

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: P318211

Luminaire Tested: **GLEON-SA7C-827-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318211  
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-SA7C-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 36091 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

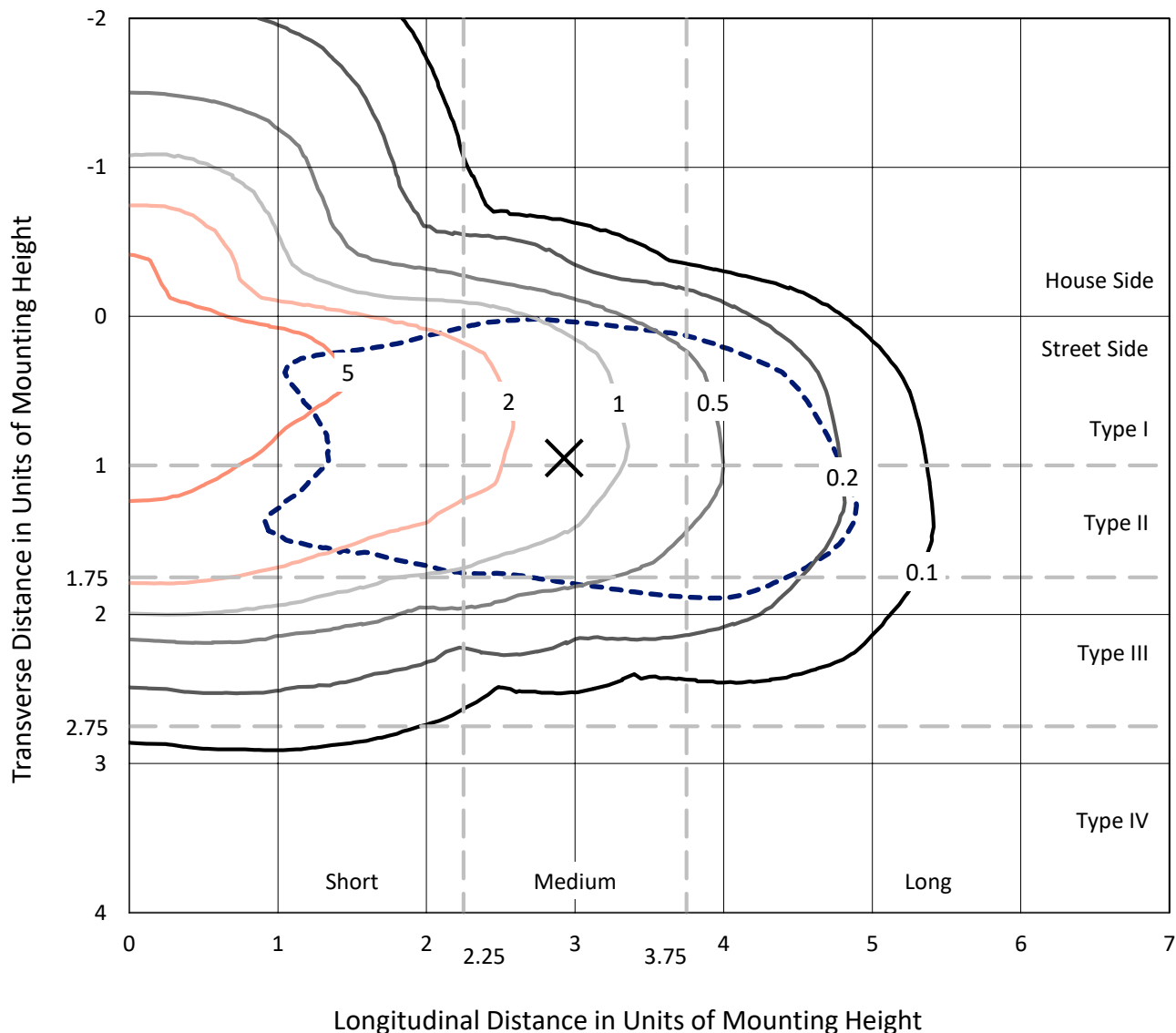
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

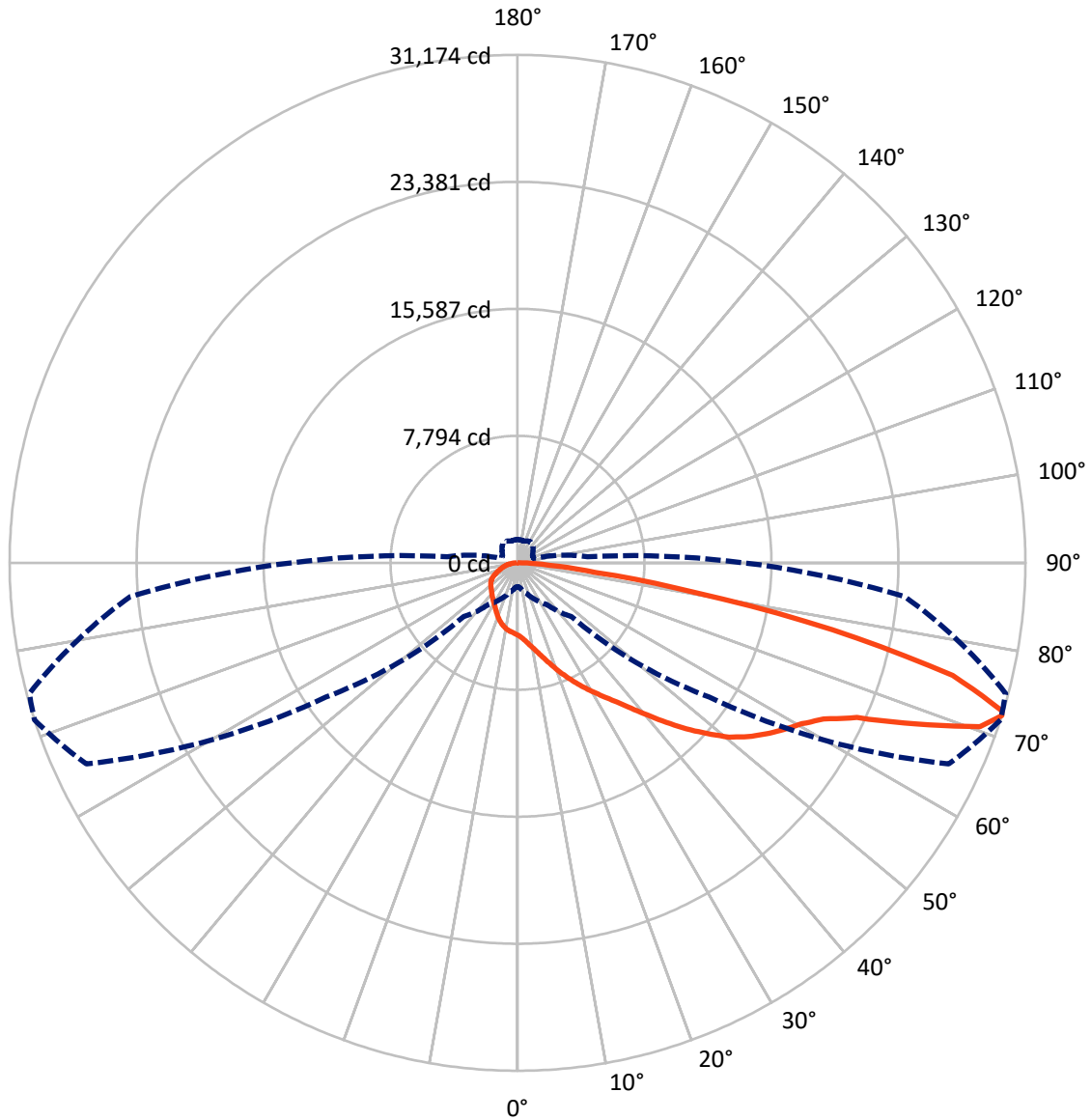
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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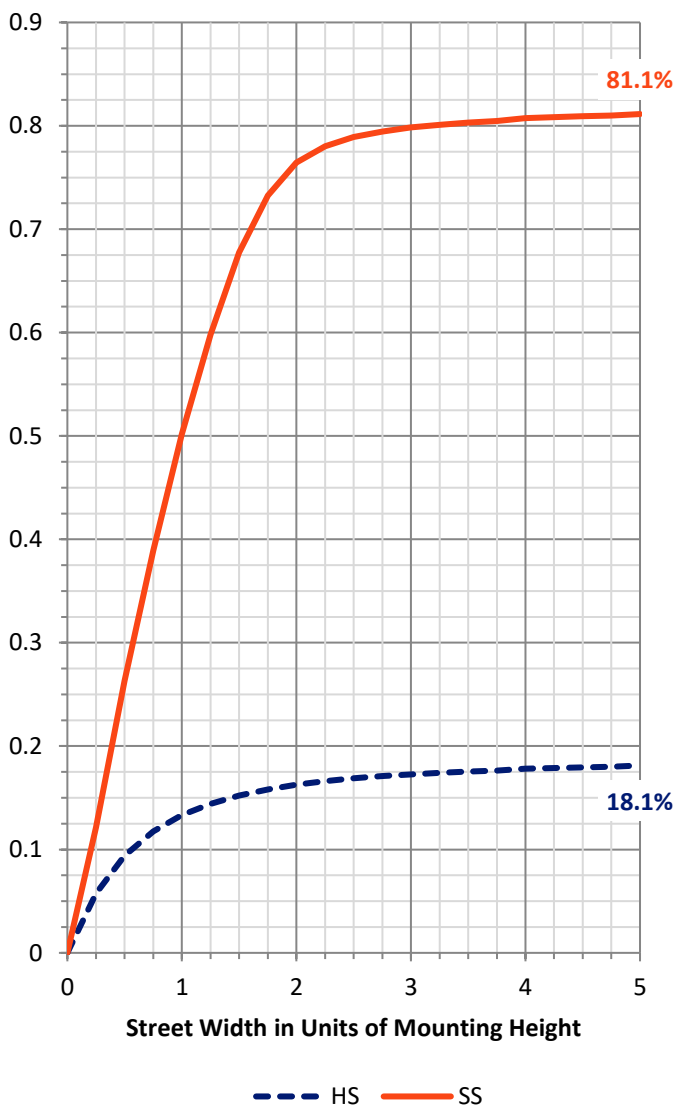
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6695.1	0.0	6695.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	29395.9	0.0	29395.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	36091.0	0.0	36091.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.9	1.2
10°-20°	1437.7	4.0
20°-30°	2519.4	7.0
30°-40°	3735.5	10.4
40°-50°	5463.4	15.1
50°-60°	7517.6	20.8
60°-70°	8369.3	23.2
70°-80°	5671.1	15.7
80°-90°	932.1	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°	36091.0	100.0
0°-180°	36091.0	100.0

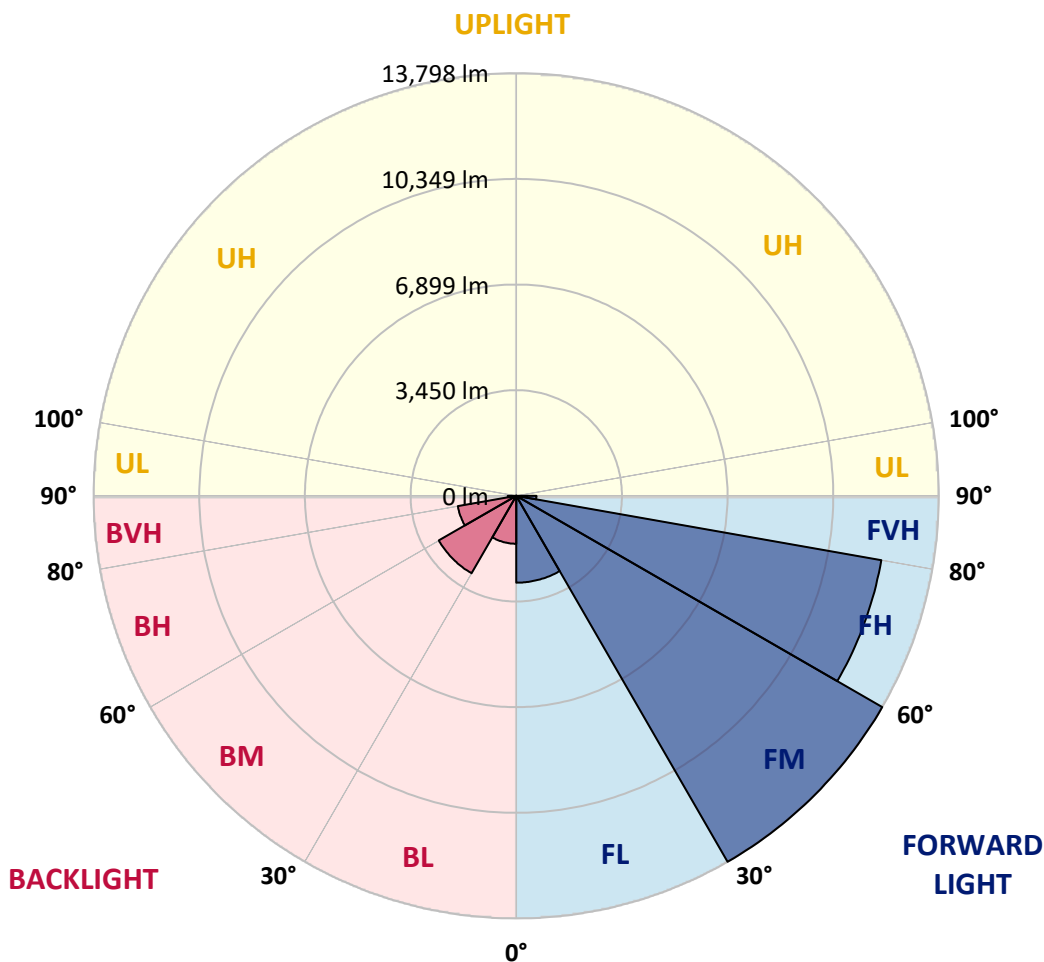


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2837.0	7.9			
FM (30°-60°)	13798.0	38.2			
