

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: P383429

Luminaire Tested: **GLEON-SA7B-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383429  
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-SA7B-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39228.4 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

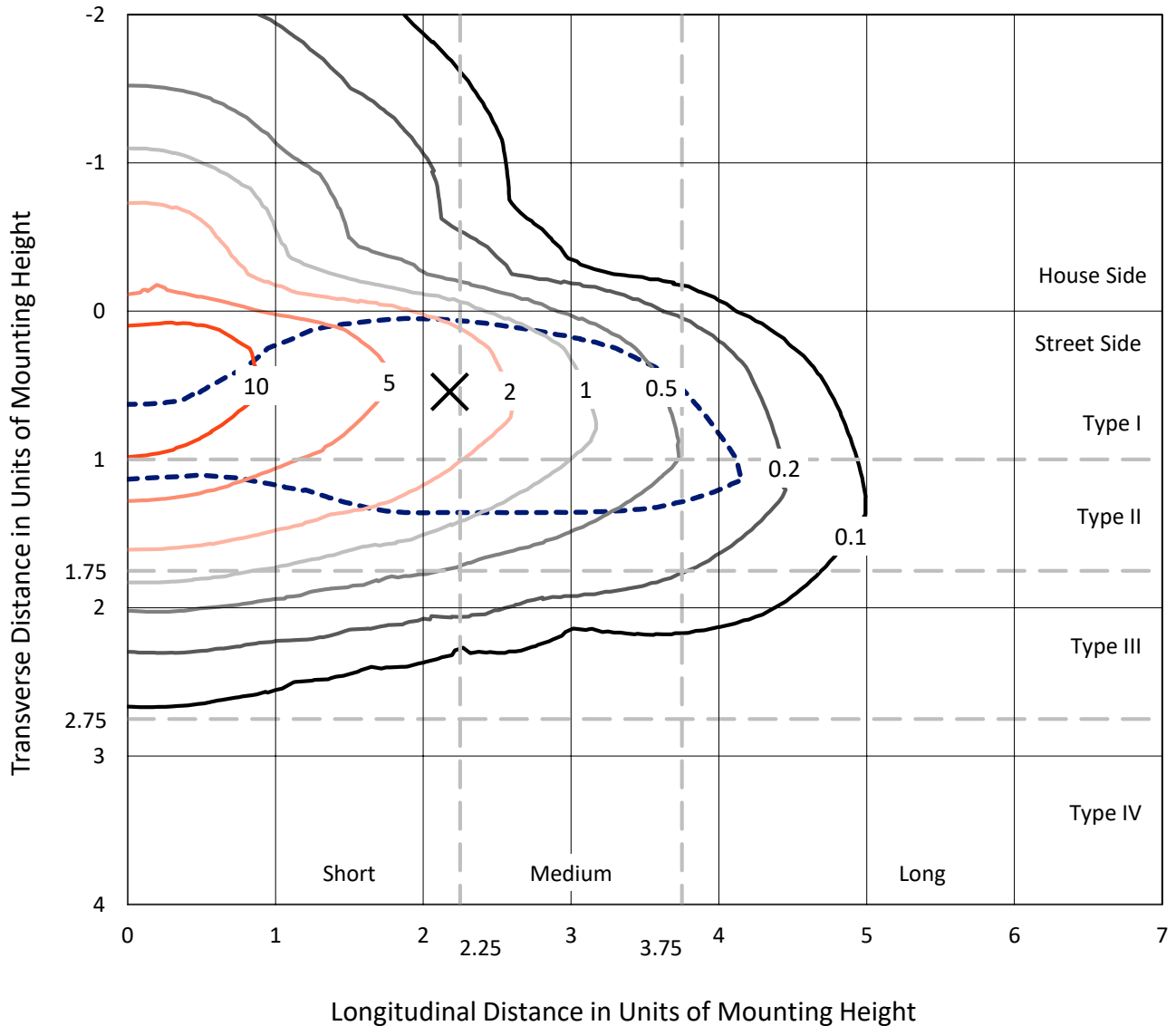
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

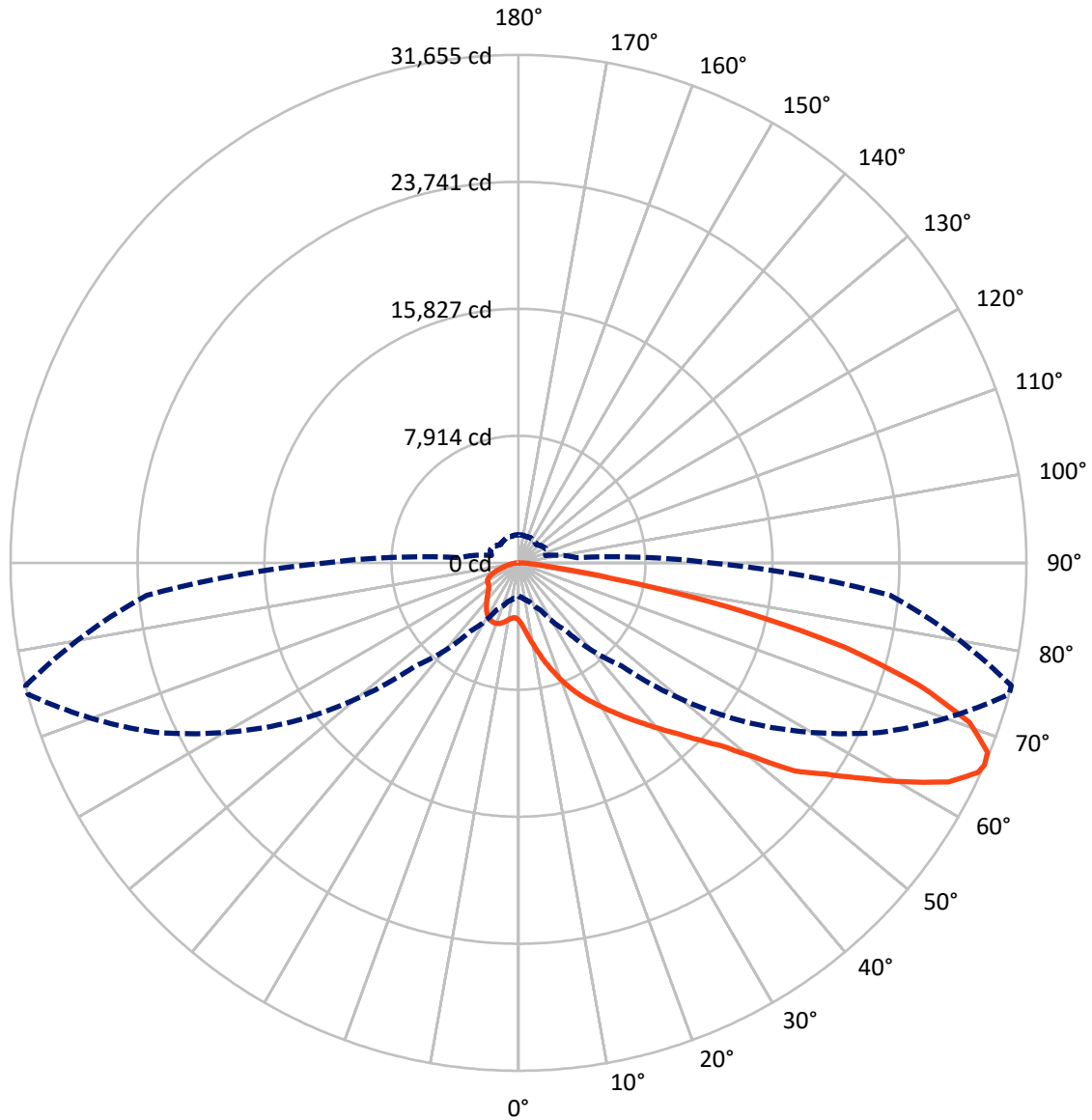
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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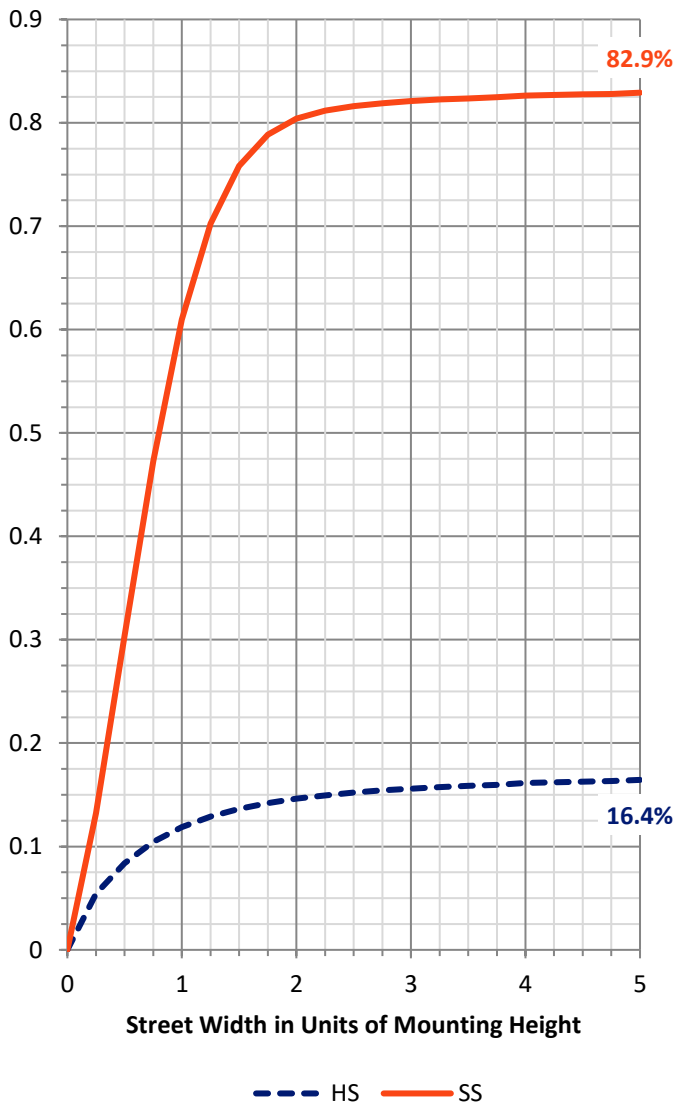
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6600.8	0.0	6600.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	32627.6	0.0	32627.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	39228.4	0.0	39228.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.2	1.1
10°-20°	1710.7	4.4
20°-30°	3324.4	8.5
30°-40°	5426.1	13.8
40°-50°	7413.4	18.9
50°-60°	8635.1	22.0
60°-70°	7741.5	19.7
70°-80°	3912.2	10.0
80°-90°	631.8	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°	39228.4	100.0
0°-180°	39228.4	100.0



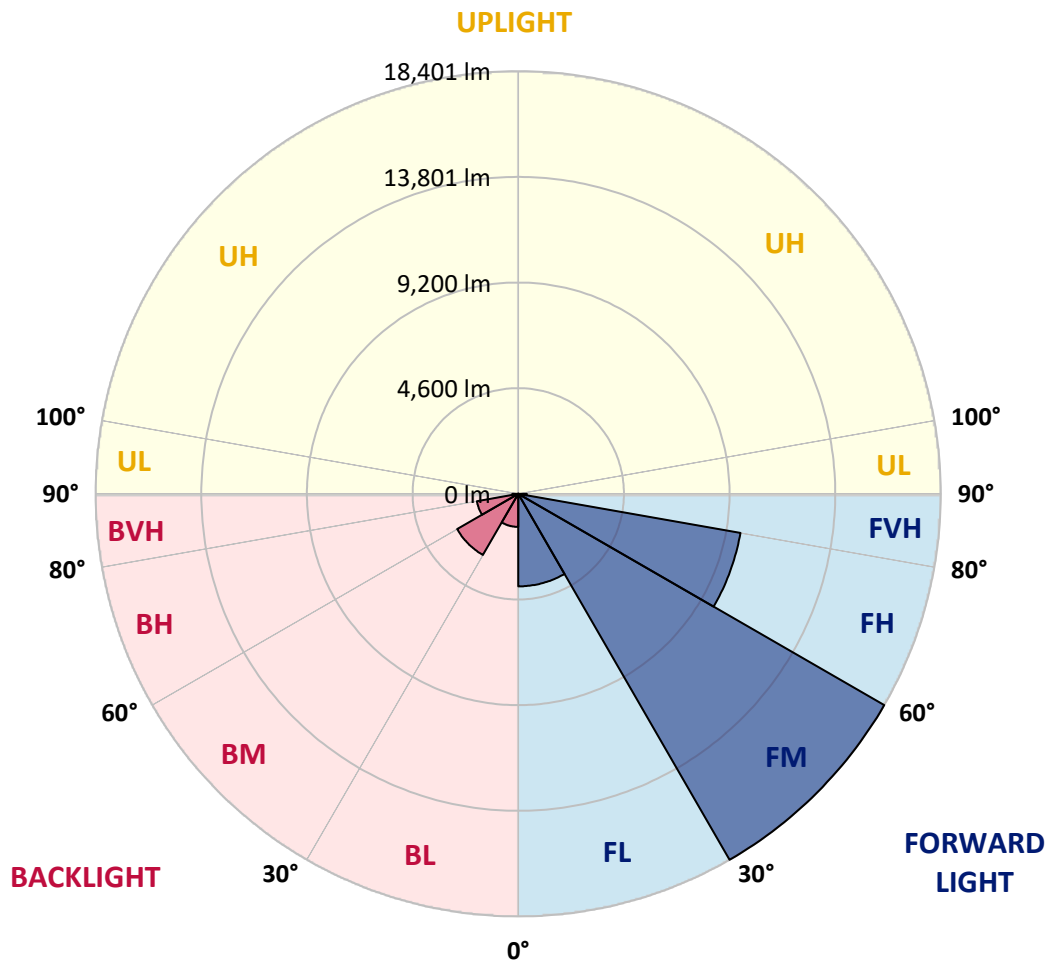
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4028.7	10.3			
FM (30°-60°)	18400.8	46.9			
FH (60°-80°)	9825.0	25.0			G4/12000
