

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: P317569

Luminaire Tested: **GLEON-SA5C-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317569  
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-SA5C-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27074 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 279  
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

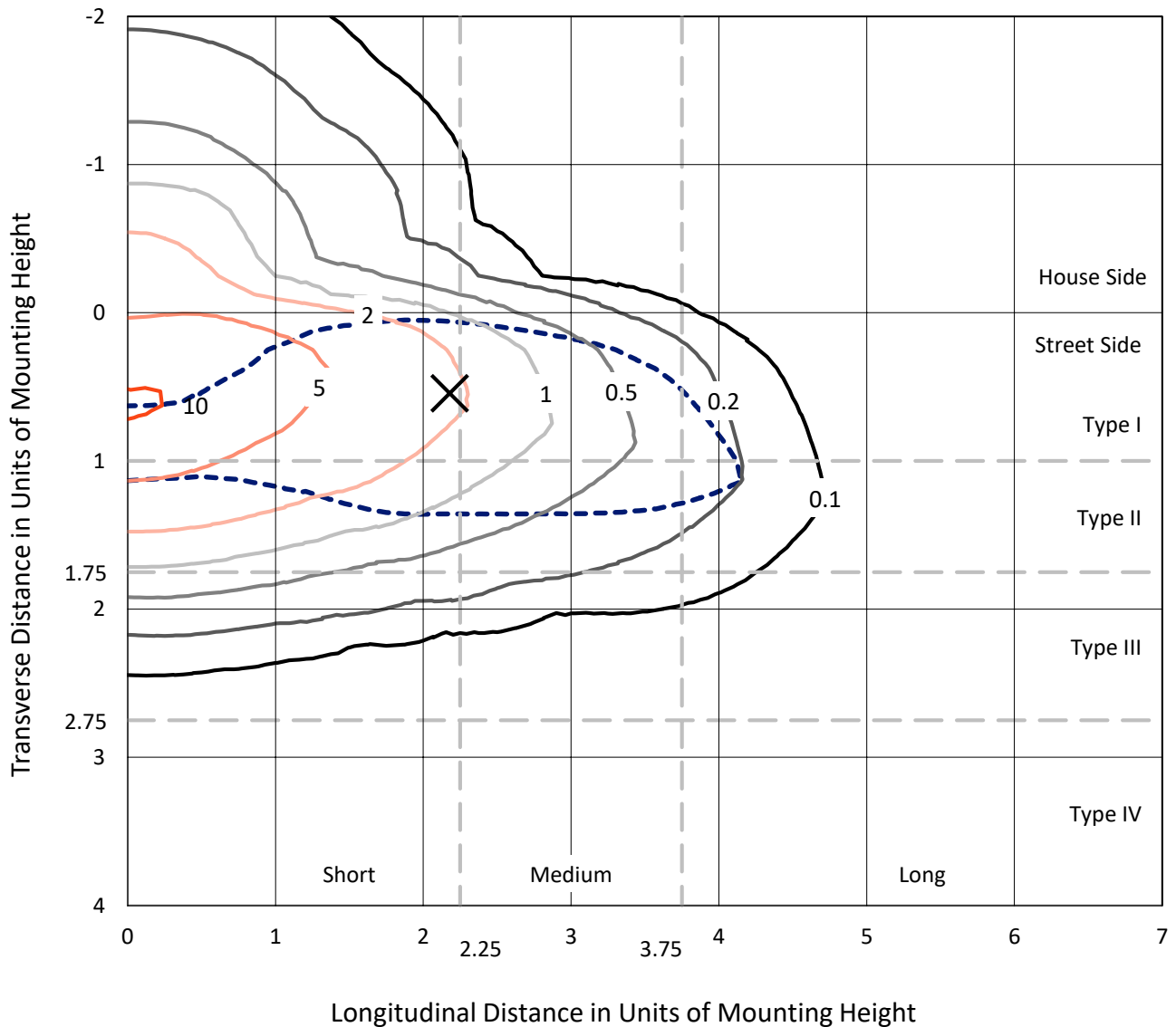




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### Iso-Footcandle Lines of Horizontal Illumination

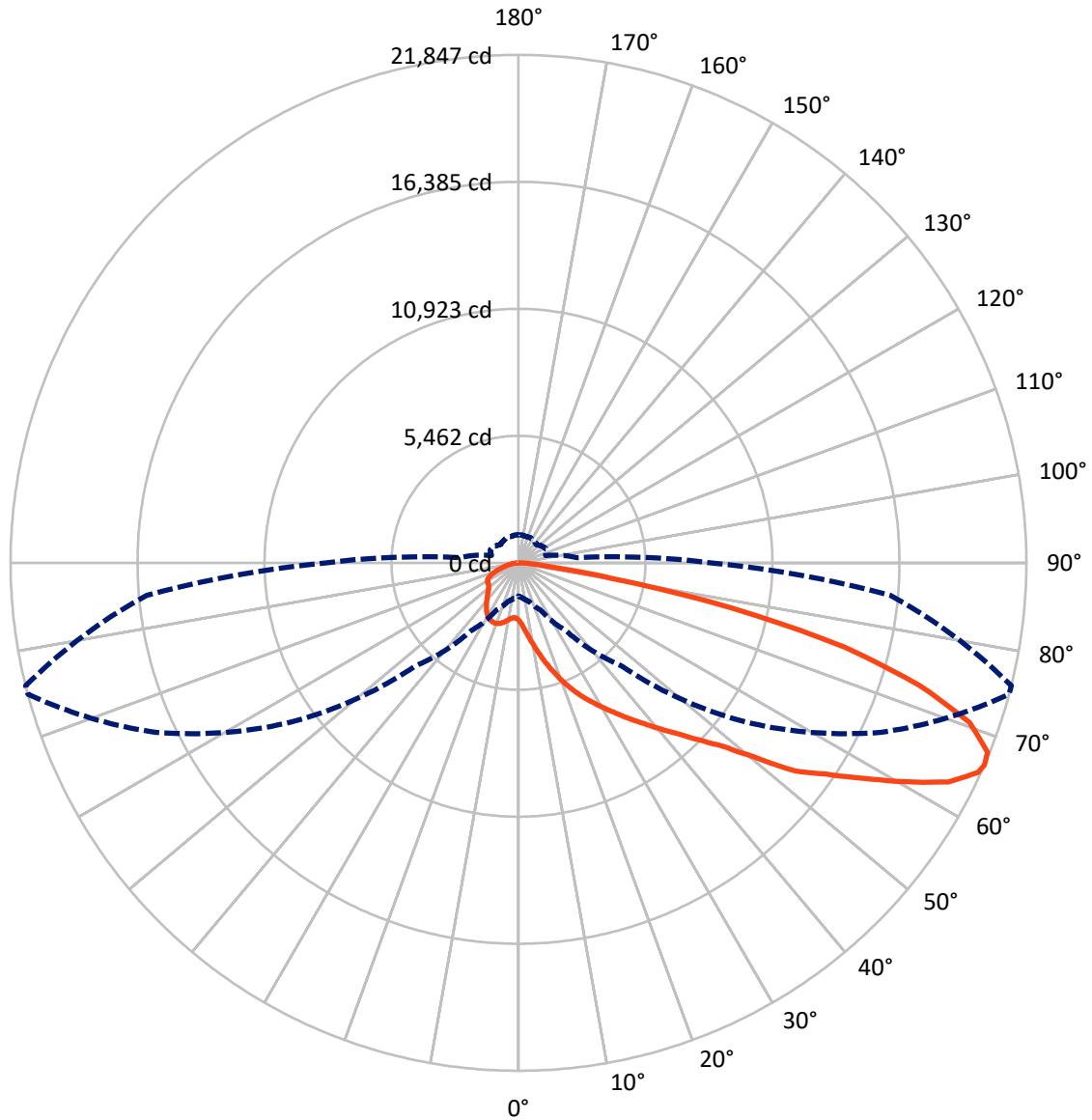
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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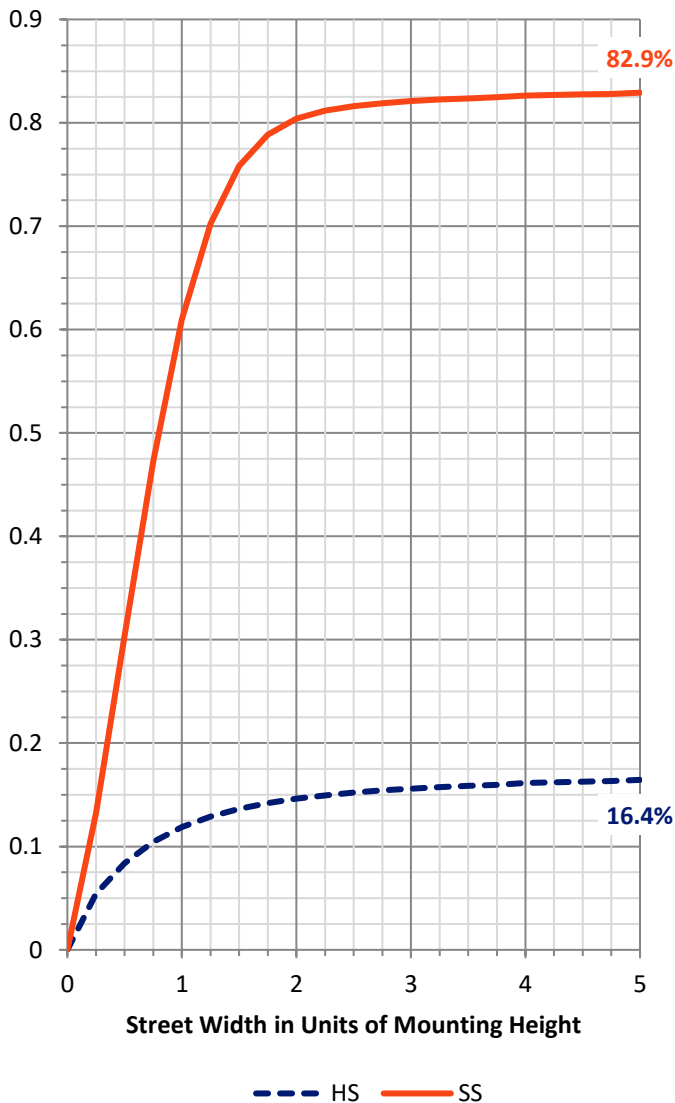
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4555.6	0.0	4555.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	22518.4	0.0	22518.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	27074.0	0.0	27074.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.0	1.1
10°-20°	1180.7	4.4
20°-30°	2294.4	8.5
30°-40°	3744.9	13.8
40°-50°	5116.4	18.9
50°-60°	5959.6	22.0
60°-70°	5342.9	19.7
70°-80°	2700.1	10.0
80°-90°	436.0	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°	27074.0	100.0
0°-180°	27074.0	100.0

**Coefficient of Utilization**

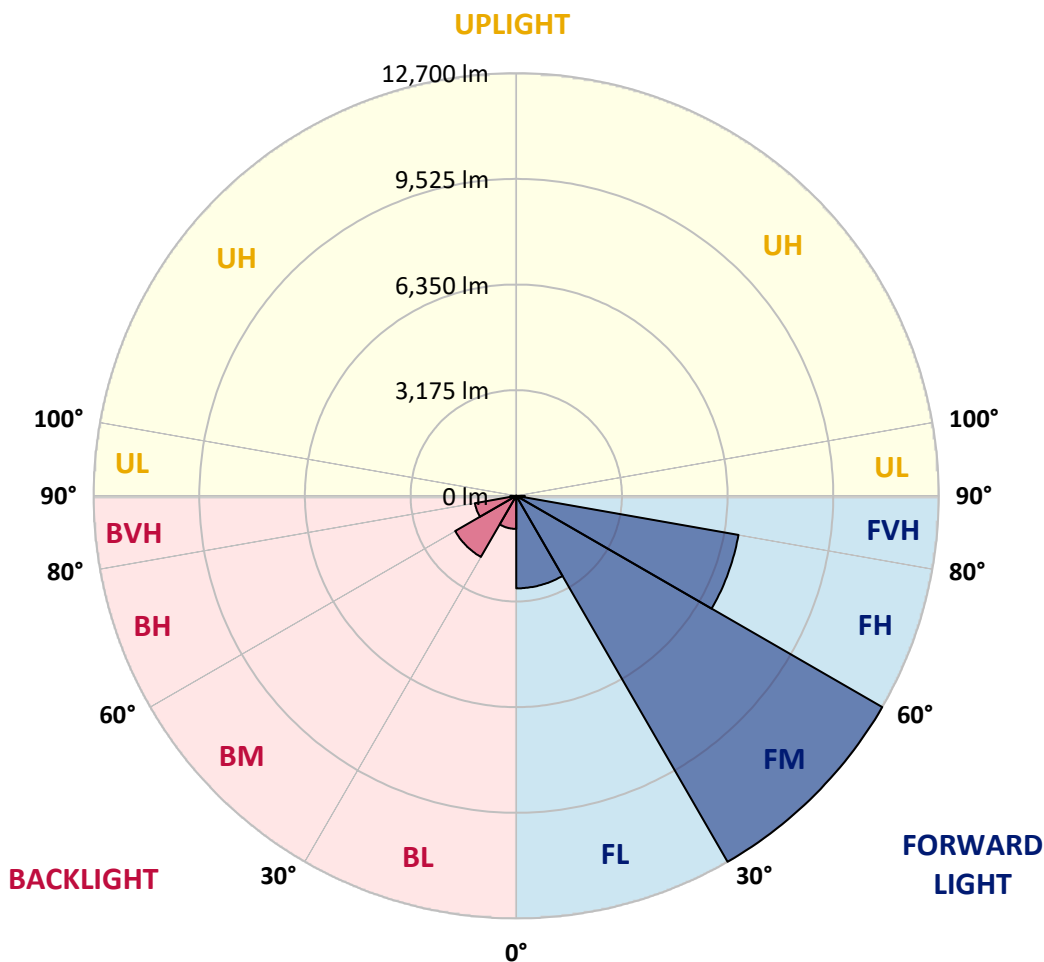


