

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: P383513

Luminaire Tested: **GLEON-SA8A-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383513  
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-SA8A-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36247.5 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

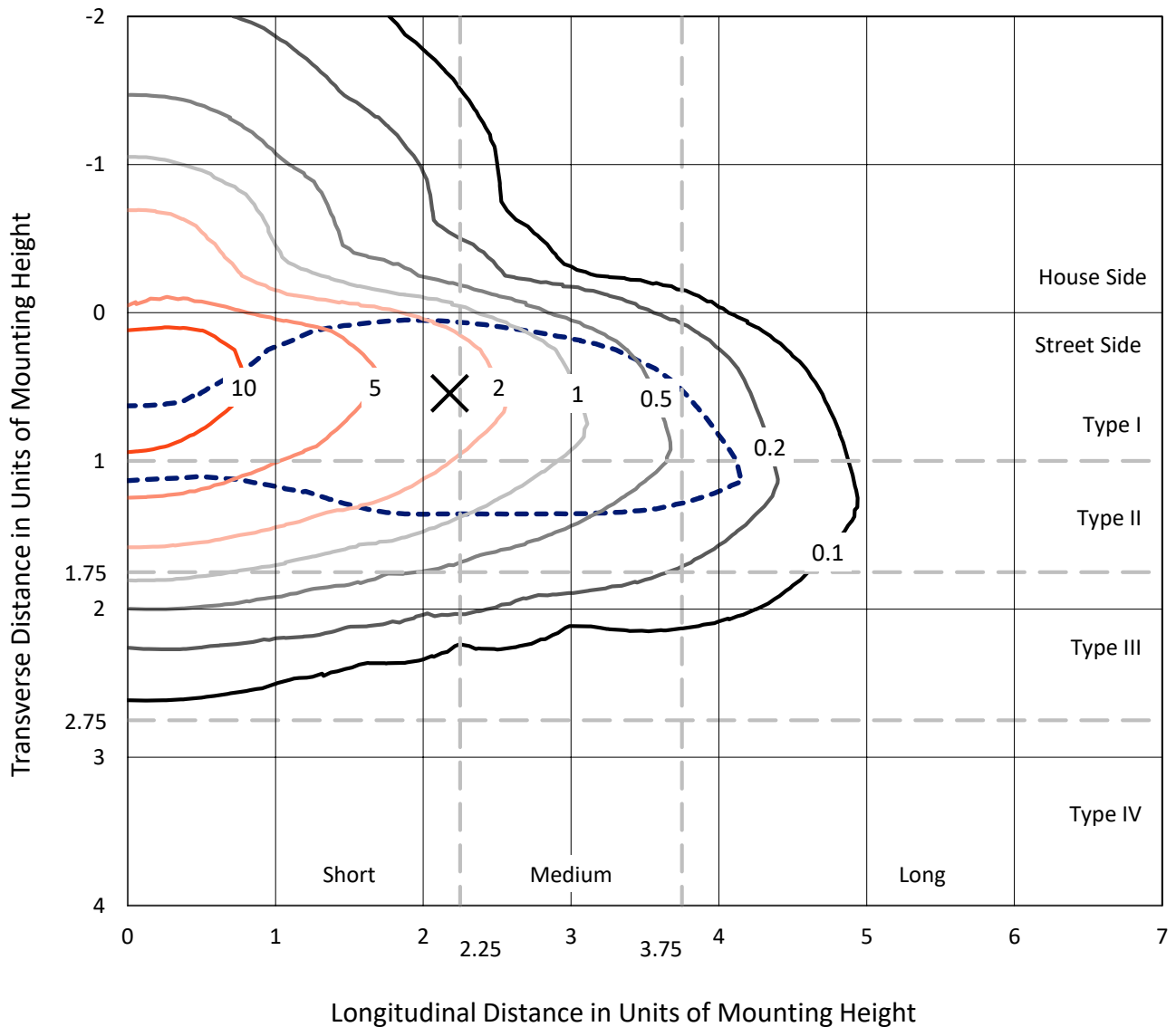
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

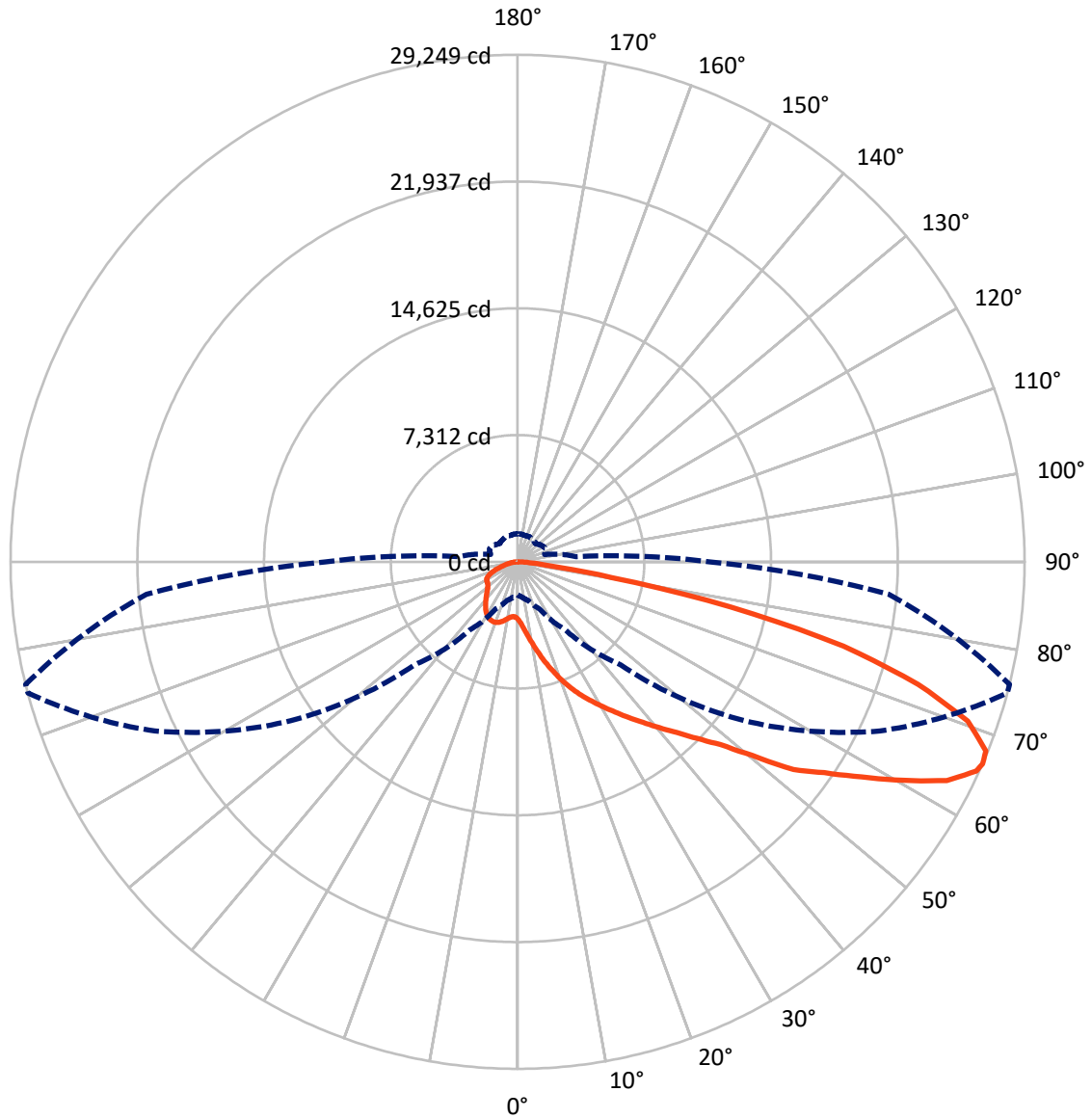
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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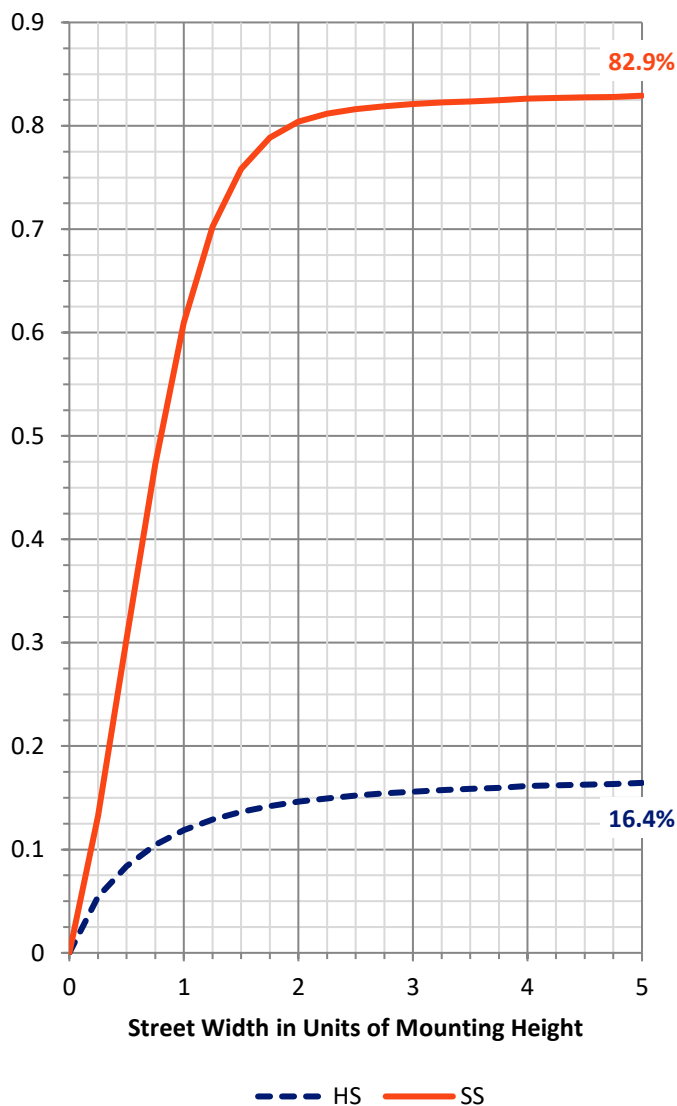
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6099.2	0.0	6099.2
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	30148.3	0.0	30148.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	36247.5	0.0	36247.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.3	1.1
10°-20°	1580.7	4.4
20°-30°	3071.8	8.5
