

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: P317551

Luminaire Tested: **GLEON-SA7A-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7A-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25245 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

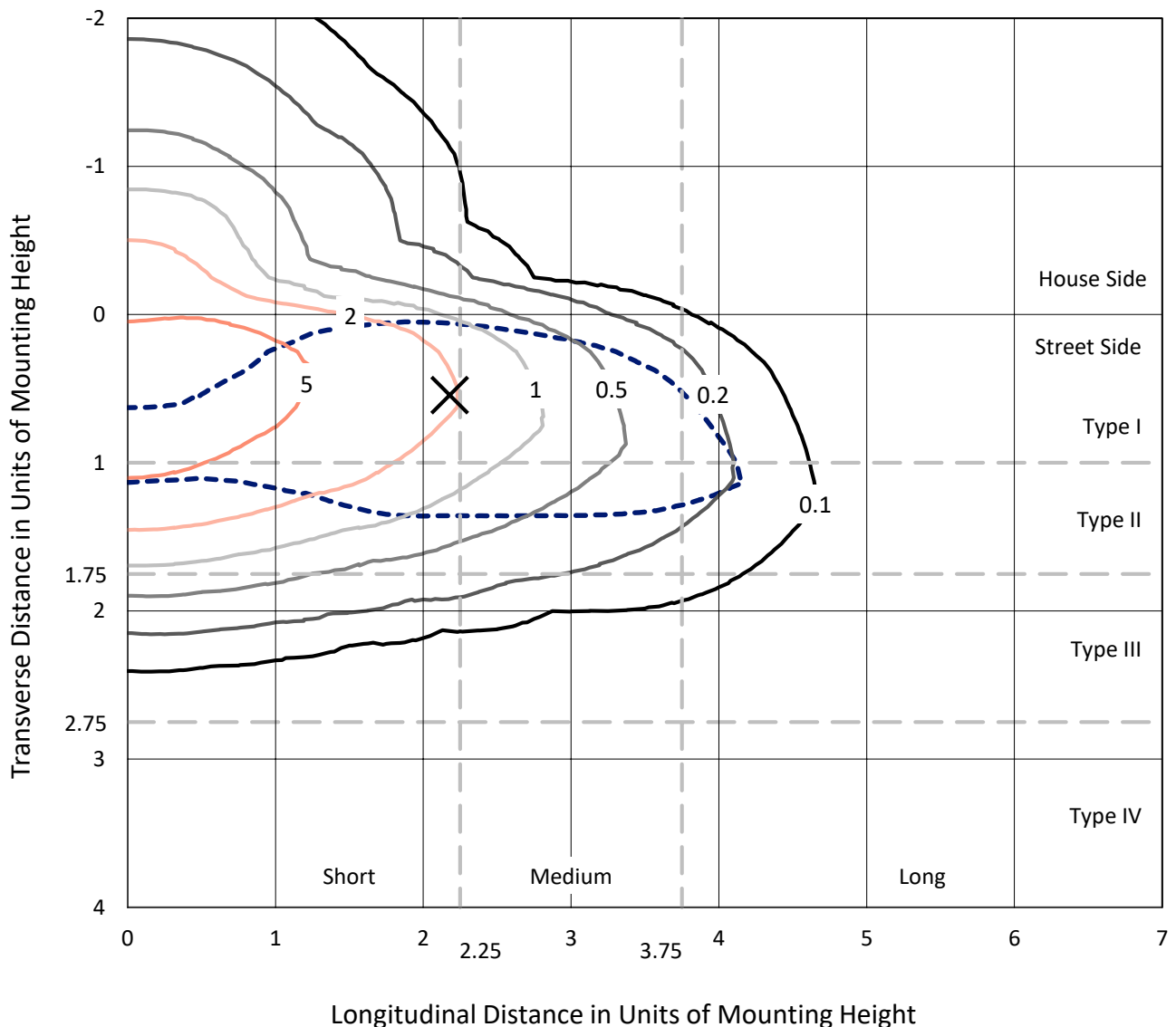
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

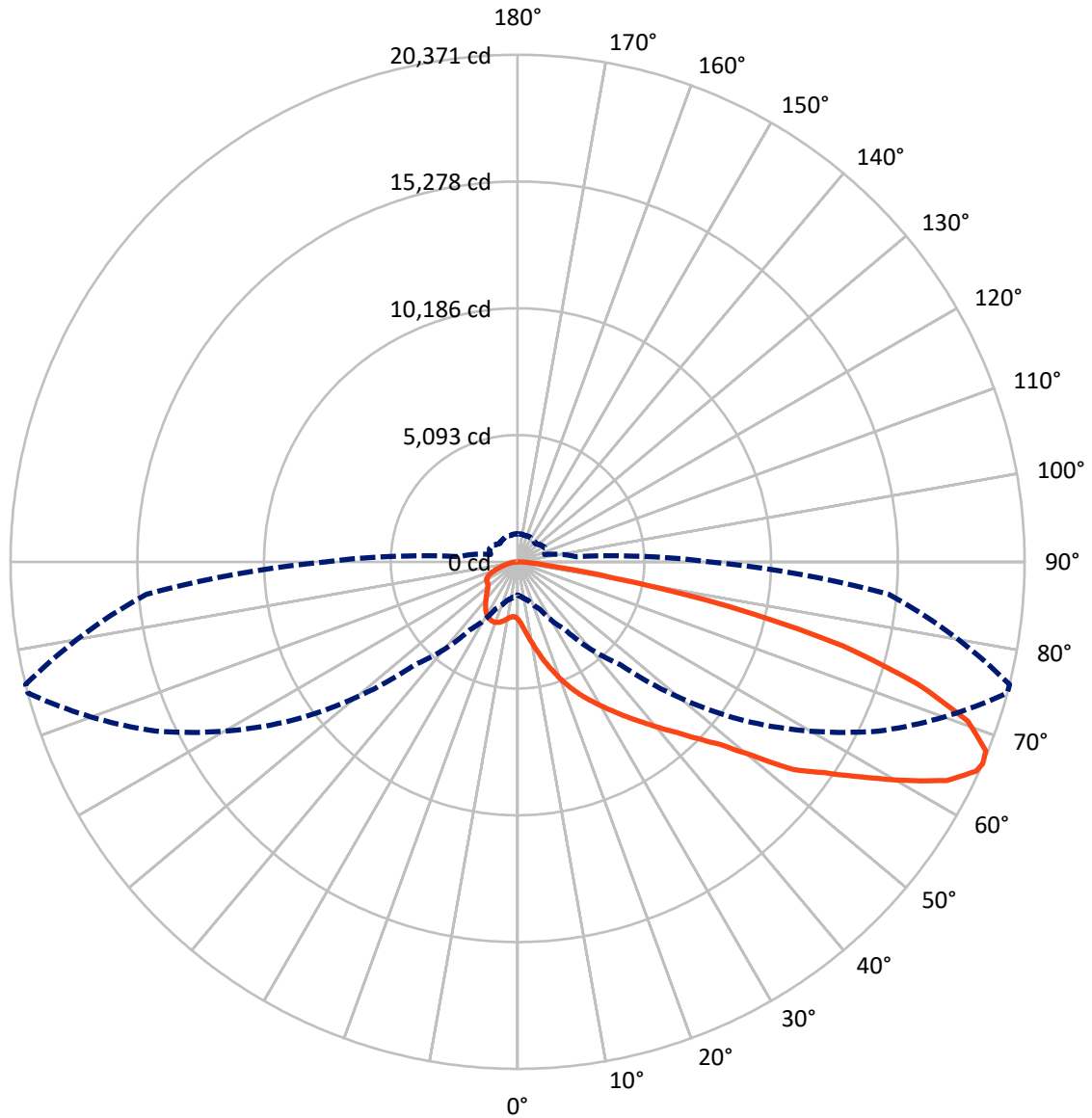
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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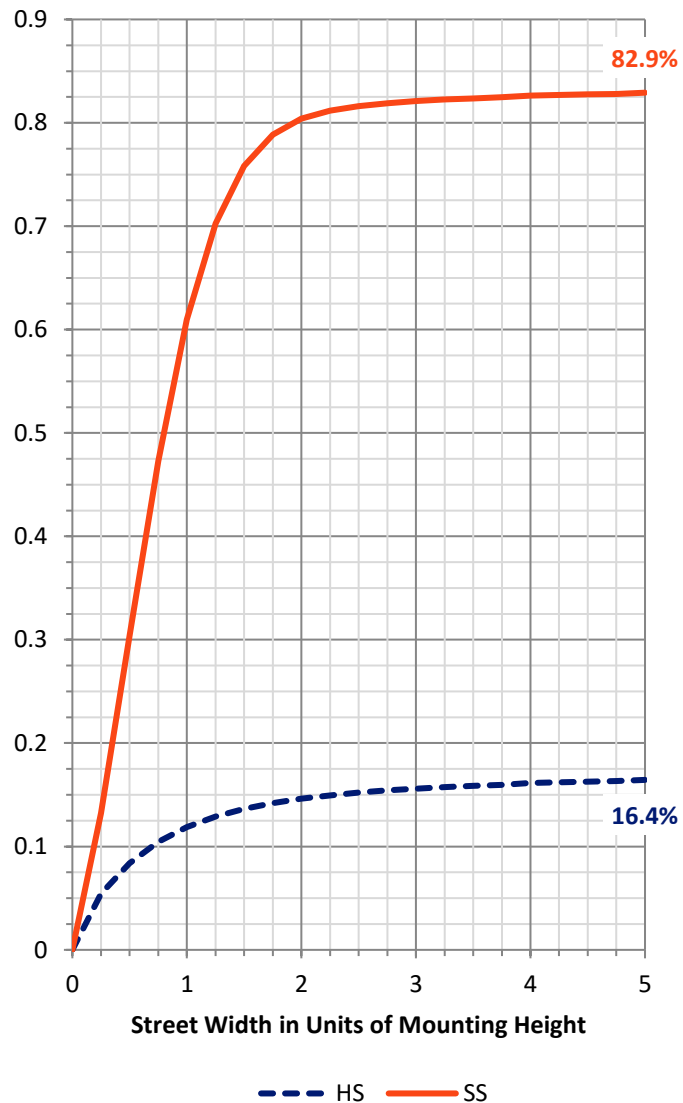
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4247.9	0.0	4247.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	20997.1	0.0	20997.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	25245.0	0.0	25245.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.8	1.1
10°-20°	1100.9	4.4
20°-30°	2139.4	8.5
30°-40°	3491.9	13.8
40°-50°	4770.8	18.9
50°-60°	5557.0	22.0
60°-70°	4982.0	19.7
70°-80°	2517.7	10.0
80°-90°	406.6	1.6
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°	25245.0	100.0
0°-180°	25245.0	100.0

**Coefficient of Utilization**



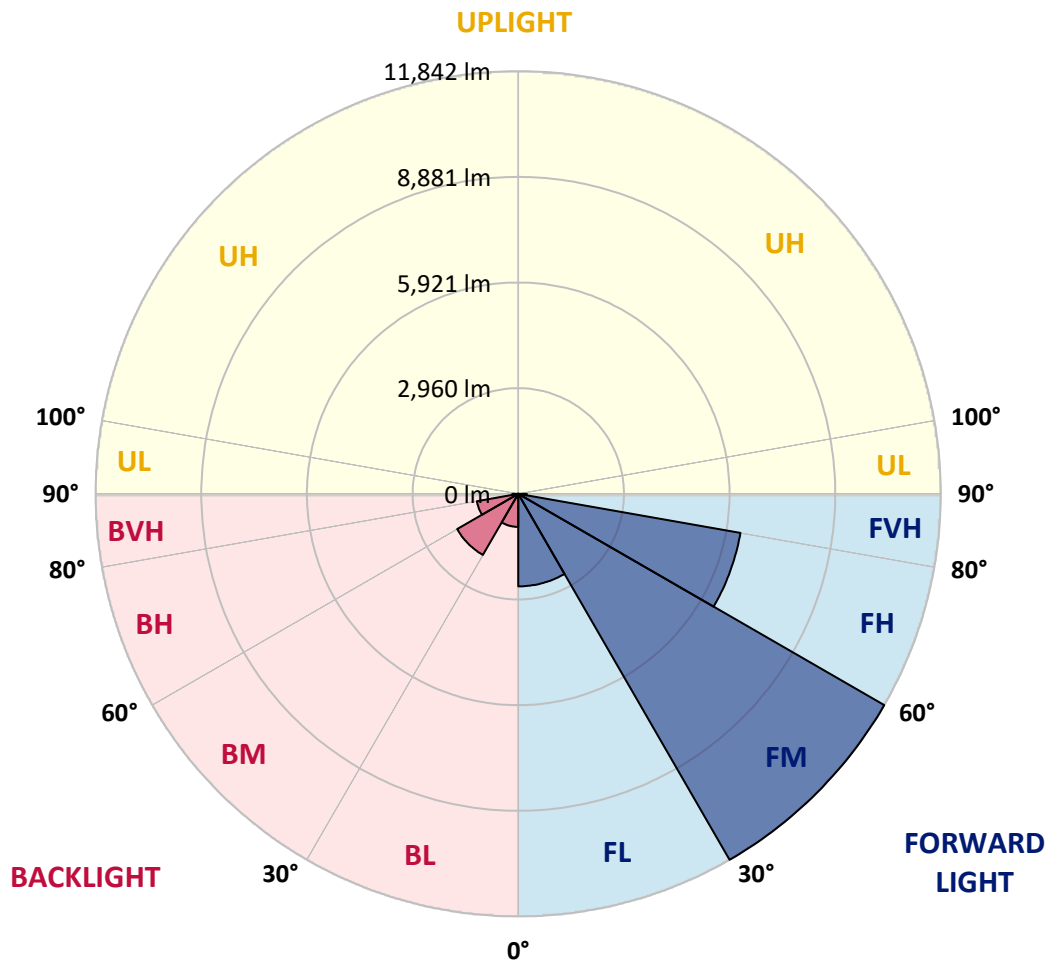
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2592.6	10.3			
FM (30°-60°)	11841.7	46.9			
