

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: P318208

Luminaire Tested: **GLEON-SA4C-827-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20583 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

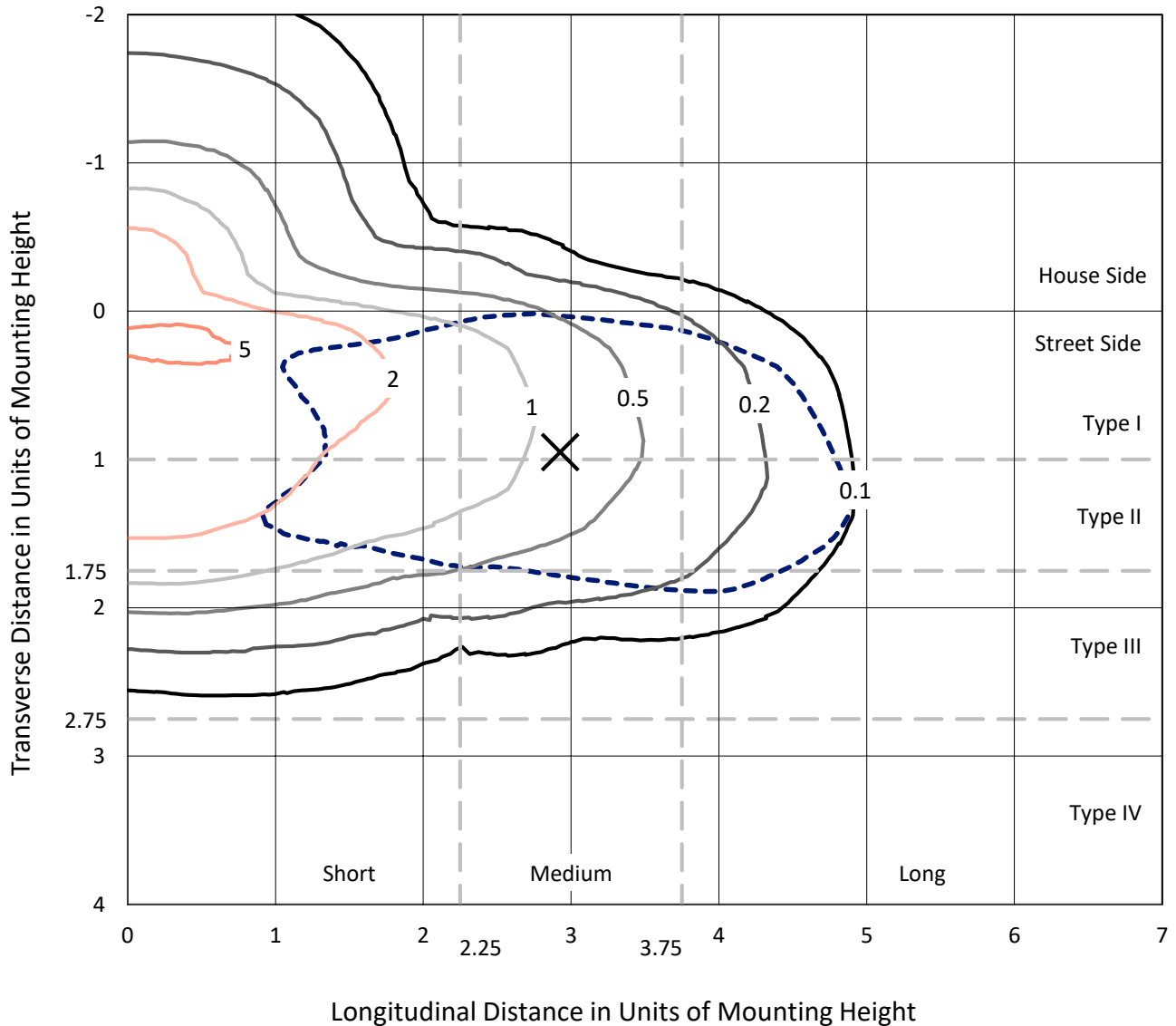
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

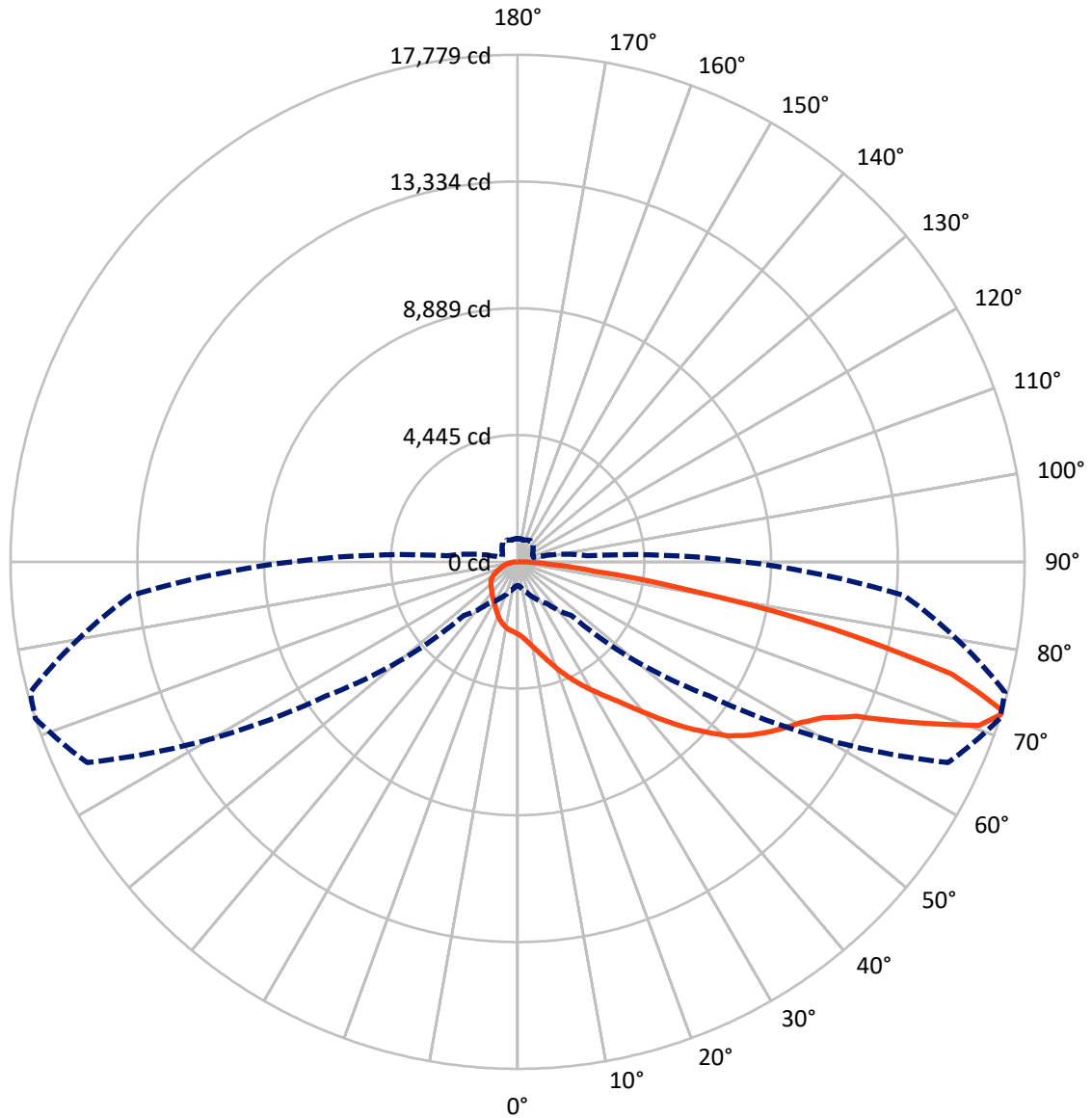
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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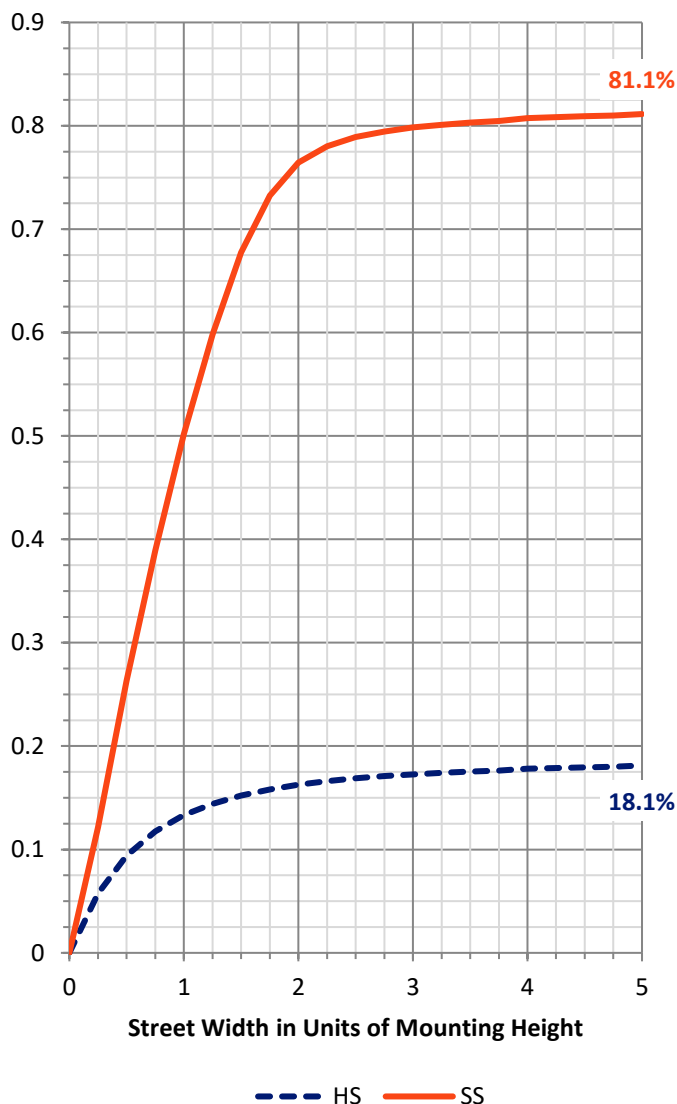
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3818.3	0.0	3818.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	16764.7	0.0	16764.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	20583.0	0.0	20583.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.7	1.2
10°-20°	820.0	4.0
20°-30°	1436.8	7.0
30°-40°	2130.4	10.4
40°-50°	3115.8	15.1
50°-60°	4287.4	20.8
60°-70°	4773.1	23.2
70°-80°	3234.3	15.7
80°-90°	531.6	2.6
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°	20583.0	100.0
0°-180°	20583.0	100.0

**Coefficient of Utilization**

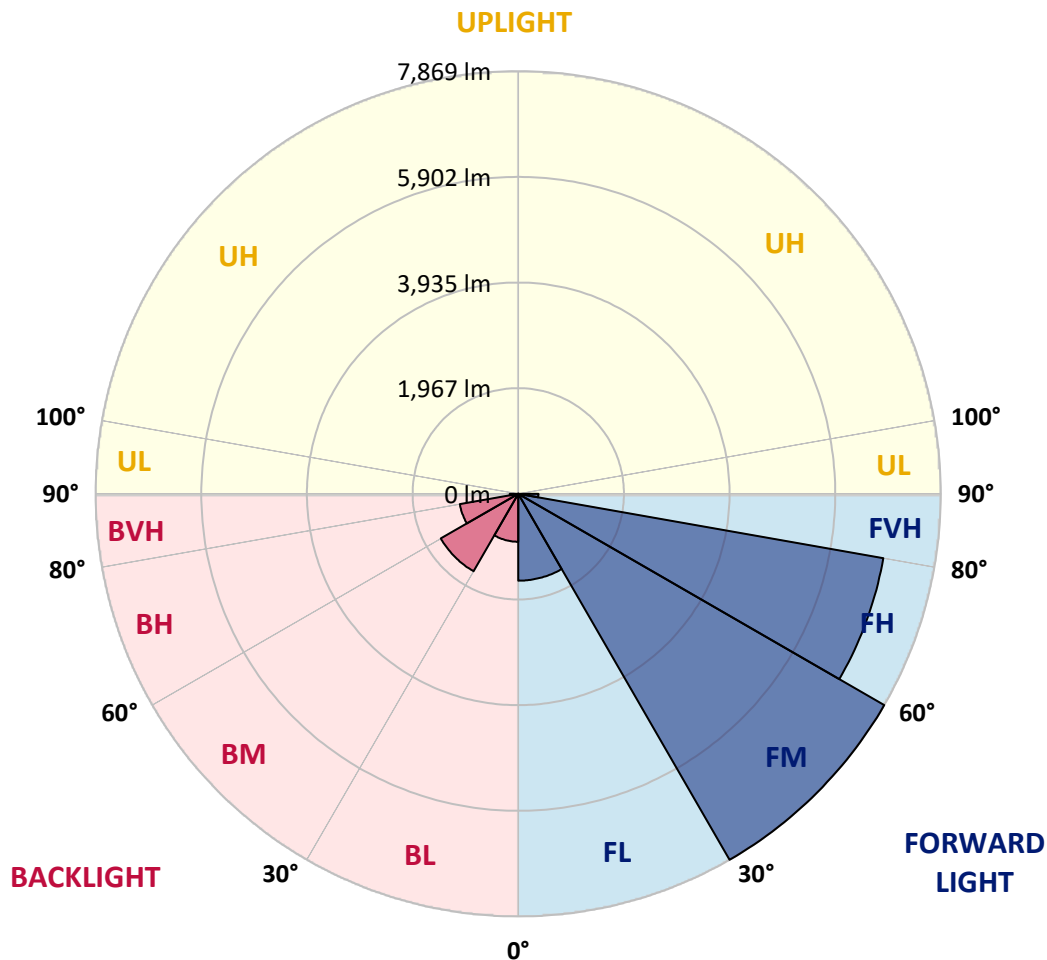


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1617.9	7.9			
FM (30°-60°)	7869.1	38.2			
FH (60°-80°)	6902.7	33.5			G3/7500