FH (60°-80°)	12103.4	33.5			G5
FVH (80°-90°)	657.5	1.8			G4/750
BL (0°-30°)	1565.1	4.3	B3/2500		
BM (30°-60°)	2918.4	8.1	B3/5000		
BH (60°-80°)	1937.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	274.6	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°	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1
2.5°	4904.9	4897.4	4871.3	4871.3	4821.6	4779.4	4699.9	4646.4	4583.0	4560.7	4486.1
5°	5379.6	5382.1	5349.8	5327.4	5254.1	5164.6	5029.2	4906.1	4783.1	4733.4	4580.6
7.5°	5778.5	5773.5	5764.8	5746.2	5677.9	5585.9	5403.2	5220.5	5039.1	4964.6	4701.1
10°	6034.5	6045.7	6053.1	6061.8	6033.3	5967.4	5794.7	5572.2	5334.9	5233.0	4845.3
12.5°	6163.7	6183.6	6218.4	6278.1	6325.3	6317.8	6192.3	5956.2	5674.1	5546.1	5025.4
15°	6239.6	6265.6	6320.3	6427.2	6560.2	6636.0	6602.4	6388.7	6074.3	5916.5	5245.4
17.5°	6286.8	6307.9	6392.4	6535.3	6732.9	6934.2	7022.4	6843.5	6526.6	6346.4	5497.7
20°	6319.1	6335.2	6440.9	6608.6	6864.6	7185.2	7431.3	7386.6	7024.9	6791.3	5761.1
22.5°	6391.2	6404.8	6505.5	6674.5	6957.8	7371.6	7825.2	7892.3	7550.6	7285.9	6043.2
25°	6592.5	6592.5	6677.0	6795.0	7061.0	7533.2	8158.3	8455.3	8087.4	7779.2	6304.2
27.5°	6976.5	6972.7	7003.8	7044.8	7246.1	7697.2	8455.3	8952.3	8644.2	8307.4	6557.7
30°	7431.3	7456.1	7459.9	7440.0	7534.4	7902.3	8729.9	9476.8	9204.6	8841.7	6817.4
