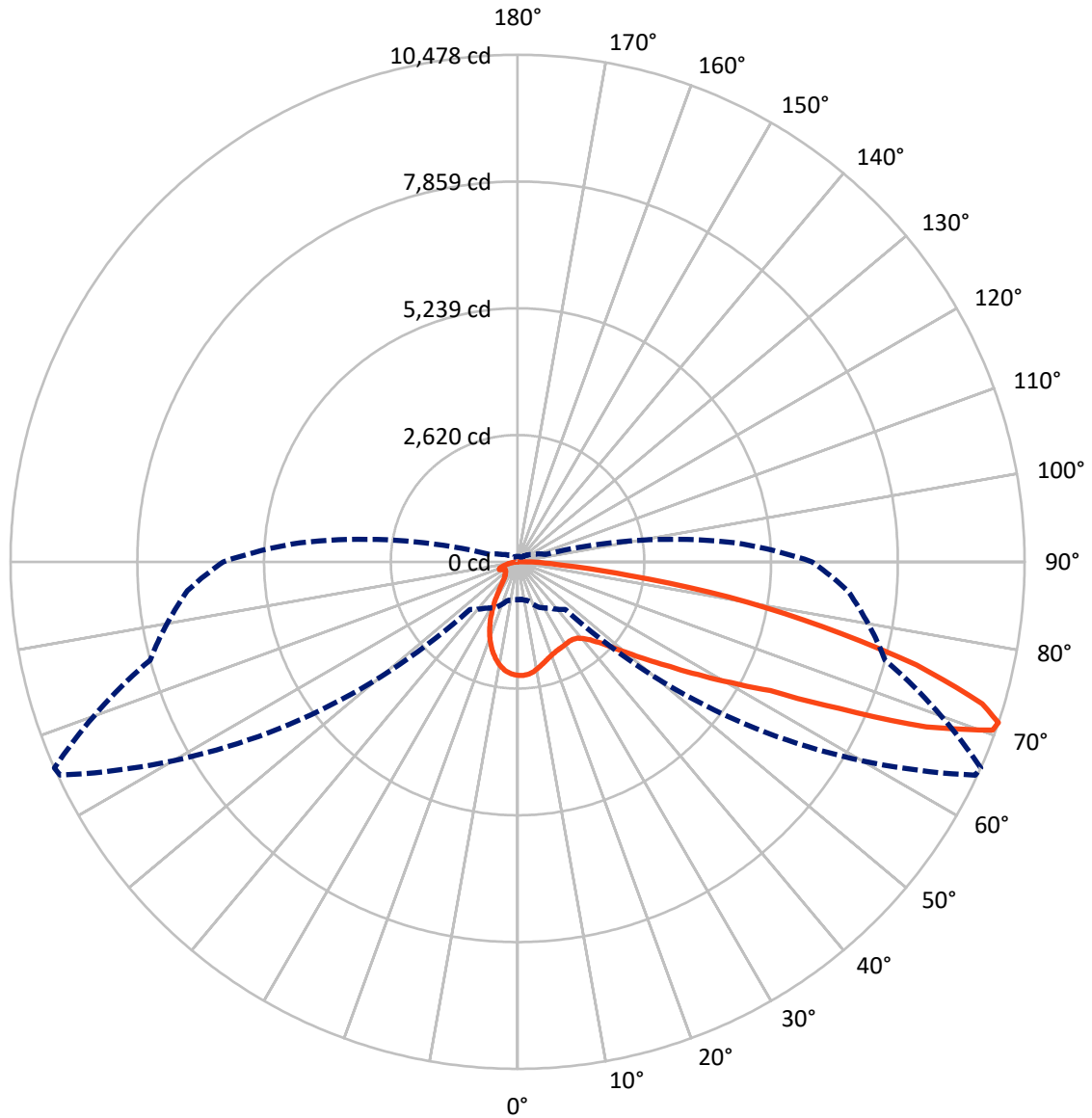
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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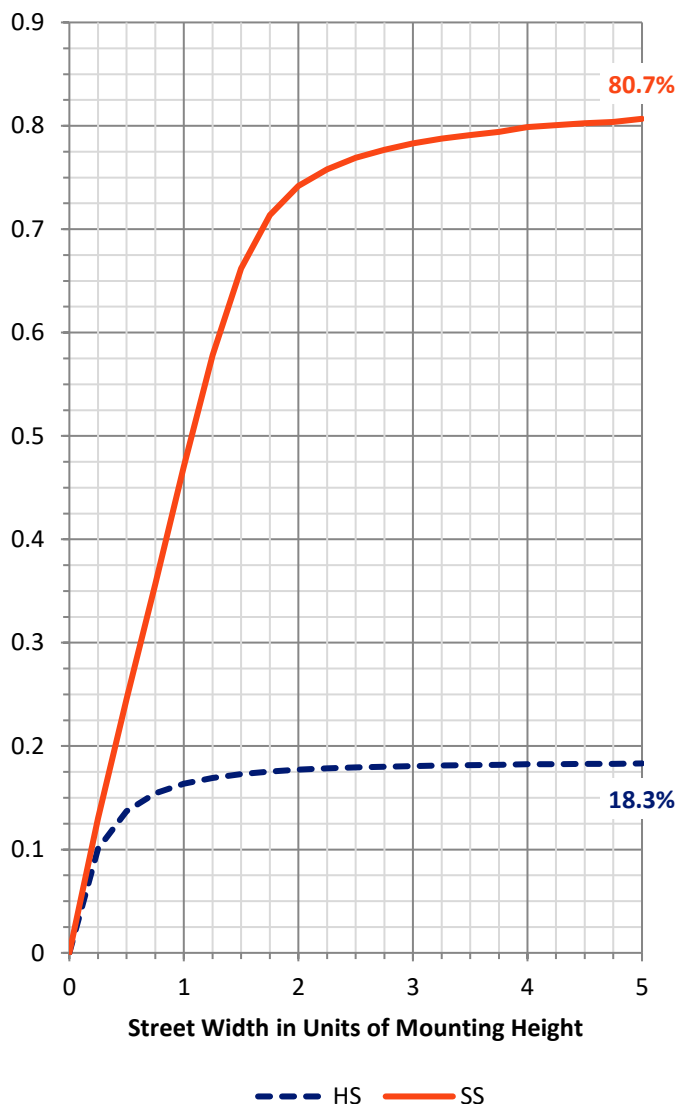
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1898.7	0.0	1898.7
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	8346.3	0.0	8346.3
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	10245.0	0.0	10245.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.6	2.0
10°-20°	495.5	4.8
20°-30°	665.6	6.5
30°-40°	875.5	8.5
40°-50°	1273.7	12.4
50°-60°	1989.6	19.4
60°-70°	2492.3	24.3
70°-80°	1901.1	18.6
80°-90°	345.2	3.4
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°	10245.0	100.0
0°-180°	10245.0	100.0

**Coefficient of Utilization**

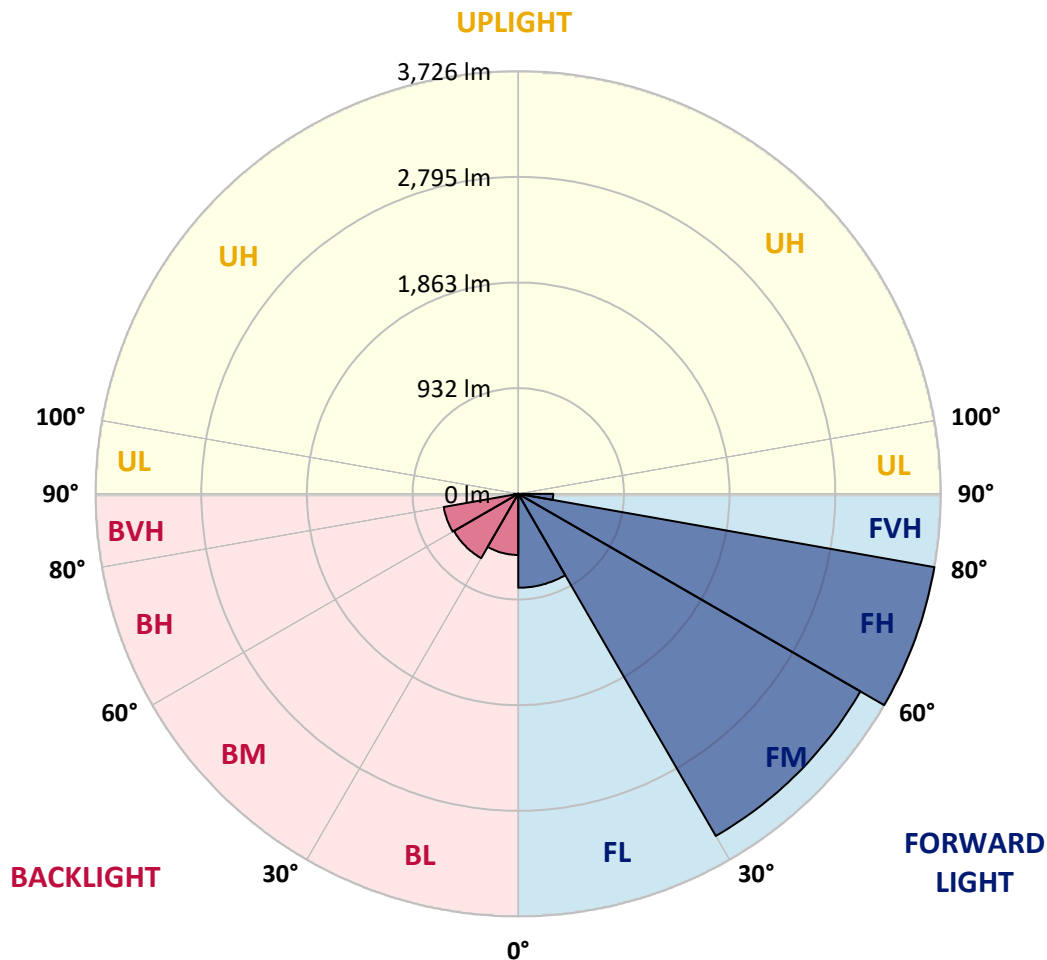


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.5	8.1			
FM (30°-60°)	3483.8	34.0			
FH (60°-80°)	3726.2	36.4			G2/5000
FVH (80°-90°)	307.8	3.0			G3/500
BL (0°-30°)	539.2	5.3	B2/1000		
BM (30°-60°)	655.0	6.4	B1/1000		
BH (60°-80°)	667.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	37.4	0.4			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°	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9
2.5°	2303.4	2299.9	2310.5	2321.5	2325.7	2332.8	2343.4	2349.4	2349.1	2350.1	2346.6
5°	2150.6	2146.0	2167.2	2184.6	2217.8	2255.3	2300.9	2333.5	2334.2	2352.6	2357.5