FVH (80°-90°)	373.1	1.0			G3/500
BL (0°-30°)	1439.7	3.7	B3/2500		
BM (30°-60°)	3073.7	7.8	B3/5000		
BH (60°-80°)	1828.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	258.7	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°	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5
2.5°	4755.7	4683.8	4677.1	4571.9	4548.0	4346.9	4199.0	4044.6	3868.8	3834.2	3695.6
5°	6108.8	6102.1	6010.3	5838.5	5704.0	5360.3	5020.8	4661.2	4267.0	4203.0	3891.4
7.5°	7326.1	7315.4	7244.7	7059.6	6865.2	6443.0	5958.3	5407.0	4767.7	4673.1	4156.5
10°	8250.3	8246.2	8222.3	8086.5	7921.3	7516.5	6981.1	6228.6	5349.7	5220.5	4488.0
12.5°	8964.1	8972.1	8988.0	8940.2	8861.5	8516.6	7967.9	7099.6	5970.3	5842.5	4856.9
15°	9447.5	9471.5	9554.0	9622.0	9663.2	9451.5	8920.1	7990.5	6665.5	6512.4	5265.8
17.5°	9691.3	9717.9	9860.3	10065.5	10254.6	10233.2	9811.1	8840.2	7332.7	7184.8	5705.3
20°	9901.6	9921.6	10081.4	10327.8	10662.1	10809.9	10572.9	9657.9	8063.8	7888.1	6171.4
22.5°	10511.6	10536.9	10584.8	10724.6	11020.3	11292.0	11177.5	10431.7	8733.7	8569.9	6613.5
25°	11688.9	11719.5	11615.7	11497.1	11553.1	11742.2	11763.5	11137.5	9412.9	9227.8	7089.0
27.5°	13107.2	13151.1	12974.0	12669.0	12402.7	12329.4	12304.2	11715.5	10061.5	9847.0	7559.0
30°	14496.2	14572.1	14341.7	13946.2	13457.4	13113.9	12859.5	12281.5	10700.7	10495.7	8002.6