32.5°	8016.6	8032.8	8014.1	7948.3	7934.6	8193.1	8999.6	10026.0	9811.0	9399.7	7054.8
35°	8759.7	8728.7	8670.3	8536.0	8408.0	8582.0	9307.8	10575.3	10492.0	10074.5	7381.6
37.5°	9556.3	9557.5	9485.5	9181.0	9004.5	9079.1	9732.8	11197.9	11315.9	10877.3	7800.4
40°	10195.0	10228.6	10273.3	9873.2	9644.5	9747.7	10273.3	11919.9	12290.2	11829.2	8345.9
42.5°	10641.2	10679.7	10806.4	10555.4	10318.1	10509.4	10909.6	12690.4	13383.8	12927.7	8984.7
45°	11113.4	11134.5	11224.0	11115.9	10964.3	11395.5	11626.6	13488.2	14540.7	14098.3	9699.2
47.5°	11610.5	11632.8	11724.8	11652.7	11573.2	12223.1	12374.7	14240.0	15649.2	15384.5	10462.2
50°	12224.4	12239.3	12326.3	12195.8	12220.6	12846.9	13043.3	14929.7	16811.1	16540.2	11227.7
52.5°	13061.9	13065.7	13186.2	13068.1	12951.3	13304.2	13618.6	15579.6	17722.0	17594.0	11993.2
55°	13718.1	13757.8	14153.0	14128.2	14061.0	13719.3	14099.6	16198.5	18534.7	18595.6	12805.9
57.5°	13299.3	13454.6	14254.9	14819.1	15368.4	14752.0	14749.5	16895.6	19290.3	19578.6	13699.4
60°	11647.7	11859.0	13038.3	14289.7	16008.3	16548.9	16099.1	17746.9	20053.3	20552.9	14819.1
62.5°	8318.6	8666.5	10264.6	12262.9	15131.0	17739.4	18845.4	19097.7	21090.9	21681.2	16274.3
65°	4205.3	4468.7	5808.3	8215.4	12088.9	16961.5	21830.4	22055.3	22894.1	23418.5	18514.9