7.5°	2005.9	2002.8	2027.2	2055.1	2093.7	2151.0	2224.9	2294.9	2299.2	2349.1	2366.4
10°	1889.9	1889.2	1912.9	1943.3	1988.3	2052.3	2137.2	2239.8	2246.1	2332.1	2367.8
12.5°	1799.4	1800.8	1821.3	1856.0	1903.4	1970.2	2062.2	2177.9	2188.1	2305.2	2359.7
15°	1732.5	1738.2	1754.8	1789.8	1836.5	1904.4	1998.9	2120.6	2136.1	2275.1	2355.1
17.5°	1694.3	1700.7	1712.4	1741.4	1785.2	1850.7	1940.2	2073.5	2087.7	2252.1	2355.4
20°	1683.0	1688.3	1695.0	1712.7	1749.9	1809.3	1893.8	2031.1	2046.3	2233.7	2359.0
22.5°	1705.3	1709.2	1709.9	1708.5	1731.1	1779.6	1860.2	1999.9	2016.2	2221.7	2361.4
25°	1753.0	1758.3	1754.5	1741.4	1733.9	1763.6	1842.9	1979.4	1995.7	2212.9	2356.5
27.5°	1824.8	1825.5	1822.4	1805.4	1770.4	1765.4	1837.6	1967.4	1983.0	2202.6	2346.2
30°	1922.5	1927.1	1921.4	1898.4	1841.1	1793.7	1843.9	1955.7	1969.9	2189.5	2329.6
32.5°	2036.7	2048.0	2047.7	2023.6	1941.6	1857.0	1870.1	1948.6	1959.6	2175.7	2309.4
35°	2155.2	2170.8	2199.8	2189.5	2088.0	1957.1	1920.3	1960.0	1967.4	2174.0	2295.3
37.5°	2278.3	2293.9	2353.7	2381.2	2262.4	2100.4	1999.6	1999.9	2003.5	2195.5	2294.2
40°	2407.1	2423.7	2513.5	2585.3	2488.4	2281.8	2127.3	2083.4	2079.5	2248.6	2315.1
42.5°	2587.5	2602.3	2710.2	2801.8	2739.2	2514.2	2303.8	2212.2	2204.0	2352.6	2381.9
45°	2815.6	2828.3	2942.9	3040.9	3008.7	2779.5	2525.6	2389.4	2388.0	2525.9	2517.4
47.5°	3086.9	3096.8	3199.7	3294.5	3306.2	3084.8	2804.3	2662.8	2639.8	2763.6	2727.2