30°-40°	5013.8	13.8
40°-50°	6850.0	18.9
50°-60°	7978.9	22.0
60°-70°	7153.2	19.7
70°-80°	3615.0	10.0
80°-90°	583.8	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°	36247.5	100.0
0°-180°	36247.5	100.0

**Coefficient of Utilization**



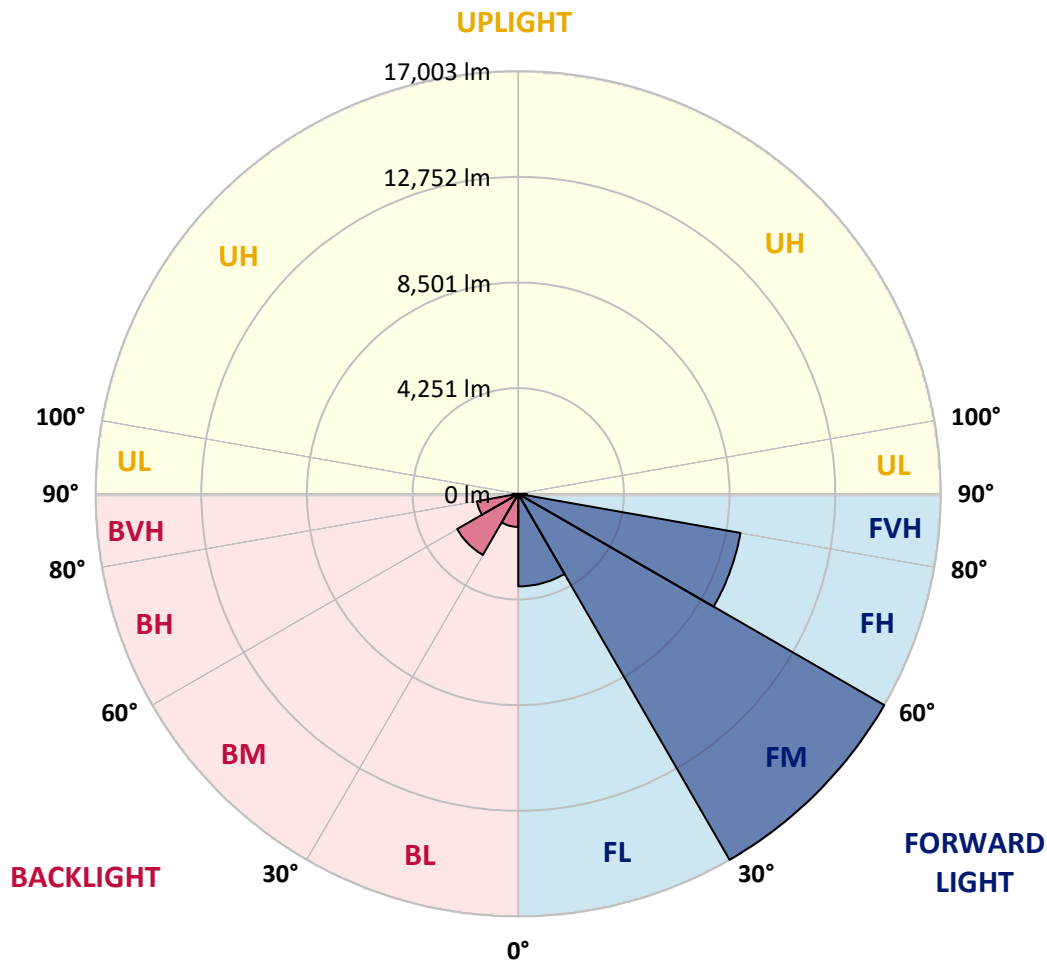
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3722.5	10.3			
FM (30°-60°)	17002.6	46.9			
FH (60°-80°)	9078.4	25.0			G4/12000
FVH (80°-90°)	344.7	1.0			G3/500
BL (0°-30°)	1330.3	3.7	B3/2500		
BM (30°-60°)	2840.2	7.8	B3/5000		
BH (60°-80°)	1689.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	239.0	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°	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3
2.5°	4394.3	4327.9	4321.7	4224.5	4202.4	4016.6	3880.0	3737.2	3574.8	3542.8	3414.8
5°	5644.6	5638.5	5553.5	5394.8	5270.5	4953.0	4639.2	4307.0	3942.7	3883.6	3595.7
7.5°	6769.3	6759.5	6694.3	6523.2	6343.6	5953.4	5505.5	4996.1	4405.4	4318.0	3840.6
