

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: P383233

Luminaire Tested: **GLEON-SA5C-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383233  
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-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 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: 34308 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

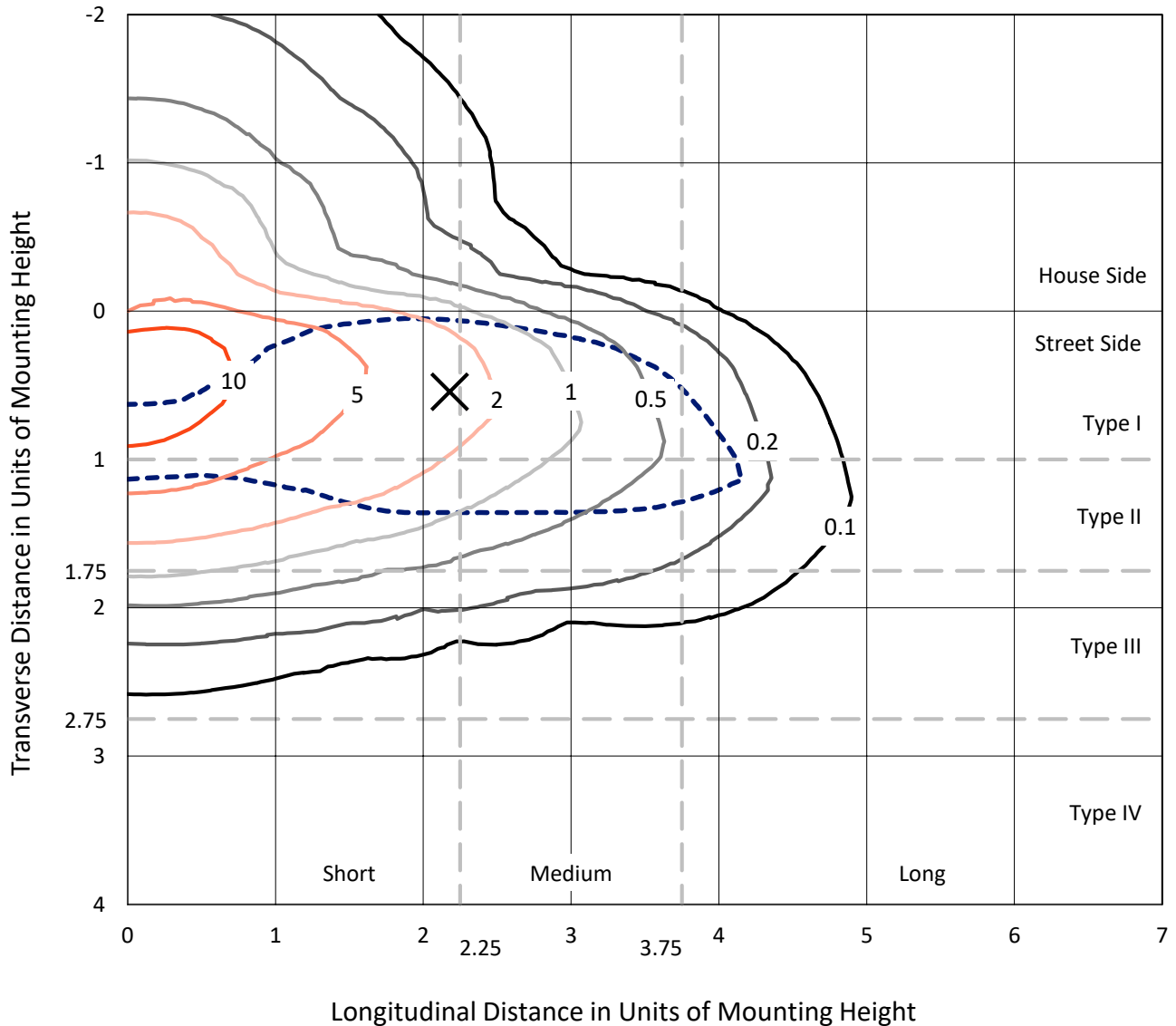
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

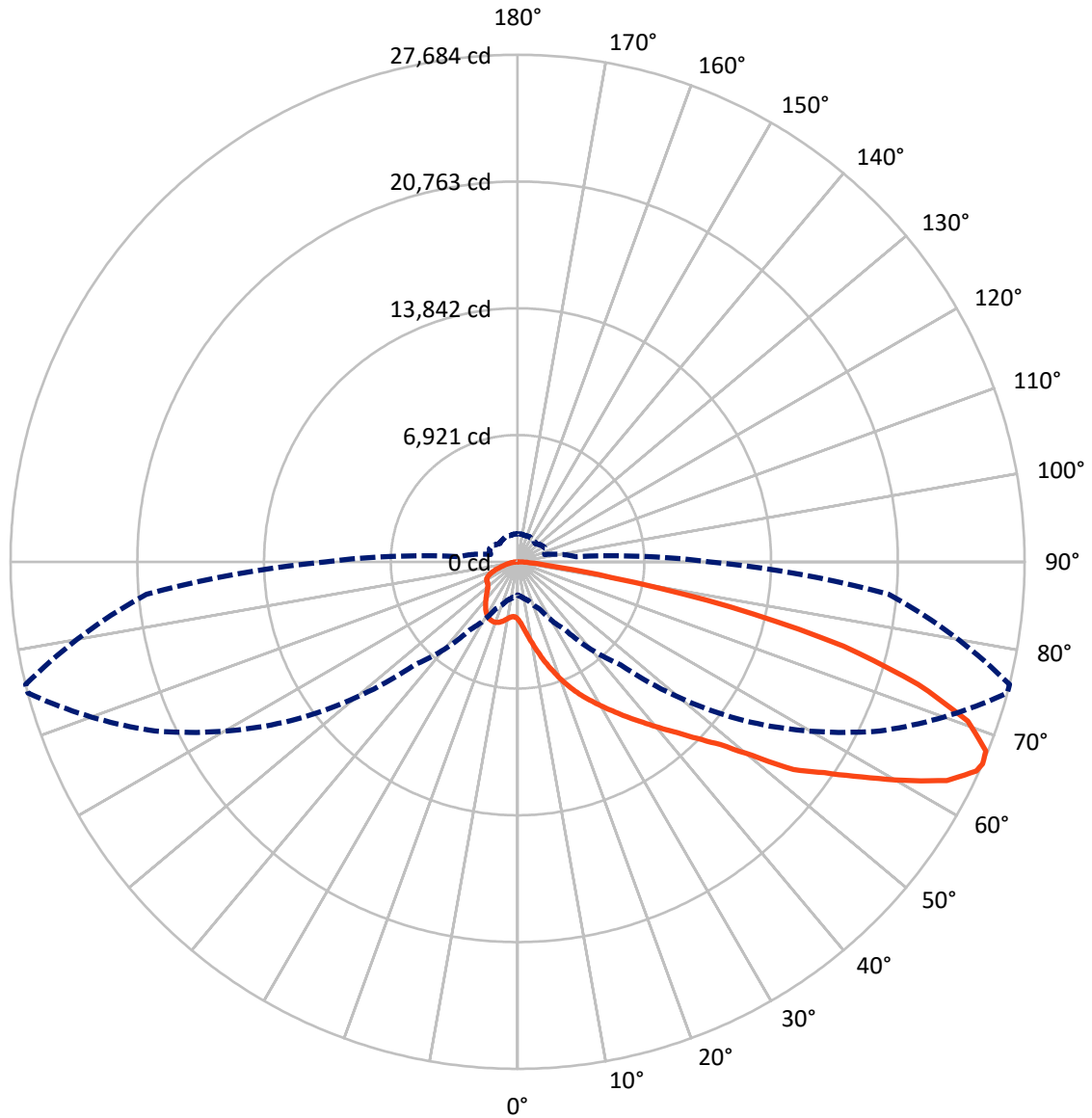
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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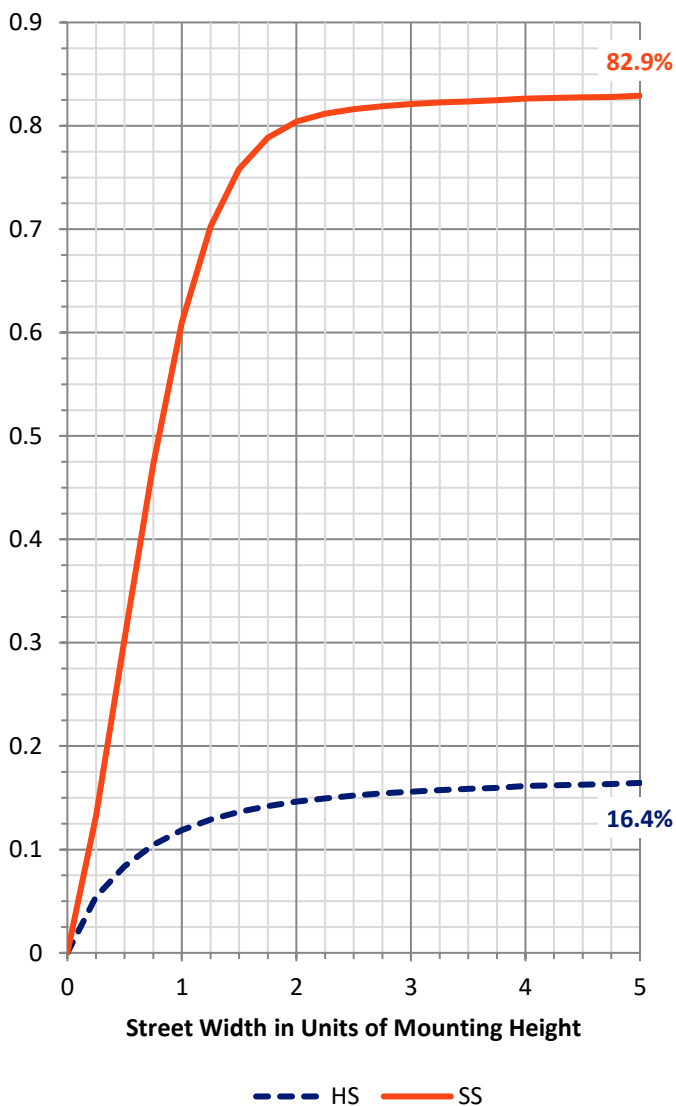
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5772.8	0.0	5772.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	28535.1	0.0	28535.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	34308.0	0.0	34308.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.9	1.1
10°-20°	1496.2	4.4
20°-30°	2907.4	8.5
30°-40°	4745.5	13.8
40°-50°	6483.5	18.9
50°-60°	7552.0	22.0
60°-70°	6770.5	19.7
70°-80°	3421.5	10.0
80°-90°	552.5	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°	34308.0	100.0
0°-180°	34308.0	100.0

**Coefficient of Utilization**

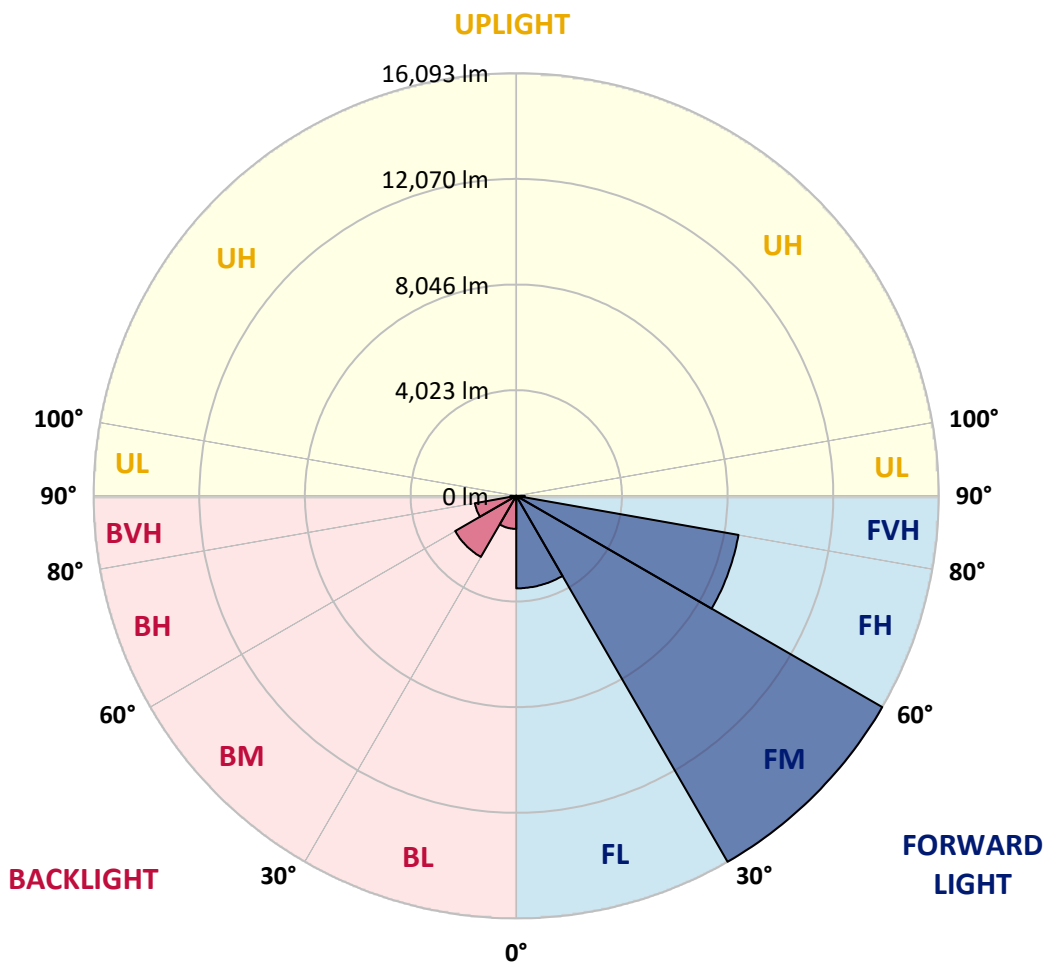


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3523.3	10.3			