50°	3369.5	3380.5	3450.5	3552.4	3639.1	3493.3	3163.0	2997.8	2967.0	3077.4	3024.3
52.5°	3556.7	3571.2	3632.0	3761.1	4013.3	3941.1	3587.1	3403.8	3357.2	3457.6	3416.9
55°	3473.2	3505.7	3598.7	3805.7	4312.6	4625.2	4110.2	3877.5	3824.8	3908.3	3884.2
57.5°	3093.6	3138.2	3265.2	3584.6	4354.6	5228.0	4901.1	4435.3	4398.2	4374.1	4385.1
60°	2400.0	2442.8	2600.2	3016.5	4061.4	5668.0	6091.4	5122.9	5069.2	4841.7	4851.6
62.5°	1698.6	1677.0	1784.9	2089.4	3300.2	5719.6	7445.8	6042.6	5865.7	5335.5	5292.0
65°	1295.3	1290.4	1338.8	1435.7	1998.9	5101.7	8252.6	7588.4	7312.1	5916.3	5813.7
67.5°	1064.3	1055.5	1103.3	1244.4	1287.2	3291.4	8270.3	9381.7	9110.4	6639.3	6417.2
70°	875.1	865.2	909.8	1091.9	1189.6	1669.2	6960.5	10431.9	10417.4	7554.7	6872.8
71°	784.6	777.5	830.9	1033.2	1168.7	1391.2	6009.7	10434.7	10478.2	7864.6	6845.9
72.5°	638.8	641.3	697.9	919.7	1153.1	1228.5	4416.9	9948.4	10040.3	8160.0	6601.5
75°	424.5	426.6	500.9	707.4	1118.1	1201.9	2427.6	8347.8	8516.9	7983.1	6023.8
77.5°	285.1	284.4	335.0	485.3	974.1	1201.9	1423.4	6243.5	6429.2	6352.1	4644.0
80°	196.3	194.9	230.6	335.0	737.5	1216.4	1100.4	4375.5	4431.8	3430.4	1887.4
82.5°	120.3	121.3	150.7	236.6	501.9	1094.8	1038.9	2385.8	2324.6	962.1	471.5
85°	69.0	68.6	96.2	160.2	322.2	923.9	1013.1	1026.8	942.0	289.7	170.5
87.5°	24.8	26.5	51.6	88.8	184.6	643.4	859.5	534.1	481.4	130.9	77.1