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2780.4	10.3			
FM (30°-60°)	12699.6	46.9			
FH (60°-80°)	6780.9	25.0			G3/7500
FVH (80°-90°)	257.5	1.0			G3/500
BL (0°-30°)	993.6	3.7	B2/1000		
BM (30°-60°)	2121.4	7.8	B2/2500		
BH (60°-80°)	1262.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	178.5	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°	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5
2.5°	3282.2	3232.6	3228.0	3155.4	3138.8	3000.0	2898.0	2791.4	2670.1	2646.2	2550.6
5°	4216.1	4211.5	4148.0	4029.5	3936.6	3699.5	3465.1	3217.0	2944.9	2900.8	2685.7
7.5°	5056.1	5048.8	5000.1	4872.3	4738.1	4446.8	4112.2	3731.7	3290.5	3225.2	2868.6
10°	5694.0	5691.3	5674.7	5581.0	5467.0	5187.6	4818.1	4298.8	3692.2	3603.0	3097.5
12.5°	6186.7	6192.2	6203.2	6170.1	6115.9	5877.9	5499.2	4899.9	4120.5	4032.2	3352.1
15°	6520.3	6536.9	6593.9	6640.7	6669.2	6523.1	6156.4	5514.8	4600.3	4494.6	3634.3
17.5°	6688.5	6706.9	6805.3	6946.8	7077.3	7062.6	6771.3	6101.2	5060.7	4958.7	3937.6
20°	6833.8	6847.5	6957.8	7127.9	7358.6	7460.6	7297.0	6665.5	5565.3	5444.0	4259.3
22.5°	7254.7	7272.2	7305.3	7401.8	7605.8	7793.3	7714.3	7199.6	6027.7	5914.6	4564.4
25°	8067.2	8088.4	8016.7	7934.9	7973.5	8104.0	8118.7	7686.7	6496.4	6368.7	4892.5
27.5°	9046.1	9076.4	8954.2	8743.7	8559.9	8509.3	8491.9	8085.6	6944.0	6796.1	5217.0