32.5°	15853.3	15822.6	15488.4	15102.2	14529.5	14099.3	13484.1	12888.8	11419.8	11184.2	8443.4
35°	16782.9	16793.5	16483.2	16025.0	15479.1	15148.8	14320.4	13544.1	12153.6	11936.6	8944.1
37.5°	17573.9	17524.6	17173.1	16745.6	16275.4	16134.3	15299.3	14265.8	12948.7	12711.6	9476.8
40°	17837.6	17780.4	17550.0	17242.3	16865.4	16853.5	16379.3	15083.5	13847.6	13613.3	10077.5
42.5°	17677.8	17604.6	17510.0	17426.1	17310.2	17363.5	17394.1	16042.4	14835.8	14573.5	10772.6
45°	17087.8	16977.3	17043.9	17226.4	17478.1	17779.1	18310.4	17103.8	15942.5	15722.8	11589.0
47.5°	16180.9	16081.0	16288.8	16679.0	17363.5	18125.3	19177.4	18275.8	17263.6	17045.2	12751.6
50°	14905.0	14934.4	15231.4	15941.2	16976.0	18285.1	20245.4	19827.2	19184.0	18980.3	14337.7
52.5°	12811.6	12816.9	13653.2	14818.5	16288.8	18202.5	20838.1	21810.2	21806.2	21559.9	15848.0
55°	10867.2	10985.7	11647.6	13196.4	15175.4	17872.2	21252.2	22774.5	23528.2	23239.2	17255.6
57.5°	8968.1	9037.3	9664.6	11220.1	13586.6	16992.0	21677.1	23931.7	25512.6	25330.1	19005.5
60°	6807.9	6914.5	7563.0	9000.1	11554.4	15429.8	21717.1	25139.7	27884.4	27700.6	20959.3
62.5°	4418.8	4602.6	5209.9	6556.2	9095.9	13183.1	20790.1	25929.3	30132.4	30067.2	22693.2
65°	2539.7	2678.2	3100.4	4139.1	6275.3	10362.4	18586.1	25625.8	31516.1	31478.9	23341.8