FH (60°-80°)	6322.8	25.0			G3/7500
FVH (80°-90°)	240.1	1.0			G3/500
BL (0°-30°)	926.5	3.7	B2/1000		
BM (30°-60°)	1978.1	7.8	B2/2500		
BH (60°-80°)	1176.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	166.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4
2.5°	3060.5	3014.2	3009.9	2942.2	2926.8	2797.4	2702.2	2602.8	2489.7	2467.4	2378.3
5°	3931.2	3927.0	3867.8	3757.3	3670.7	3449.6	3231.0	2999.6	2746.0	2704.8	2504.3
7.5°	4714.6	4707.7	4662.3	4543.2	4418.0	4146.4	3834.4	3479.6	3068.2	3007.4	2674.8
10°	5309.4	5306.8	5291.4	5203.9	5097.7	4837.1	4492.6	4008.4	3442.7	3359.6	2888.2
12.5°	5768.7	5773.9	5784.2	5753.3	5702.7	5480.8	5127.7	4568.9	3842.1	3759.8	3125.6
15°	6079.8	6095.3	6148.4	6192.1	6218.7	6082.4	5740.5	5142.2	4289.5	4190.9	3388.7
17.5°	6236.7	6253.8	6345.5	6477.5	6599.2	6585.5	6313.8	5689.0	4718.9	4623.7	3671.6
20°	6372.1	6384.9	6487.8	6646.3	6861.5	6956.6	6804.0	6215.3	5189.4	5076.2	3971.5
22.5°	6764.6	6780.9	6811.8	6901.7	7092.0	7266.8	7193.1	6713.2	5620.5	5515.1	4256.1
25°	7522.2	7542.0	7475.1	7398.8	7434.8	7556.5	7570.2	7167.4	6057.6	5938.4	4562.0
27.5°	8435.0	8463.3	8349.3	8153.0	7981.6	7934.5	7918.2	7539.4	6474.9	6337.0	4864.6
30°	9328.9	9377.7	9229.5	8974.9	8660.4	8439.3	8275.6	7903.6	6886.3	6754.3	5150.0