30°	10004.8	10057.1	9898.1	9625.2	9287.8	9050.7	8875.1	8476.2	7385.2	7243.7	5523.1
32.5°	10941.4	10920.2	10689.5	10423.0	10027.7	9730.9	9306.2	8895.4	7881.6	7718.9	5827.3
35°	11582.9	11590.3	11376.1	11059.9	10683.1	10455.1	9883.4	9347.6	8388.0	8238.2	6172.9
37.5°	12128.9	12094.9	11852.2	11557.2	11232.7	11135.3	10559.0	9845.7	8936.7	8773.1	6540.5
40°	12310.9	12271.3	12112.3	11900.0	11639.9	11631.6	11304.4	10410.1	9557.1	9395.4	6955.1
42.5°	12200.6	12150.0	12084.8	12026.9	11946.9	11983.7	12004.8	11071.9	10239.1	10058.1	7434.9
45°	11793.4	11717.1	11763.1	11889.0	12062.7	12270.4	12637.2	11804.4	11002.9	10851.3	7998.3
47.5°	11167.5	11098.5	11241.9	11511.2	11983.7	12509.4	13235.5	12613.3	11914.7	11764.0	8800.7
50°	10286.9	10307.2	10512.1	11002.0	11716.2	12619.7	13972.7	13684.0	13240.1	13099.5	9895.4
52.5°	8842.1	8845.7	9422.9	10227.2	11241.9	12562.7	14381.7	15052.6	15049.9	14879.8	10937.7
55°	7500.1	7581.9	8038.7	9107.7	10473.5	12334.8	14667.5	15718.1	16238.3	16038.9	11909.2
57.5°	6189.4	6237.2	6670.1	7743.7	9377.0	11727.2	14960.7	16516.8	17607.8	17481.9	13116.9
60°	4698.6	4772.1	5219.8	6211.5	7974.4	10649.1	14988.3	17350.5	19244.8	19118.0	14465.3
62.5°	3049.7	3176.5	3595.6	4524.9	6277.7	9098.5	14348.6	17895.5	20796.3	20751.3	15662.0