66°	2074.9	2161.5	2485.1	3234.9	5177.9	9099.9	17304.9	24985.1	31653.3	31654.6	23267.2
67.5°	1659.4	1698.0	1843.2	2315.9	3820.8	7212.8	15015.6	23572.2	31482.9	31529.4	22786.4
70°	1373.0	1393.0	1438.3	1552.8	2085.5	4349.5	10658.1	19900.5	29771.5	29807.5	20910.0
72.5°	1231.9	1243.9	1261.2	1277.2	1471.6	2430.5	6509.7	15919.9	26102.5	26149.1	18050.7
75°	1116.0	1122.7	1120.0	1121.3	1234.6	1548.9	3364.0	11886.0	21105.8	21012.5	13827.7
77.5°	980.2	986.9	973.6	976.2	1092.1	1190.6	1674.0	8320.9	14243.2	13585.3	7790.8
80°	828.3	833.6	828.3	837.6	950.9	898.9	973.6	4681.1	6297.9	5957.0	2770.0
82.5°	625.9	648.5	664.6	701.8	783.1	639.2	651.2	1823.2	1917.8	1825.8	849.7
85°	274.3	334.2	500.7	536.7	588.6	383.5	427.5	743.1	780.5	756.4	309.0
87.5°	71.9	78.5	247.7	311.6	326.3	173.2	222.4	338.2	356.9	338.2	102.6
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°	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5	3582.5
2.5°	3622.4	3557.1	3439.9	3336.1	3257.5	3204.2	3151.0	3124.3	3108.3	3092.4	3095.0
5°	3738.2	3606.4	3405.3	3262.8	3182.9	3132.3	3105.7	3095.0	3088.4	3072.3	3072.3
7.5°	3912.7	3726.3	3449.2	3302.8	3240.2	3201.5	3185.6	3180.2	3172.3	3153.6	3156.3
10°	4132.4	3871.4	3541.2	3398.7	3341.4	3298.8	3276.2	3268.1	3253.5	3232.2	3234.9
12.5°	4390.8	4051.2	3662.4	3513.1	3443.9	3386.6	3349.4	3326.7	3301.4	3273.5	3274.8
