

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: P318203

Luminaire Tested: **GLEON-SA9B-827-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318203  
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-SA9B-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36854 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

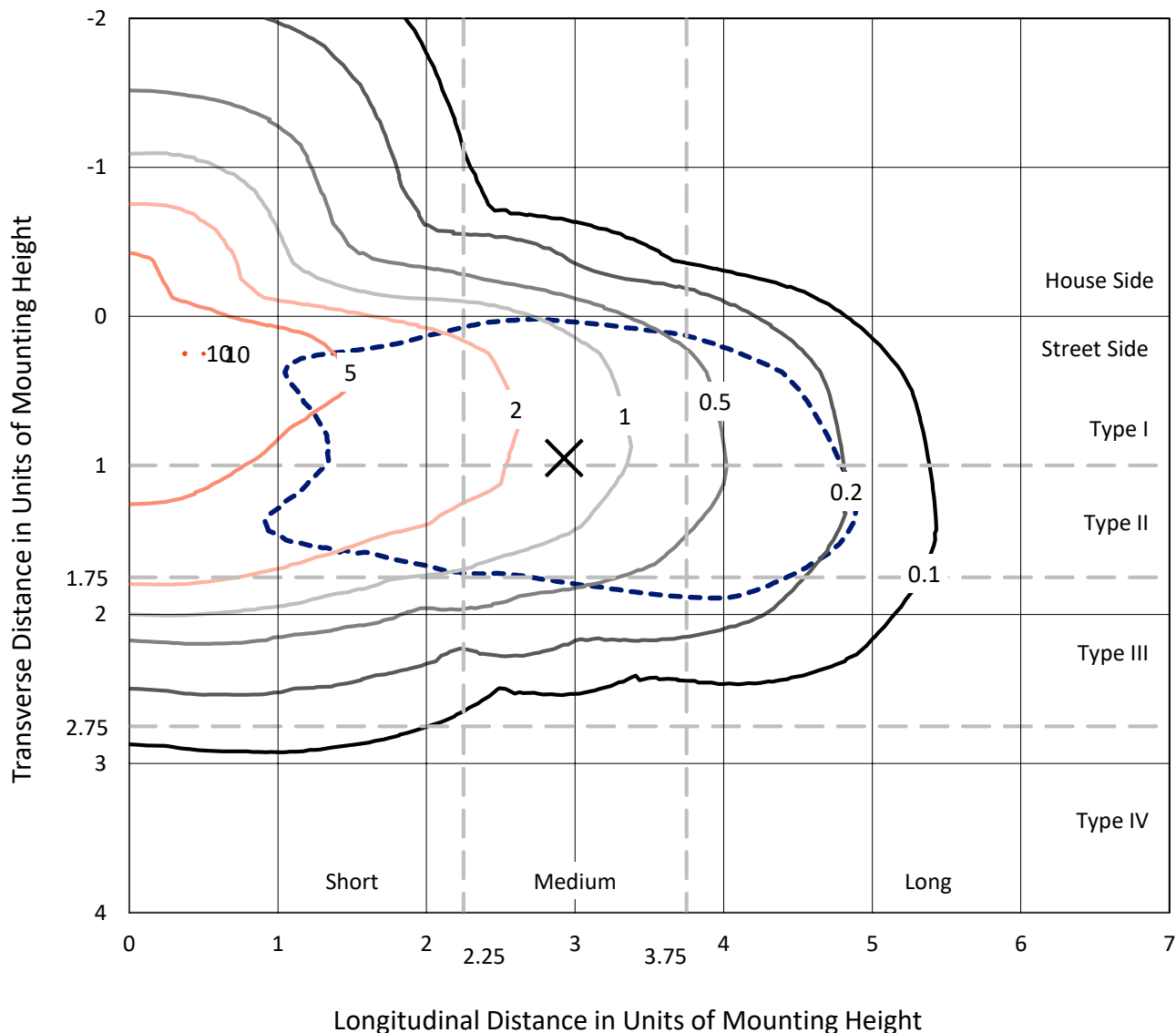
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

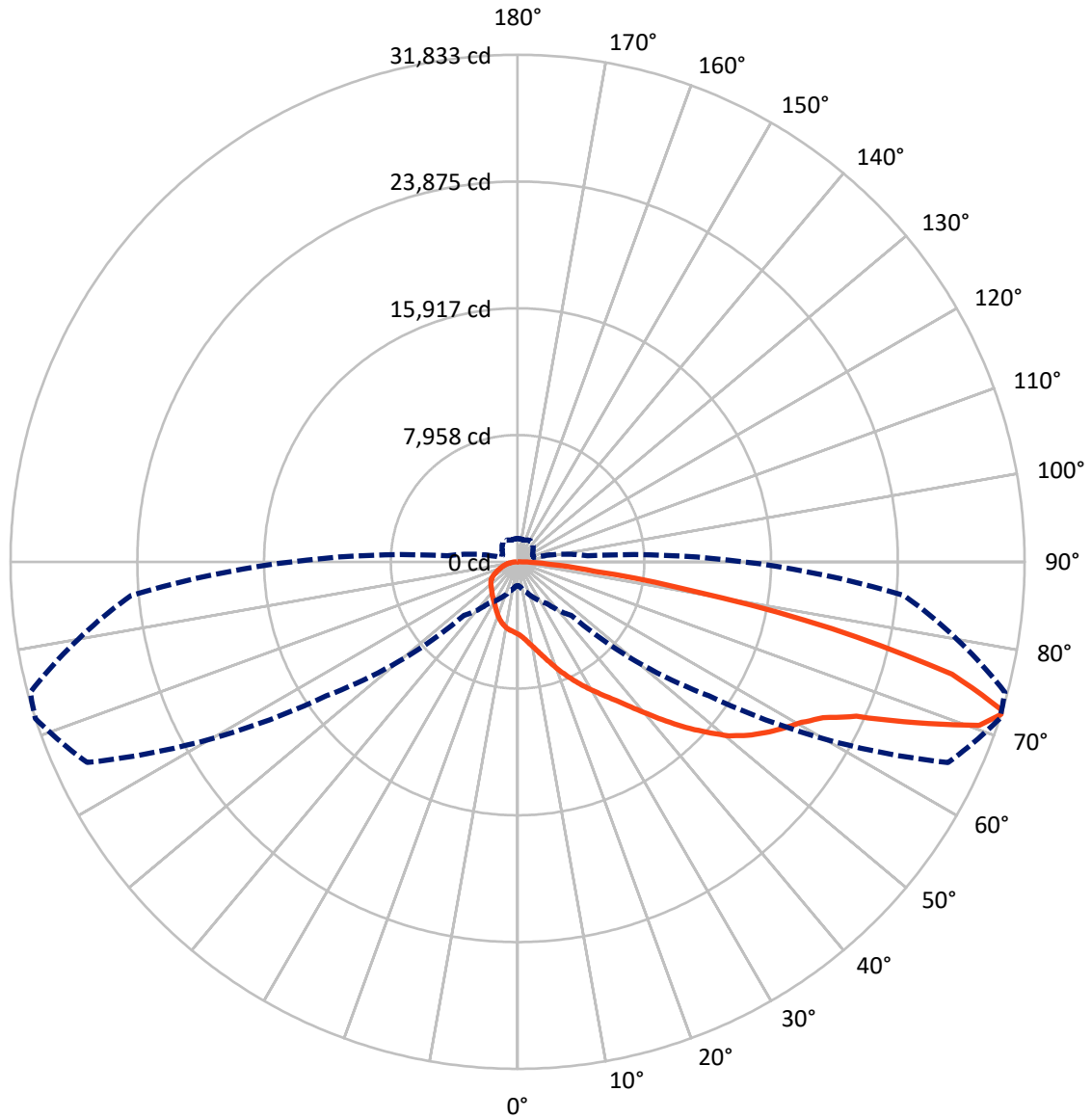
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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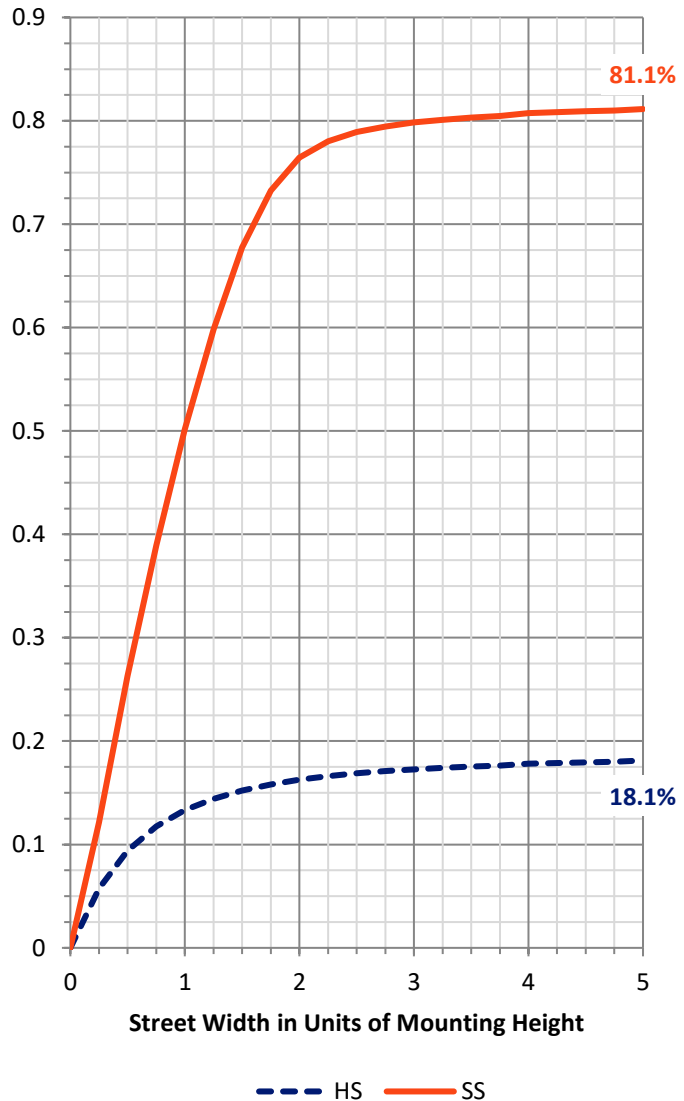
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6836.7	0.0	6836.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	30017.3	0.0	30017.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	36854.0	0.0	36854.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.3	1.2
10°-20°	1468.1	4.0
20°-30°	2572.6	7.0
30°-40°	3814.4	10.4
40°-50°	5578.9	15.1
50°-60°	7676.5	20.8
60°-70°	8546.3	23.2
70°-80°	5790.9	15.7
80°-90°	951.8	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°	36854.0	100.0
0°-180°	36854.0	100.0

**Coefficient of Utilization**

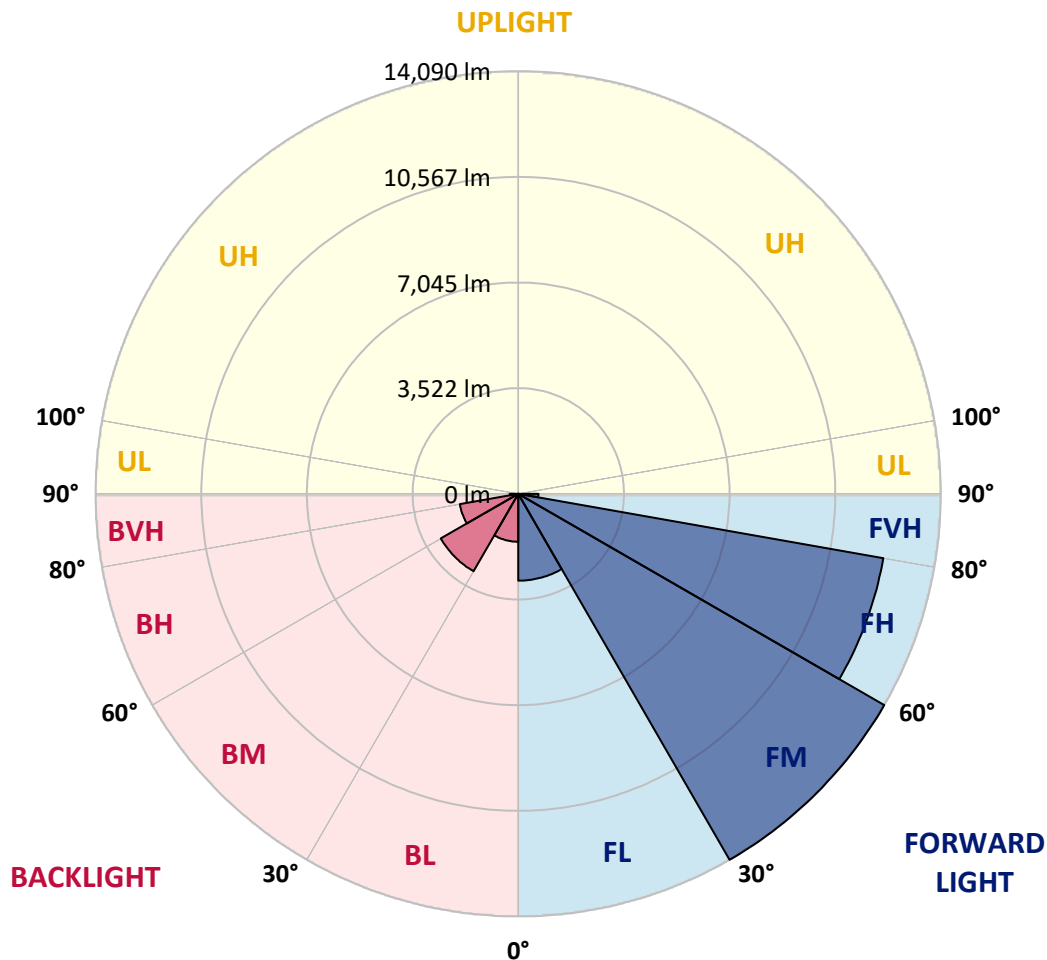


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2896.9	7.9			