FVH (80°-90°)	375.0	1.8			G3/500
BL (0°-30°)	892.6	4.3	B2/1000		
BM (30°-60°)	1664.4	8.1	B2/2500		
BH (60°-80°)	1104.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	156.6	0.8			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2
2.5°	2797.3	2793.1	2778.2	2778.2	2749.8	2725.7	2680.4	2649.9	2613.7	2601.0	2558.5
5°	3068.0	3069.5	3051.0	3038.3	2996.5	2945.4	2868.2	2798.0	2727.9	2699.5	2612.3
7.5°	3295.5	3292.7	3287.7	3277.1	3238.1	3185.7	3081.5	2977.3	2873.8	2831.3	2681.1
10°	3441.5	3447.9	3452.2	3457.1	3440.8	3403.3	3304.7	3177.9	3042.5	2984.4	2763.3
12.5°	3515.2	3526.6	3546.4	3580.4	3607.4	3603.1	3531.5	3396.9	3236.0	3163.0	2866.1
15°	3558.5	3573.4	3604.5	3665.5	3741.3	3784.5	3765.4	3643.5	3464.2	3374.2	2991.5
17.5°	3585.4	3597.4	3645.6	3727.1	3839.8	3954.6	4005.0	3902.9	3722.2	3619.4	3135.4
20°	3603.8	3613.0	3673.3	3769.0	3915.0	4097.8	4238.1	4212.6	4006.4	3873.1	3285.6
22.5°	3644.9	3652.7	3710.1	3806.5	3968.1	4204.1	4462.8	4501.1	4306.2	4155.2	3446.5
25°	3759.7	3759.7	3807.9	3875.3	4026.9	4296.2	4652.7	4822.1	4612.3	4436.6	3595.3
27.5°	3978.7	3976.6	3994.3	4017.7	4132.5	4389.8	4822.1	5105.6	4929.8	4737.8	3739.9
30°	4238.1	4252.3	4254.4	4243.1	4297.0	4506.7	4978.7	5404.7	5249.5	5042.5	3888.0