67.5°	2555.0	2654.4	3308.0	4569.4	7411.4	13212.3	22804.6	26985.0	26383.6	26661.9	21709.8
70°	1882.7	1956.0	2363.6	3034.7	4262.4	7753.1	19814.7	30503.1	30107.9	30076.8	24070.9
72°	1466.4	1519.8	1880.2	2451.8	3116.7	4651.4	14361.8	29204.5	31174.1	31017.6	23854.7
72.5°	1390.6	1437.8	1765.9	2307.7	2945.2	4216.5	12912.8	28328.4	31097.1	31026.3	23575.1
75°	1094.8	1128.4	1307.3	1784.5	2305.2	2392.2	7075.9	21953.4	27586.5	28733.5	21204.0
77.5°	905.9	910.9	1005.3	1298.6	1796.9	1691.3	3475.8	15231.7	19753.8	21015.1	15020.4
80°	738.2	744.4	789.1	910.9	1359.5	1251.4	1650.3	8758.5	11059.9	11073.6	7143.0
82.5°	587.8	589.0	638.7	666.1	976.8	894.7	945.7	4112.1	4832.8	4648.9	2567.4
85°	413.8	405.1	623.8	546.8	638.7	574.1	521.9	1627.9	1998.2	1911.3	804.0
87.5°	137.9	142.9	277.1	354.2	372.8	325.6	232.4	623.8	754.3	748.1	254.8
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°	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1	4440.1
2.5°	4462.5	4422.7	4364.3	4299.7	4248.8	4196.6	4158.0	4138.2	4115.8	4097.2	4119.5
5°	4509.7	4435.2	4310.9	4189.1	4099.6	4020.1	3962.9	3933.1	3905.8	3887.1	3889.6
7.5°	4586.8	4466.2	4257.5	4079.8	3955.5	3869.7	3811.3	3791.4	3774.1	3769.1	3775.3
10°	4668.8	4491.1	4186.6	3950.5	3808.8	3738.0	3711.9	3725.6	3738.0	3749.2	3761.6
12.5°	4762.0	4513.5	4083.5	3798.9	3678.4	3651.0	3677.1	3736.8	3780.3	3806.4	3822.5