FM (30°-60°)	14089.7	38.2			
FH (60°-80°)	12359.3	33.5			G5
FVH (80°-90°)	671.4	1.8			G4/750
BL (0°-30°)	1598.2	4.3	B3/2500		
BM (30°-60°)	2980.1	8.1	B3/5000		
BH (60°-80°)	1977.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	280.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0
2.5°	5008.6	5001.0	4974.3	4974.3	4923.6	4880.4	4799.2	4744.7	4679.9	4657.1	4581.0
5°	5493.3	5495.9	5462.9	5440.0	5365.2	5273.8	5135.5	5009.9	4884.2	4833.5	4677.4
7.5°	5900.7	5895.6	5886.7	5867.7	5797.9	5704.0	5517.4	5330.9	5145.6	5069.5	4800.5
10°	6162.1	6173.5	6181.1	6190.0	6160.8	6093.6	5917.2	5690.0	5447.7	5343.6	4947.7
12.5°	6294.1	6314.4	6349.9	6410.8	6459.0	6451.4	6323.2	6082.1	5794.1	5663.4	5131.7
15°	6371.5	6398.1	6453.9	6563.1	6698.9	6776.3	6742.0	6523.7	6202.7	6041.5	5356.3
17.5°	6419.7	6441.3	6527.5	6673.5	6875.2	7080.8	7170.9	6988.2	6664.6	6480.6	5613.9
20°	6452.7	6469.2	6577.0	6748.3	7009.7	7337.1	7588.4	7542.7	7173.4	6934.9	5882.9
22.5°	6526.3	6540.2	6643.0	6815.6	7104.9	7527.5	7990.7	8059.2	7710.2	7439.9	6171.0
25°	6731.8	6731.8	6818.1	6938.7	7210.2	7692.5	8330.7	8634.0	8258.4	7943.7	6437.4
27.5°	7124.0	7120.1	7151.9	7193.7	7399.3	7860.0	8634.0	9141.6	8826.9	8483.0	6696.3
30°	7588.4	7613.8	7617.6	7597.3	7693.7	8069.3	8914.5	9677.1	9399.2	9028.7	6961.5