32.5°	4571.9	4581.1	4570.5	4533.0	4525.2	4672.6	5132.5	5717.9	5595.3	5360.7	4023.4
35°	4995.7	4978.0	4944.7	4868.2	4795.2	4894.4	5308.3	6031.2	5983.7	5745.6	4209.8
37.5°	5450.0	5450.7	5409.6	5236.0	5135.4	5177.9	5550.7	6386.2	6453.6	6203.4	4448.6
40°	5814.3	5833.4	5859.0	5630.8	5500.4	5559.2	5859.0	6798.0	7009.2	6746.3	4759.7
42.5°	6068.7	6090.7	6163.0	6019.8	5884.5	5993.6	6221.8	7237.4	7632.9	7372.8	5124.0
45°	6338.1	6350.1	6401.1	6339.5	6253.0	6498.9	6630.8	7692.4	8292.7	8040.4	5531.5
47.5°	6621.5	6634.3	6686.7	6645.6	6600.3	6970.9	7057.4	8121.2	8924.9	8773.9	5966.7
50°	6971.6	6980.2	7029.8	6955.3	6969.5	7326.7	7438.7	8514.5	9587.5	9433.0	6403.3
52.5°	7449.3	7451.5	7520.2	7452.9	7386.2	7587.5	7766.8	8885.2	10107.0	10034.0	6839.8
55°	7823.5	7846.2	8071.6	8057.4	8019.1	7824.2	8041.1	9238.1	10570.5	10605.2	7303.3
57.5°	7584.7	7673.3	8129.7	8451.5	8764.7	8413.2	8411.8	9635.7	11001.4	11165.8	7812.9
60°	6642.8	6763.3	7435.9	8149.5	9129.7	9438.0	9181.4	10121.2	11436.6	11721.5	8451.5
62.5°	4744.2	4942.6	5854.0	6993.6	8629.3	10116.9	10747.7	10891.6	12028.3	12365.0	9281.4
65°	2398.3	2548.5	3312.5	4685.3	6894.4	9673.3	12450.0	12578.3	13056.7	13355.8	10559.2
67.5°	1457.1	1513.8	1886.6	2606.0	4226.8	7535.1	13005.7	15389.8	15046.8	15205.5	12381.3