FM (30°-60°)	16092.8	46.9			
FH (60°-80°)	8592.7	25.0			G4/12000
FVH (80°-90°)	326.3	1.0			G3/500
BL (0°-30°)	1259.1	3.7	B3/2500		
BM (30°-60°)	2688.2	7.8	B3/5000		
BH (60°-80°)	1599.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	226.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1
2.5°	4159.2	4096.3	4090.5	3998.5	3977.5	3801.6	3672.3	3537.3	3383.5	3353.2	3232.1
5°	5342.5	5336.7	5256.4	5106.1	4988.5	4688.0	4390.9	4076.5	3731.8	3675.9	3403.3
7.5°	6407.1	6397.8	6336.1	6174.2	6004.1	5634.9	5211.0	4728.7	4169.7	4087.0	3635.1
10°	7215.4	7211.9	7191.0	7072.1	6927.7	6573.7	6105.5	5447.4	4678.7	4565.7	3925.1
12.5°	7839.7	7846.7	7860.7	7818.8	7750.0	7448.4	6968.5	6209.1	5221.4	5109.6	4247.8
15°	8262.5	8283.5	8355.7	8415.0	8451.2	8266.0	7801.2	6988.3	5829.4	5695.5	4605.3
17.5°	8475.7	8499.0	8623.6	8802.9	8968.3	8949.7	8580.5	7731.4	6413.0	6283.7	4989.6
20°	8659.7	8677.2	8816.9	9032.4	9324.7	9454.0	9246.7	8446.5	7052.4	6898.7	5397.3
22.5°	9193.2	9215.2	9257.2	9379.5	9638.1	9875.6	9775.5	9123.2	7638.2	7495.0	5784.0
25°	10222.7	10249.5	10158.7	10055.0	10103.9	10269.3	10287.9	9740.5	8232.3	8070.4	6199.8
27.5°	11463.2	11501.6	11346.7	11079.9	10847.0	10782.9	10760.9	10246.0	8799.4	8611.9	6610.9
30°	12678.0	12744.3	12542.8	12196.9	11769.5	11468.9	11246.5	10741.0	9358.5	9179.1	6998.8