65°	1752.8	1848.4	2139.7	2856.7	4331.0	7151.8	12827.4	17686.0	21751.3	21725.5	16109.6
66°	1432.0	1491.8	1715.1	2232.6	3573.6	6280.4	11943.2	17243.8	21845.9	21846.9	16058.2
67.5°	1145.2	1171.9	1272.1	1598.4	2637.0	4978.0	10363.2	16268.6	21728.3	21760.5	15726.4
70°	947.6	961.4	992.7	1071.7	1439.4	3001.9	7355.8	13734.6	20547.2	20572.0	14431.3
72.5°	850.2	858.5	870.4	881.4	1015.6	1677.4	4492.7	10987.3	18015.0	18047.2	12457.9
75°	770.2	774.8	773.0	773.9	852.0	1069.0	2321.7	8203.3	14566.4	14502.1	9543.4
77.5°	676.5	681.1	671.9	673.7	753.7	821.7	1155.3	5742.7	9830.1	9376.1	5376.9
80°	571.7	575.4	571.7	578.1	656.3	620.4	671.9	3230.8	4346.6	4111.3	1911.8
82.5°	432.0	447.6	458.6	484.4	540.4	441.2	449.5	1258.3	1323.6	1260.1	586.4
85°	189.3	230.7	345.6	370.4	406.3	264.7	295.0	512.9	538.6	522.1	213.2
87.5°	49.6	54.2	171.0	215.1	225.2	119.5	153.5	233.5	246.3	233.5	70.8
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°	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5	2472.5
2.5°	2500.0	2455.0	2374.1	2302.4	2248.2	2211.4	2174.7	2156.3	2145.3	2134.2	2136.1
5°	2580.0	2489.0	2350.2	2251.9	2196.7	2161.8	2143.4	2136.1	2131.5	2120.4	2120.4
7.5°	2700.4	2571.7	2380.6	2279.4	2236.2	2209.6	2198.6	2194.9	2189.4	2176.5	2178.3
10°	2852.1	2671.9	2444.0	2345.6	2306.1	2276.7	2261.1	2255.6	2245.4	2230.7	2232.6