70°	1073.7	1115.5	1348.0	1730.7	2430.9	4421.7	11300.5	17396.2	17170.8	17153.1	13727.8
72°	836.3	866.8	1072.3	1398.3	1777.5	2652.7	8190.6	16655.6	17778.9	17689.6	13604.5
72.5°	793.1	820.0	1007.1	1316.1	1679.7	2404.7	7364.3	16155.9	17734.9	17694.5	13445.1
75°	624.4	643.5	745.6	1017.7	1314.7	1364.3	4035.4	12520.2	15732.8	16387.0	12092.8
77.5°	516.7	519.5	573.4	740.6	1024.8	964.6	1982.3	8686.7	11265.8	11985.1	8566.3
80°	421.0	424.5	450.0	519.5	775.3	713.7	941.2	4995.0	6307.6	6315.4	4073.7
82.5°	335.2	335.9	364.3	379.9	557.1	510.3	539.3	2345.1	2756.2	2651.3	1464.2
85°	236.0	231.0	355.8	311.8	364.3	327.4	297.7	928.4	1139.6	1090.0	458.5
87.5°	78.7	81.5	158.0	202.0	212.6	185.7	132.5	355.8	430.2	426.6	145.3
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°	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2	2532.2
2.5°	2545.0	2522.3	2489.0	2452.2	2423.1	2393.3	2371.4	2360.0	2347.3	2336.6	2349.4
5°	2571.9	2529.4	2458.5	2389.1	2338.1	2292.7	2260.1	2243.1	2227.5	2216.9	2218.3
7.5°	2615.9	2547.1	2428.1	2326.7	2255.8	2206.9	2173.6	2162.3	2152.4	2149.5	2153.1
10°	2662.6	2561.3	2387.7	2253.0	2172.2	2131.8	2116.9	2124.7	2131.8	2138.2	2145.3
12.5°	2715.8	2574.1	2328.8	2166.5	2097.8	2082.2	2097.1	2131.1	2155.9	2170.8	2180.0