32.5°	13864.8	13838.0	13545.6	13207.9	12707.1	12330.9	11792.7	11272.1	9987.5	9781.3	7384.3
35°	14677.7	14687.1	14415.7	14015.0	13537.5	13248.7	12524.2	11845.2	10629.2	10439.4	7822.2
37.5°	15369.6	15326.6	15019.1	14645.1	14234.0	14110.5	13380.3	12476.5	11324.5	11117.3	8288.2
40°	15600.3	15550.1	15348.6	15079.6	14750.0	14739.5	14324.9	13191.6	12110.8	11905.7	8813.5
42.5°	15460.4	15396.4	15313.7	15240.3	15139.0	15185.6	15212.4	14030.2	12975.0	12745.5	9421.4
45°	14944.5	14847.8	14906.1	15065.6	15285.8	15549.0	16013.7	14958.5	13942.8	13750.7	10135.3
47.5°	14151.3	14063.9	14245.7	14586.9	15185.6	15851.8	16772.0	15983.4	15098.2	14907.2	11152.2
50°	13035.5	13061.1	13320.9	13941.6	14846.6	15991.6	17706.0	17340.3	16777.7	16599.5	12539.4
52.5°	11204.6	11209.2	11940.7	12959.8	14245.7	15919.4	18224.3	19074.6	19071.1	18855.6	13860.1
55°	9504.1	9607.8	10186.7	11541.2	13271.9	15630.5	18586.6	19917.9	20577.0	20324.3	15091.3
57.5°	7843.2	7903.8	8452.4	9812.7	11882.4	14860.6	18958.1	20930.0	22312.5	22152.9	16621.7
60°	5954.1	6047.2	6614.5	7871.2	10105.1	13494.4	18993.0	21986.4	24386.9	24226.1	18330.3
62.5°	3864.5	4025.3	4556.4	5733.9	7955.0	11529.6	18182.4	22677.0	26352.9	26295.8	19846.8
65°	2221.1	2342.3	2711.5	3619.9	5488.1	9062.7	16254.8	22411.5	27563.0	27530.4	20414.0