10°	7623.3	7619.6	7597.5	7471.9	7319.4	6945.2	6450.6	5755.4	4943.2	4823.8	4147.0
12.5°	8282.9	8290.3	8305.0	8260.8	8188.1	7869.4	7362.5	6560.1	5516.6	5398.5	4487.8
15°	8729.6	8751.8	8828.1	8890.8	8929.0	8733.3	8242.3	7383.4	6158.9	6017.4	4865.7
17.5°	8954.8	8979.4	9111.1	9300.6	9475.3	9455.7	9065.5	8168.5	6775.4	6638.9	5271.7
20°	9149.2	9167.6	9315.4	9543.0	9851.9	9988.4	9769.4	8924.0	7451.1	7288.6	5702.4
22.5°	9712.8	9736.2	9780.5	9909.7	10182.9	10433.9	10328.1	9639.0	8070.0	7918.6	6111.0
25°	10800.6	10829.0	10732.9	10623.5	10675.2	10849.8	10869.6	10291.2	8697.6	8526.5	6550.3
27.5°	12111.1	12151.8	11988.1	11706.3	11460.2	11392.5	11369.2	10825.2	9296.8	9098.8	6984.7
30°	13394.6	13464.8	13251.9	12886.5	12434.9	12117.3	11882.3	11348.2	9887.5	9698.1	7394.4
32.5°	14648.6	14620.3	14311.5	13954.6	13425.5	13028.0	12459.4	11909.4	10552.1	10334.2	7801.8
35°	15507.6	15517.3	15230.6	14807.3	14302.8	13997.6	13232.3	12514.8	11230.1	11029.5	8264.4