32.5°	10202.2	10182.5	9967.4	9718.8	9350.3	9073.5	8677.5	8294.4	7349.1	7197.4	5433.6
35°	10800.4	10807.3	10607.6	10312.8	9961.4	9748.8	9215.8	8716.1	7821.3	7681.7	5755.9
37.5°	11309.5	11277.8	11051.5	10776.4	10473.9	10383.0	9845.7	9180.6	8333.0	8180.4	6098.7
40°	11479.2	11442.3	11294.1	11096.1	10853.6	10845.8	10540.7	9706.8	8911.5	8760.7	6485.2
42.5°	11376.4	11329.2	11268.4	11214.4	11139.8	11174.1	11193.8	10323.9	9547.4	9378.6	6932.6
45°	10996.7	10925.5	10968.4	11085.8	11247.8	11441.5	11783.4	11007.0	10259.6	10118.2	7458.0
47.5°	10413.0	10348.8	10482.5	10733.6	11174.1	11664.3	12341.4	11761.2	11109.8	10969.3	8206.2
50°	9592.0	9610.8	9802.0	10258.8	10924.7	11767.2	13028.7	12759.6	12345.7	12214.5	9226.9
52.5°	8244.7	8248.2	8786.4	9536.3	10482.5	11714.0	13410.1	14035.7	14033.2	13874.6	10198.8
55°	6993.4	7069.7	7495.7	8492.4	9766.0	11501.5	13676.6	14656.2	15141.3	14955.3	11104.7
57.5°	5771.3	5815.9	6219.5	7220.6	8743.5	10935.0	13950.0	15401.0	16418.3	16300.9	12230.8
60°	4381.2	4449.8	4867.1	5791.9	7435.7	9929.7	13975.8	16178.3	17944.7	17826.4	13488.1
62.5°	2843.7	2961.9	3352.7	4219.2	5853.6	8483.8	13379.3	16686.6	19391.4	19349.4	14604.0
65°	1634.4	1723.5	1995.2	2663.7	4038.4	6668.6	11960.9	16491.2	20281.9	20257.9	15021.3
66°	1335.3	1391.0	1599.2	2081.8	3332.2	5856.2	11136.4	16078.9	20370.1	20371.0	14973.3