66°	1814.7	1890.3	2173.4	2829.1	4528.4	7958.5	15134.4	21851.3	27683.0	27684.2	20348.8
67.5°	1451.3	1485.0	1611.9	2025.5	3341.6	6308.1	13132.2	20615.5	27533.9	27574.7	19928.3
70°	1200.9	1218.3	1257.9	1358.1	1824.0	3804.0	9321.3	17404.4	26037.3	26068.7	18287.2
72.5°	1077.3	1087.9	1103.0	1116.9	1287.0	2125.6	5693.2	13923.0	22828.5	22869.2	15786.6
75°	976.1	981.9	979.5	980.7	1079.7	1354.6	2942.1	10395.1	18458.4	18376.9	12093.3
77.5°	857.2	863.1	851.4	853.8	955.0	1041.3	1464.0	7277.2	12456.7	11881.3	6813.6
80°	724.5	729.1	724.5	732.6	831.6	786.2	851.4	4094.0	5508.0	5209.8	2422.6
82.5°	547.4	567.2	581.2	613.8	684.9	559.0	569.5	1594.5	1677.2	1596.9	743.1
85°	240.0	292.3	437.9	469.4	514.8	335.5	373.8	649.9	682.5	661.6	270.2
87.5°	62.9	68.7	216.7	272.6	285.3	151.4	194.5	295.9	312.2	295.9	89.7
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°	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1	3133.1
2.5°	3168.0	3111.0	3008.4	2917.6	2848.9	2802.3	2755.7	2732.4	2718.4	2704.5	2706.8
5°	3269.4	3154.0	2978.2	2853.5	2783.7	2739.4	2716.1	2706.8	2701.0	2687.0	2687.0
7.5°	3421.9	3258.9	3016.6	2888.5	2833.8	2800.0	2786.0	2781.3	2774.3	2758.0	2760.4
10°	3614.1	3385.8	3097.0	2972.4	2922.3	2885.0	2865.2	2858.2	2845.4	2826.8	2829.1