37.5°	16238.5	16193.0	15868.1	15473.1	15038.7	14908.2	14136.7	13181.8	11964.7	11745.7	8756.6
40°	16482.2	16429.2	16216.4	15932.1	15583.9	15572.8	15134.7	13937.3	12795.4	12578.8	9311.7
42.5°	16334.5	16266.8	16179.4	16101.9	15994.9	16044.0	16072.4	14823.3	13708.5	13466.0	9954.1
45°	15789.4	15687.2	15748.7	15917.4	16149.9	16428.0	16919.0	15804.1	14731.0	14528.0	10708.3
47.5°	14951.3	14859.0	15051.0	15411.5	16044.0	16747.9	17720.1	16887.0	15951.7	15750.0	11782.6
50°	13772.5	13799.5	14073.9	14729.8	15686.0	16895.6	18707.0	18320.6	17726.2	17538.0	13248.2
52.5°	11838.0	11843.0	12615.7	13692.4	15051.0	16819.3	19254.6	20152.9	20149.2	19921.5	14643.6
55°	10041.3	10150.9	10762.4	12193.6	14022.2	16514.1	19637.3	21043.8	21740.4	21473.3	15944.4
57.5°	8286.6	8350.6	8930.2	10367.5	12554.2	15700.8	20029.9	22113.2	23573.8	23405.3	17561.3
60°	6290.6	6389.1	6988.4	8316.1	10676.4	14257.2	20066.7	23229.3	25765.5	25595.7	19366.6