15°	2785.3	2585.4	2260.8	2080.1	2034.0	2051.7	2102.1	2160.9	2204.1	2231.7	2236.0
17.5°	2849.0	2584.7	2173.6	1992.9	1982.3	2034.0	2109.9	2192.8	2250.9	2289.9	2297.7
20°	2915.0	2565.6	2072.3	1907.9	1929.8	2014.9	2113.4	2213.3	2283.5	2328.8	2339.5
22.5°	2976.6	2532.2	1961.0	1830.6	1885.9	1989.4	2099.9	2201.3	2271.4	2308.3	2319.6
25°	3018.4	2474.1	1848.3	1765.4	1846.9	1958.2	2056.0	2137.5	2189.9	2208.4	2211.2
27.5°	3039.7	2398.3	1742.0	1708.7	1806.5	1907.2	1974.5	2014.9	2029.8	2028.3	2025.5
30°	3042.5	2298.4	1650.6	1662.7	1759.7	1832.0	1863.9	1856.1	1837.0	1804.4	1807.2
32.5°	3033.3	2185.7	1574.1	1618.7	1700.2	1740.6	1742.0	1704.5	1653.4	1601.7	1587.5
35°	3036.1	2075.1	1506.7	1569.1	1627.9	1645.6	1629.3	1574.1	1504.6	1438.0	1423.8
37.5°	3067.3	1978.7	1448.6	1511.7	1547.8	1552.1	1528.7	1470.6	1419.6	1354.4	1348.7
40°	3141.7	1910.0	1393.3	1447.2	1467.8	1469.9	1436.6	1395.5	1399.7	1365.0	1364.3
42.5°	3275.7	1880.2	1344.4	1379.9	1392.6	1396.9	1371.4	1345.1	1382.0	1359.3	1351.5
45°	3448.6	1887.3	1303.3	1314.0	1337.3	1357.2	1341.6	1309.7	1323.9	1225.4	1192.8
47.5°	3648.5	1932.7	1270.7	1257.3	1297.7	1335.2	1311.1	1262.9	1212.6	1114.8	1096.4
50°	3882.4	2002.8	1241.0	1201.3	1254.4	1305.5	1281.4	1212.6	1136.8	1089.3	1082.9