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°	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9
2.5°	2344.1	2346.2	2343.7	2329.6	2317.6	2298.1	2287.2	2271.9	2267.3	2265.2	2270.9
5°	2352.9	2353.7	2332.8	2295.6	2253.9	2204.7	2169.4	2125.9	2105.3	2096.5	2102.2
7.5°	2361.1	2357.9	2312.3	2241.2	2164.1	2078.5	2002.4	1932.7	1892.0	1875.4	1876.8
10°	2362.1	2348.7	2275.5	2165.5	2045.9	1920.3	1803.6	1696.1	1628.2	1584.0	1597.4
12.5°	2351.2	2328.5	2221.4	2067.5	1901.6	1730.4	1572.6	1411.3	1314.4	1269.5	1270.9
15°	2342.7	2301.7	2154.9	1952.2	1729.3	1502.6	1287.2	1097.6	994.3	948.3	926.7
17.5°	2335.6	2272.6	2077.8	1822.4	1525.9	1238.4	979.5	810.4	753.8	740.3	734.7
20°	2325.7	2241.9	1991.8	1672.0	1294.3	942.7	715.2	631.7	632.1	647.7	649.8
22.5°	2311.9	2206.9	1900.2	1503.3	1045.6	686.6	560.6	536.6	561.0	590.7	596.0
25°	2291.4	2165.5	1798.3	1316.9	797.3	527.8	478.9	477.9	507.6	538.7	543.3
27.5°	2262.4	2111.4	1685.1	1116.7	587.5	448.5	429.1	436.5	458.4	481.1	482.8
30°	2223.5	2048.4	1560.3	905.5	460.5	399.3	397.2	403.9	417.4	433.3	434.7
32.5°	2180.7	1984.4	1426.9	701.1	394.4	372.8	374.9	378.1	384.5	390.9	392.3
35°	2141.8	1918.9	1290.4	532.7	362.9	355.5	354.1	353.4	354.1	352.0	352.3
37.5°	2116.7	1864.8	1148.2	424.1	344.9	340.3	336.0	330.7	324.7	321.2	321.9
40°	2107.5	1824.5	1004.2	366.5	330.0	326.8	318.7	307.4	300.3	298.2	298.2
42.5°	2132.2	1803.6	865.2	337.4	317.6	312.3	298.9	285.8	280.5	280.1	279.8