32.5°	8186.1	8202.6	8183.5	8116.3	8102.3	8366.3	9189.8	10238.0	10018.5	9598.4	7203.9
35°	8944.9	8913.2	8853.6	8716.5	8585.8	8763.5	9504.5	10798.9	10713.9	10287.5	7537.6
37.5°	9758.3	9759.6	9686.0	9375.1	9194.9	9271.0	9938.5	11434.6	11555.2	11107.2	7965.3
40°	10410.6	10444.8	10490.5	10081.9	9848.4	9953.7	10490.5	12171.9	12550.0	12079.3	8522.4
42.5°	10866.1	10905.5	11034.9	10778.6	10536.2	10731.6	11140.2	12958.6	13666.7	13201.0	9174.6
45°	11348.3	11369.9	11461.3	11350.9	11196.1	11636.4	11872.4	13773.3	14848.1	14396.4	9904.3
47.5°	11855.9	11878.8	11972.7	11899.1	11817.8	12481.5	12636.3	14541.0	15980.0	15709.8	10683.4
50°	12482.8	12498.0	12586.8	12453.6	12479.0	13118.5	13319.0	15245.3	17166.5	16889.9	11465.1
52.5°	13338.1	13341.9	13465.0	13344.4	13225.1	13585.5	13906.6	15909.0	18096.7	17966.0	12246.8
55°	14008.1	14048.7	14452.2	14426.8	14358.3	14009.3	14397.6	16540.9	18926.6	18988.8	13076.7
57.5°	13580.4	13739.1	14556.3	15132.4	15693.3	15063.9	15061.3	17252.8	19698.1	19992.5	13989.0
60°	11894.0	12109.7	13314.0	14591.8	16346.8	16898.8	16439.4	18122.1	20477.2	20987.4	15132.4
62.5°	8494.4	8849.7	10481.6	12522.1	15450.9	18114.4	19243.8	19501.4	21536.8	22139.6	16618.3
65°	4294.2	4563.2	5931.1	8389.1	12344.5	17320.1	22291.9	22521.5	23378.1	23913.6	18906.3