12.5°	3030.4	2796.0	2527.6	2424.7	2376.9	2337.4	2311.6	2296.0	2278.5	2259.2	2260.1
15°	3225.2	2931.1	2617.7	2495.4	2430.2	2375.0	2333.7	2307.0	2279.4	2255.6	2254.6
17.5°	3422.8	3061.6	2686.6	2534.0	2445.8	2373.2	2317.1	2275.8	2241.8	2212.4	2209.6
20°	3636.1	3179.3	2725.2	2530.4	2416.4	2330.0	2255.6	2204.1	2166.4	2137.0	2132.4
22.5°	3853.0	3289.6	2731.7	2492.7	2351.1	2245.4	2167.3	2110.3	2071.7	2041.4	2030.4
25°	4051.5	3375.1	2705.0	2420.1	2260.1	2146.2	2069.9	2012.0	1980.7	1944.9	1933.9
27.5°	4232.6	3434.8	2651.7	2327.2	2158.1	2046.0	1974.3	1924.7	1890.7	1863.1	1853.9
30°	4395.3	3467.0	2564.4	2216.9	2053.3	1951.3	1890.7	1856.6	1827.2	1792.3	1785.9
32.5°	4549.7	3467.0	2452.2	2096.5	1949.5	1867.7	1831.8	1810.7	1777.6	1743.6	1734.4
35°	4704.1	3445.8	2319.9	1970.6	1853.9	1807.9	1806.1	1781.3	1730.7	1684.8	1672.8
37.5°	4866.8	3402.6	2171.0	1853.0	1775.8	1781.3	1796.9	1741.8	1670.1	1604.8	1587.3
40°	5050.6	3342.9	2016.6	1750.9	1710.5	1769.3	1772.1	1684.8	1545.1	1485.3	1469.7
42.5°	5266.6	3283.1	1873.2	1660.9	1659.0	1733.5	1725.2	1561.6	1478.0	1447.6	1439.4
45°	5550.6	3249.1	1737.2	1575.4	1618.6	1675.6	1645.2	1493.6	1458.7	1441.2	1433.8
47.5°	5998.3	3266.6	1612.2	1507.4	1578.2	1617.7	1496.3	1466.0	1441.2	1420.1	1412.7
50°	6558.9	3256.5	1511.1	1460.5	1532.2	1557.0	1429.3	1430.2	1417.3	1393.4	1382.4