45°	2207.9	1812.1	732.9	321.5	306.3	296.1	278.4	267.4	263.9	264.6	264.2
47.5°	2343.7	1865.5	619.7	310.9	295.0	281.6	261.8	252.9	248.7	248.7	249.0
50°	2574.7	1990.4	529.5	302.1	285.5	268.1	249.7	238.8	233.1	232.7	232.7
52.5°	2911.1	2213.9	473.3	294.6	274.8	256.1	237.7	223.9	217.2	215.8	215.1
55°	3332.7	2534.4	457.7	289.7	260.7	243.0	223.2	209.4	202.0	198.8	198.4
57.5°	3804.3	2924.2	488.5	283.7	246.2	227.4	207.3	194.2	186.4	182.5	182.2
60°	4281.4	3349.7	614.1	275.2	234.2	210.5	191.0	179.0	171.2	167.0	166.2
62.5°	4759.3	3798.2	870.5	274.5	225.7	194.2	174.4	164.1	156.7	152.1	151.0
65°	5298.4	4289.2	1162.0	293.2	222.8	179.3	157.4	149.3	142.9	138.7	138.3
67.5°	5917.4	4843.5	1134.0	331.8	232.4	165.9	141.5	135.1	130.5	127.0	126.6
70°	6207.8	4756.8	705.0	359.0	245.8	152.8	126.3	121.7	118.1	115.7	114.6
71°	6086.1	4516.6	591.1	355.8	244.4	147.1	120.3	116.7	113.2	111.1	110.0
72.5°	5754.3	4119.1	493.1	331.1	228.5	136.9	112.5	108.9	105.8	103.3	102.6
75°	5163.6	3678.7	394.8	264.6	182.2	115.7	98.7	94.8	92.3	90.9	89.5
77.5°	3795.8	2625.3	305.3	209.0	134.1	94.4	84.2	81.4	78.9	76.8	75.7
80°	1454.1	1016.9	205.5	156.0	98.3	74.6	67.9	66.5	64.0	62.6	62.6
82.5°	391.6	303.8	109.7	94.4	65.8	54.5	52.0	51.3	49.2	46.3	46.7
85°	158.5	134.1	61.5	52.0	40.3	32.2	35.0	35.4	32.9	29.4	29.7
87.5°	69.7	56.9	34.3	23.0	17.7	12.4	15.9	15.9	14.5	12.0	11.0
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)