12.5°	3840.1	3543.0	3202.9	3072.5	3012.0	2961.9	2929.3	2909.5	2887.3	2862.8	2864.0
15°	4087.0	3714.3	3317.1	3162.2	3079.5	3009.6	2957.2	2923.5	2888.5	2858.2	2857.1
17.5°	4337.4	3879.7	3404.4	3211.1	3099.4	3007.3	2936.2	2883.9	2840.8	2803.5	2800.0
20°	4607.6	4028.8	3453.4	3206.5	3062.0	2952.5	2858.2	2793.0	2745.3	2708.0	2702.1
22.5°	4882.5	4168.5	3461.5	3158.7	2979.4	2845.4	2746.4	2674.2	2625.3	2586.8	2572.8
25°	5134.0	4276.8	3427.7	3066.7	2864.0	2719.7	2623.0	2549.6	2510.0	2464.5	2450.5
27.5°	5363.6	4352.6	3360.2	2949.1	2734.7	2592.7	2501.9	2438.9	2395.8	2360.9	2349.3
30°	5569.7	4393.3	3249.5	2809.3	2602.0	2472.7	2395.8	2352.7	2315.5	2271.2	2263.0
32.5°	5765.3	4393.3	3107.5	2656.7	2470.4	2366.7	2321.3	2294.5	2252.6	2209.4	2197.8
35°	5961.1	4366.5	2939.8	2497.2	2349.3	2291.0	2288.6	2257.2	2193.1	2134.9	2119.8
37.5°	6167.2	4311.8	2751.0	2348.1	2250.2	2257.2	2277.0	2207.1	2116.3	2033.6	2011.5
40°	6400.1	4236.1	2555.4	2218.8	2167.5	2242.0	2245.6	2134.9	1957.9	1882.2	1862.3
42.5°	6673.8	4160.4	2373.7	2104.6	2102.3	2196.7	2186.2	1978.9	1872.9	1834.4	1824.0
45°	7033.7	4117.3	2201.3	1996.3	2051.1	2123.3	2084.8	1892.6	1848.4	1826.3	1817.0
47.5°	7601.0	4139.4	2042.9	1910.1	1999.8	2049.9	1896.2	1857.7	1826.3	1799.5	1790.2
50°	8311.5	4126.6	1914.8	1850.7	1941.6	1973.0	1811.1	1812.3	1796.0	1765.7	1751.8