15°	4673.1	4247.0	3792.9	3615.7	3521.2	3441.2	3381.3	3342.8	3302.8	3268.1	3266.8
17.5°	4959.5	4436.1	3892.8	3671.7	3543.8	3438.6	3357.4	3297.4	3248.1	3205.5	3201.5
20°	5268.5	4606.6	3948.6	3666.4	3501.2	3376.0	3268.1	3193.5	3138.9	3096.4	3089.7
22.5°	5582.8	4766.4	3958.0	3611.7	3406.7	3253.5	3140.2	3057.7	3001.8	2957.8	2941.8
25°	5870.4	4890.3	3919.4	3506.5	3274.8	3109.7	2999.1	2915.2	2869.9	2818.0	2802.0
27.5°	6132.8	4976.8	3842.2	3372.0	3127.0	2964.5	2860.6	2788.7	2739.4	2699.4	2686.1
30°	6368.5	5023.4	3715.6	3212.2	2975.2	2827.3	2739.4	2690.1	2647.6	2597.0	2587.7
32.5°	6592.2	5023.4	3553.1	3037.8	2824.6	2706.1	2654.2	2623.6	2575.6	2526.4	2513.0
35°	6815.9	4992.8	3361.4	2855.3	2686.1	2619.6	2616.9	2580.9	2507.7	2441.1	2423.8
37.5°	7051.7	4930.2	3145.6	2684.8	2572.9	2580.9	2603.6	2523.7	2419.8	2325.2	2300.0
40°	7318.1	4843.6	2921.9	2537.0	2478.4	2563.6	2567.6	2441.1	2238.7	2152.2	2129.5
42.5°	7631.0	4757.0	2714.2	2406.5	2403.9	2511.7	2499.7	2262.6	2141.4	2097.6	2085.5
45°	8042.5	4707.8	2517.0	2282.7	2345.3	2427.8	2383.8	2164.1	2113.5	2088.2	2077.5
47.5°	8691.1	4733.1	2335.9	2184.1	2286.7	2343.9	2168.1	2124.1	2088.2	2057.6	2046.9
50°	9503.5	4718.5	2189.4	2116.2	2220.1	2256.0	2070.9	2072.2	2053.6	2018.9	2003.0