67.5°	1067.9	1092.7	1186.1	1490.4	2458.8	4641.7	9663.1	15169.6	20260.4	20290.4	14664.0
70°	883.6	896.5	925.6	999.3	1342.1	2799.1	6858.9	12806.8	19159.1	19182.3	13456.4
72.5°	792.8	800.5	811.6	821.9	947.0	1564.1	4189.2	10245.1	16798.0	16828.0	11616.3
75°	718.2	722.5	720.8	721.6	794.5	996.7	2164.9	7649.1	13582.4	13522.4	8898.6
77.5°	630.8	635.1	626.5	628.2	702.8	766.2	1077.3	5354.8	9166.0	8742.7	5013.7
80°	533.1	536.5	533.1	539.1	611.9	578.5	626.5	3012.5	4052.9	3833.5	1782.6
82.5°	402.8	417.4	427.7	451.7	503.9	411.4	419.1	1173.3	1234.1	1175.0	546.8
85°	176.6	215.1	322.2	345.4	378.8	246.8	275.1	478.2	502.2	486.8	198.8
87.5°	46.3	50.6	159.4	200.5	210.0	111.4	143.1	217.7	229.7	217.7	66.0
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°	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4	2305.4
2.5°	2331.1	2289.2	2213.7	2146.9	2096.3	2062.0	2027.8	2010.6	2000.3	1990.0	1991.8
5°	2405.7	2320.9	2191.5	2099.7	2048.3	2015.8	1998.6	1991.8	1987.5	1977.2	1977.2
7.5°	2518.0	2398.0	2219.7	2125.5	2085.2	2060.3	2050.0	2046.6	2041.5	2029.5	2031.2
10°	2659.4	2491.4	2278.9	2187.2	2150.3	2122.9	2108.3	2103.2	2093.7	2080.0	2081.8
12.5°	2825.7	2607.1	2356.9	2260.9	2216.3	2179.5	2155.5	2140.9	2124.6	2106.6	2107.5