15°	4883.8	4533.3	3964.2	3647.3	3566.5	3597.6	3685.8	3789.0	3864.8	3913.2	3920.7
17.5°	4995.6	4532.1	3811.3	3494.4	3475.8	3566.5	3699.5	3844.9	3946.8	4015.1	4028.8
20°	5111.2	4498.5	3633.6	3345.3	3383.8	3533.0	3705.7	3880.9	4004.0	4083.5	4102.1
22.5°	5219.3	4440.1	3438.5	3209.9	3306.8	3488.2	3682.1	3859.8	3982.8	4047.4	4067.3
25°	5292.6	4338.2	3240.9	3095.5	3238.5	3433.6	3605.0	3748.0	3839.9	3872.2	3877.2
27.5°	5329.9	4205.3	3054.5	2996.1	3167.6	3344.1	3462.1	3533.0	3559.1	3556.6	3551.6
30°	5334.9	4030.0	2894.2	2915.4	3085.6	3212.4	3268.3	3254.6	3221.1	3163.9	3168.9
32.5°	5318.7	3832.5	2760.0	2838.3	2981.2	3052.0	3054.5	2988.7	2899.2	2808.5	2783.6
35°	5323.7	3638.6	2642.0	2751.3	2854.5	2885.5	2856.9	2760.0	2638.2	2521.4	2496.6
37.5°	5378.4	3469.6	2540.1	2650.7	2714.0	2721.5	2680.5	2578.6	2489.1	2374.8	2364.8
40°	5508.8	3349.1	2443.1	2537.6	2573.6	2577.3	2518.9	2446.9	2454.3	2393.4	2392.2
42.5°	5743.7	3296.9	2357.4	2419.5	2441.9	2449.3	2404.6	2358.6	2423.2	2383.5	2369.8
45°	6046.9	3309.3	2285.3	2303.9	2345.0	2379.8	2352.4	2296.5	2321.3	2148.6	2091.4
47.5°	6397.4	3388.8	2228.1	2204.5	2275.4	2341.2	2299.0	2214.5	2126.2	1954.8	1922.4
50°	6807.5	3511.8	2176.0	2106.4	2199.6	2289.0	2246.8	2126.2	1993.3	1910.0	1898.8