52.5°	10114.7	4603.9	2094.9	2077.5	2161.5	2100.2	2009.6	2021.6	2012.3	1961.7	1944.3
55°	10704.7	4505.3	2046.9	2062.9	2118.8	1905.8	1937.7	1967.1	1957.6	1908.4	1900.5
57.5°	11438.5	4486.7	2017.6	2066.9	2082.8	1808.5	1868.5	1907.1	1900.5	1879.1	1875.1
60°	12337.4	4492.0	1991.0	2073.5	2042.9	1736.6	1803.2	1852.5	1856.5	1852.5	1849.8
62.5°	12831.5	4346.9	1924.4	2054.9	1972.4	1674.0	1735.3	1807.2	1808.5	1816.5	1815.2
65°	12412.0	3912.7	1800.5	1989.7	1853.8	1622.1	1676.7	1755.2	1735.3	1771.2	1771.2
66°	12004.5	3662.4	1739.3	1947.0	1803.2	1602.1	1658.1	1728.6	1703.3	1752.6	1752.6
67.5°	11172.1	3240.2	1628.7	1856.5	1731.3	1574.1	1636.7	1684.7	1650.1	1723.3	1718.0
70°	9651.3	2506.3	1406.4	1651.4	1612.8	1532.9	1607.5	1596.8	1546.2	1658.1	1636.7
72.5°	8137.1	1904.5	1129.3	1382.3	1433.0	1480.9	1566.1	1484.9	1421.0	1499.6	1452.9
75°	6313.8	1431.6	892.2	1074.7	1210.5	1399.7	1516.8	1355.8	1263.8	1255.8	1230.6
77.5°	3413.3	982.9	707.1	820.3	961.5	1298.5	1483.6	1217.3	1078.7	1046.8	1026.8
80°	1351.8	639.2	514.0	621.9	672.6	1152.0	1403.7	1056.1	889.6	857.7	827.0
82.5°	558.0	378.2	331.6	416.9	438.1	985.5	1259.8	865.7	687.2	950.9	1009.5
85°	239.7	207.7	197.1	215.7	247.7	691.2	1002.8	660.6	741.8	661.9	526.0
87.5°	71.9	87.9	83.9	82.5	90.5	165.2	534.1	367.6	544.7	206.4	154.5
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)