67.5°	2609.0	2710.5	3378.0	4666.0	7568.1	13491.6	23286.7	27555.5	26941.3	27225.6	22168.8
70°	1922.5	1997.3	2413.6	3098.8	4352.5	7917.1	20233.6	31148.0	30744.4	30712.7	24579.8
72°	1497.4	1551.9	1919.9	2503.7	3182.6	4749.7	14665.4	29821.9	31833.2	31673.3	24359.0
72.5°	1420.0	1468.2	1803.2	2356.5	3007.4	4305.6	13185.8	28927.3	31754.5	31682.2	24073.5
75°	1118.0	1152.2	1334.9	1822.2	2353.9	2442.8	7225.5	22417.5	28169.7	29341.0	21652.3
77.5°	925.1	930.1	1026.6	1326.1	1834.9	1727.1	3549.3	15553.7	20171.4	21459.4	15338.0
80°	753.8	760.1	805.8	930.1	1388.2	1277.8	1685.2	8943.6	11293.8	11307.7	7294.0
82.5°	600.2	601.5	652.2	680.2	997.4	913.7	965.7	4199.0	4935.0	4747.2	2621.7
85°	422.6	413.7	637.0	558.3	652.2	586.3	533.0	1662.3	2040.5	1951.7	821.0
87.5°	140.9	145.9	283.0	361.7	380.7	332.5	237.3	637.0	770.3	763.9	260.1
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°	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0	4534.0
2.5°	4556.8	4516.2	4456.6	4390.6	4338.6	4285.3	4245.9	4225.6	4202.8	4183.8	4206.6
5°	4605.1	4528.9	4402.0	4277.7	4186.3	4105.1	4046.7	4016.3	3988.3	3969.3	3971.9
7.5°	4683.7	4560.7	4347.5	4166.0	4039.1	3951.5	3891.9	3871.6	3853.8	3848.8	3855.1
10°	4767.5	4586.0	4275.1	4034.0	3889.4	3817.0	3790.4	3804.3	3817.0	3828.5	3841.1
12.5°	4862.7	4608.9	4169.8	3879.2	3756.1	3728.2	3754.9	3815.8	3860.2	3886.8	3903.3