52.5°	7234.9	3662.2	2123.8	1998.2	2103.9	2249.3	2228.1	2106.4	1942.3	1860.3	1845.4
55°	7719.6	3813.8	2057.9	1872.7	2000.7	2230.6	2219.4	2034.3	1903.8	1857.8	1846.6
57.5°	8322.3	3986.6	1970.9	1742.3	1903.8	2163.5	2128.7	1990.8	1864.0	1829.2	1825.5
60°	9107.7	4241.3	1845.4	1603.1	1785.7	2060.4	2052.9	1927.4	1800.7	1775.8	1770.8
62.5°	10285.8	4662.6	1672.7	1463.9	1654.0	1885.2	1953.5	1841.7	1733.6	1732.3	1734.8
65°	12112.5	5296.3	1485.0	1342.1	1521.1	1737.3	1837.9	1753.4	1665.2	1690.1	1693.8
67.5°	14230.1	5822.0	1301.1	1222.8	1385.6	1596.9	1733.6	1665.2	1574.5	1639.1	1640.4
70°	14934.7	5352.3	1139.5	1104.8	1245.2	1461.4	1620.5	1568.3	1476.3	1540.9	1534.7
72°	13898.3	4320.8	1035.2	1015.3	1139.5	1349.6	1519.8	1477.6	1386.8	1430.3	1414.2
72.5°	13571.4	4119.5	1009.1	992.9	1111.0	1321.0	1493.7	1455.2	1364.5	1401.8	1386.8
75°	12106.3	3577.7	867.4	871.1	969.3	1181.8	1347.1	1334.7	1241.4	1245.2	1240.2
77.5°	8780.9	2623.3	730.7	755.6	825.1	1038.9	1199.2	1191.7	1089.8	1071.2	1067.5
80°	4074.8	1338.4	595.2	606.4	678.5	868.6	1022.7	1012.8	930.8	907.2	893.5
82.5°	1395.5	636.3	447.4	454.8	525.7	699.6	887.3	881.1	812.7	766.7	738.2
85°	498.3	316.9	313.2	305.7	375.3	550.5	773.0	739.4	638.7	544.3	541.8
87.5°	161.5	135.5	161.5	160.3	218.7	372.8	561.7	478.4	463.5	385.2	377.8
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)