52.5°	4126.2	2088.6	1211.2	1139.6	1199.9	1282.8	1270.7	1201.3	1107.7	1060.9	1052.4
55°	4402.6	2175.1	1173.6	1068.0	1141.0	1272.1	1265.8	1160.2	1085.8	1059.5	1053.2
57.5°	4746.3	2273.6	1124.0	993.6	1085.8	1233.9	1214.0	1135.4	1063.1	1043.2	1041.1
60°	5194.2	2418.9	1052.4	914.2	1018.4	1175.1	1170.8	1099.2	1026.9	1012.8	1009.9
62.5°	5866.1	2659.1	953.9	834.9	943.3	1075.1	1114.1	1050.3	988.7	988.0	989.4
65°	6907.9	3020.6	846.9	765.4	867.5	990.8	1048.2	1000.0	949.7	963.9	966.0
67.5°	8115.5	3320.3	742.0	697.4	790.2	910.7	988.7	949.7	897.9	934.8	935.5
70°	8517.4	3052.4	649.9	630.0	710.1	833.5	924.2	894.4	842.0	878.8	875.3
72°	7926.3	2464.2	590.4	579.0	649.9	769.7	866.8	842.7	790.9	815.7	806.5
72.5°	7739.9	2349.4	575.5	566.3	633.6	753.4	851.9	829.9	778.2	799.4	790.9
75°	6904.3	2040.4	494.7	496.8	552.8	674.0	768.2	761.2	708.0	710.1	707.3
77.5°	5007.8	1496.1	416.7	430.9	470.6	592.5	683.9	679.7	621.5	610.9	608.8
80°	2323.9	763.3	339.5	345.9	387.0	495.4	583.3	577.6	530.8	517.4	509.6
82.5°	795.9	362.9	255.1	259.4	299.8	399.0	506.0	502.5	463.5	437.3	421.0
85°	284.2	180.7	178.6	174.3	214.0	314.0	440.8	421.7	364.3	310.4	309.0
87.5°	92.1	77.3	92.1	91.4	124.7	212.6	320.3	272.9	264.4	219.7	215.4
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)