52.5°	6980.8	3177.4	1445.8	1433.8	1491.8	1449.5	1387.0	1395.2	1388.8	1353.9	1341.9
55°	7388.0	3109.4	1412.7	1423.7	1462.3	1315.3	1337.3	1357.6	1351.1	1317.1	1311.6
57.5°	7894.4	3096.6	1392.5	1426.5	1437.5	1248.2	1289.5	1316.2	1311.6	1296.9	1294.1
60°	8514.8	3100.2	1374.1	1431.1	1409.9	1198.5	1244.5	1278.5	1281.3	1278.5	1276.7
62.5°	8855.8	3000.0	1328.1	1418.2	1361.2	1155.3	1197.6	1247.3	1248.2	1253.7	1252.8
65°	8566.3	2700.4	1242.7	1373.2	1279.4	1119.5	1157.2	1211.4	1197.6	1222.4	1222.4
66°	8285.1	2527.6	1200.4	1343.8	1244.5	1105.7	1144.3	1193.0	1175.6	1209.6	1209.6
67.5°	7710.6	2236.2	1124.1	1281.3	1194.9	1086.4	1129.6	1162.7	1138.8	1189.4	1185.7
70°	6661.0	1729.8	970.6	1139.7	1113.1	1057.9	1109.4	1102.0	1067.1	1144.3	1129.6
72.5°	5615.9	1314.4	779.4	954.1	989.0	1022.1	1080.9	1024.8	980.7	1034.9	1002.8
75°	4357.6	988.1	615.8	741.7	835.5	966.0	1046.9	935.7	872.3	866.7	849.3
77.5°	2355.7	678.3	488.1	566.2	663.6	896.2	1023.9	840.1	744.5	722.4	708.7
80°	932.9	441.2	354.8	429.2	464.2	795.0	968.8	728.9	614.0	591.9	570.8
82.5°	385.1	261.0	228.9	287.7	302.4	680.2	869.5	597.4	474.3	656.3	696.7
85°	165.4	143.4	136.0	148.9	171.0	477.0	692.1	455.9	512.0	456.8	363.1
87.5°	49.6	60.7	57.9	57.0	62.5	114.0	368.6	253.7	375.9	142.5	106.6
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)