15°	4987.0	4629.2	4048.0	3724.4	3641.9	3673.6	3763.7	3869.1	3946.5	3996.0	4003.6
17.5°	5101.2	4627.9	3891.9	3568.3	3549.3	3641.9	3777.7	3926.2	4030.2	4100.0	4114.0
20°	5219.2	4593.6	3710.4	3416.0	3455.4	3607.7	3784.0	3963.0	4088.6	4169.8	4188.8
22.5°	5329.6	4534.0	3511.2	3277.7	3376.7	3562.0	3759.9	3941.4	4067.0	4133.0	4153.3
25°	5404.5	4429.9	3309.5	3161.0	3306.9	3506.1	3681.3	3827.2	3921.1	3954.1	3959.2
27.5°	5442.6	4294.2	3119.1	3059.5	3234.6	3414.8	3535.3	3607.7	3634.3	3631.8	3626.7
30°	5447.7	4115.2	2955.4	2977.0	3150.8	3280.3	3337.4	3323.4	3289.2	3230.8	3235.9
32.5°	5431.2	3913.5	2818.4	2898.3	3044.2	3116.6	3119.1	3051.9	2960.5	2867.9	2842.5
35°	5436.2	3715.5	2697.8	2809.5	2914.8	2946.5	2917.3	2818.4	2694.0	2574.7	2549.3
37.5°	5492.1	3542.9	2593.8	2706.7	2771.4	2779.0	2737.2	2633.1	2541.7	2425.0	2414.8
40°	5625.3	3419.9	2494.8	2591.2	2628.0	2631.8	2572.2	2498.6	2506.2	2444.0	2442.8
42.5°	5865.1	3366.6	2407.2	2470.7	2493.5	2501.1	2455.4	2408.5	2474.5	2433.9	2419.9
45°	6174.8	3379.2	2333.6	2352.7	2394.5	2430.1	2402.1	2345.0	2370.4	2194.0	2135.7
47.5°	6532.6	3460.5	2275.2	2251.1	2323.5	2390.7	2347.6	2261.3	2171.2	1996.1	1963.1
50°	6951.4	3586.1	2222.0	2150.9	2246.1	2337.4	2294.3	2171.2	2035.4	1950.4	1939.0
52.5°	7387.9	3739.6	2168.7	2040.5	2148.4	2296.8	2275.2	2150.9	1983.4	1899.6	1884.4