15°	3007.4	2733.1	2440.9	2326.9	2266.0	2214.6	2176.0	2151.2	2125.5	2103.2	2102.3
17.5°	3191.6	2854.8	2505.1	2362.9	2280.6	2212.9	2160.6	2122.0	2090.3	2062.9	2060.3
20°	3390.5	2964.5	2541.1	2359.4	2253.2	2172.6	2103.2	2055.2	2020.0	1992.6	1988.3
22.5°	3592.7	3067.3	2547.1	2324.3	2192.3	2093.7	2020.9	1967.8	1931.8	1903.5	1893.2
25°	3777.8	3147.1	2522.3	2256.6	2107.5	2001.2	1930.1	1876.1	1846.9	1813.5	1803.2
27.5°	3946.7	3202.8	2472.6	2170.0	2012.3	1907.8	1840.9	1794.6	1762.9	1737.2	1728.6
30°	4098.4	3232.8	2391.1	2067.2	1914.6	1819.5	1762.9	1731.2	1703.8	1671.2	1665.2
32.5°	4242.3	3232.8	2286.6	1954.9	1817.8	1741.5	1708.1	1688.4	1657.5	1625.8	1617.2
35°	4386.3	3213.0	2163.2	1837.5	1728.6	1685.8	1684.1	1660.9	1613.8	1571.0	1559.8
37.5°	4538.0	3172.8	2024.3	1727.8	1655.8	1660.9	1675.5	1624.1	1557.2	1496.4	1480.1
40°	4709.4	3117.1	1880.3	1632.7	1595.0	1649.8	1652.4	1571.0	1440.7	1385.0	1370.4
42.5°	4910.8	3061.3	1746.6	1548.7	1547.0	1616.4	1608.7	1456.1	1378.1	1349.8	1342.1
45°	5175.7	3029.6	1619.8	1469.0	1509.2	1562.4	1534.1	1392.7	1360.1	1343.8	1337.0
47.5°	5593.0	3045.9	1503.2	1405.5	1471.5	1508.4	1395.3	1367.0	1343.8	1324.1	1317.3
50°	6115.8	3036.5	1409.0	1361.8	1428.7	1451.8	1332.7	1333.6	1321.6	1299.3	1289.0