52.5°	8846.1	4026.4	1832.1	1817.0	1890.3	1836.7	1757.6	1768.1	1759.9	1715.6	1700.4
55°	9362.0	3940.3	1790.2	1804.1	1853.0	1666.7	1694.7	1720.3	1712.1	1669.1	1662.1
57.5°	10003.8	3924.0	1764.5	1807.7	1821.6	1581.7	1634.1	1667.8	1662.1	1643.4	1639.9
60°	10789.9	3928.6	1741.2	1813.4	1786.7	1518.8	1577.0	1620.1	1623.6	1620.1	1617.8
62.5°	11222.1	3801.6	1683.0	1797.1	1724.9	1464.0	1517.6	1580.6	1581.7	1588.7	1587.5
65°	10855.1	3421.9	1574.7	1740.1	1621.3	1418.7	1466.3	1535.1	1517.6	1549.1	1549.1
66°	10498.7	3202.9	1521.1	1702.8	1577.0	1401.1	1450.0	1511.8	1489.6	1532.8	1532.8
67.5°	9770.8	2833.8	1424.4	1623.6	1514.1	1376.7	1431.4	1473.3	1443.1	1507.2	1502.5
70°	8440.8	2192.0	1229.9	1444.3	1410.5	1340.6	1405.8	1396.5	1352.2	1450.0	1431.4
72.5°	7116.5	1665.5	987.7	1209.0	1253.2	1295.1	1369.7	1298.7	1242.8	1311.4	1270.7
75°	5521.9	1252.1	780.4	939.9	1058.7	1224.1	1326.6	1185.7	1105.3	1098.3	1076.2
77.5°	2985.1	859.5	618.5	717.5	840.9	1135.6	1297.5	1064.6	943.4	915.4	898.0
80°	1182.2	559.0	449.6	543.9	588.2	1007.5	1227.6	923.6	778.0	750.1	723.3
82.5°	488.0	330.8	290.0	364.5	383.2	861.9	1101.8	757.1	601.0	831.6	882.8
85°	209.7	181.7	172.3	188.6	216.7	604.5	877.1	577.7	648.7	578.9	460.1
87.5°	62.9	76.9	73.4	72.2	79.2	144.4	467.1	321.5	476.4	180.5	135.1
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)