55°	7882.8	3894.4	2101.4	1912.3	2043.0	2277.8	2266.4	2077.3	1944.1	1897.1	1885.7
57.5°	8498.2	4070.8	2012.6	1779.1	1944.1	2209.3	2173.7	2032.9	1903.4	1867.9	1864.1
60°	9300.2	4331.0	1884.4	1637.0	1823.5	2103.9	2096.3	1968.2	1838.7	1813.3	1808.3
62.5°	10503.2	4761.1	1708.0	1494.8	1689.0	1925.0	1994.8	1880.6	1770.2	1768.9	1771.5
65°	12368.6	5408.3	1516.4	1370.5	1553.2	1774.0	1876.8	1790.5	1700.4	1725.8	1729.6
67.5°	14530.9	5945.1	1328.6	1248.7	1414.9	1630.6	1770.2	1700.4	1607.8	1673.8	1675.0
70°	15250.4	5465.4	1163.6	1128.1	1271.5	1492.3	1654.7	1601.4	1507.5	1573.5	1567.2
72°	14192.1	4412.2	1057.0	1036.7	1163.6	1378.1	1551.9	1508.8	1416.2	1460.6	1444.1
72.5°	13858.3	4206.6	1030.4	1013.9	1134.5	1348.9	1525.3	1486.0	1393.3	1431.4	1416.2
75°	12362.2	3653.3	885.7	889.5	989.8	1206.8	1375.6	1362.9	1267.7	1271.5	1266.4
77.5°	8966.5	2678.8	746.2	771.5	842.6	1060.9	1224.5	1216.9	1112.9	1093.8	1090.0
80°	4160.9	1366.7	607.8	619.3	692.9	887.0	1044.4	1034.2	950.5	926.3	912.4
82.5°	1425.0	649.7	456.8	464.4	536.8	714.4	906.0	899.7	829.9	782.9	753.8
85°	508.9	323.6	319.8	312.2	383.2	562.2	789.3	755.0	652.2	555.8	553.3
87.5°	165.0	138.3	165.0	163.7	223.3	380.7	573.6	488.6	473.3	393.4	385.8
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)