52.5°	6509.2	2962.8	1348.1	1337.0	1391.0	1351.6	1293.3	1301.0	1295.0	1262.4	1251.3
55°	6888.9	2899.4	1317.3	1327.6	1363.6	1226.4	1247.0	1265.8	1259.8	1228.1	1223.0
57.5°	7361.1	2887.4	1298.4	1330.1	1340.4	1163.9	1202.4	1227.3	1223.0	1209.3	1206.7
60°	7939.6	2890.8	1281.3	1334.4	1314.7	1117.6	1160.4	1192.1	1194.7	1192.1	1190.4
62.5°	8257.6	2797.4	1238.4	1322.4	1269.3	1077.3	1116.7	1163.0	1163.9	1169.0	1168.1
65°	7987.6	2518.0	1158.7	1280.4	1193.0	1043.9	1079.0	1129.6	1116.7	1139.9	1139.9
66°	7725.4	2356.9	1119.3	1253.0	1160.4	1031.0	1067.0	1112.4	1096.2	1127.9	1127.9
67.5°	7189.7	2085.2	1048.2	1194.7	1114.2	1013.0	1053.3	1084.2	1061.9	1109.0	1105.6
70°	6211.0	1612.9	905.0	1062.7	1037.9	986.5	1034.4	1027.6	995.0	1067.0	1053.3
72.5°	5236.5	1225.6	726.8	889.6	922.2	953.0	1007.9	955.6	914.5	965.0	935.0
75°	4063.2	921.3	574.2	691.6	779.0	900.7	976.2	872.5	813.3	808.2	791.9
77.5°	2196.6	632.5	455.1	527.9	618.8	835.6	954.7	783.3	694.2	673.6	660.8
80°	869.9	411.4	330.8	400.2	432.8	741.3	903.3	679.6	572.5	551.9	532.2
82.5°	359.1	243.4	213.4	268.3	282.0	634.2	810.8	557.1	442.2	611.9	649.6
85°	154.3	133.7	126.8	138.8	159.4	444.8	645.4	425.1	477.4	425.9	338.5
87.5°	46.3	56.6	54.0	53.1	58.3	106.3	343.7	236.5	350.5	132.8	99.4
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)