62.5°	4083.0	4252.8	4814.0	6058.0	8404.7	12181.3	19210.3	23959.0	27842.7	27782.4	20968.8
65°	2346.7	2474.7	2864.8	3824.6	5798.4	9575.0	17173.7	23678.4	29121.2	29086.7	21568.0
66°	1917.2	1997.2	2296.3	2989.1	4784.4	8408.4	15989.9	23086.5	29248.0	29249.2	21499.1
67.5°	1533.2	1569.0	1703.1	2140.0	3530.5	6664.8	13874.6	21780.9	29090.5	29133.5	21054.9
70°	1268.7	1287.2	1329.0	1434.9	1927.1	4019.0	9848.1	18388.3	27509.2	27542.4	19321.0
72.5°	1138.3	1149.3	1165.4	1180.1	1359.8	2245.8	6015.0	14710.2	24119.0	24162.1	16679.0
75°	1031.2	1037.4	1034.9	1036.2	1140.8	1431.1	3108.4	10982.8	19501.9	19415.8	12776.9
77.5°	905.7	911.9	899.5	902.0	1009.1	1100.2	1546.8	7688.5	13160.8	12553.0	7198.8
80°	765.5	770.3	765.5	774.0	878.6	830.7	899.5	4325.5	5819.3	5504.3	2559.6
82.5°	578.4	599.3	614.1	648.5	723.5	590.7	601.8	1684.6	1772.0	1687.1	785.1
85°	253.5	308.9	462.7	496.0	543.9	354.4	395.0	686.6	721.1	698.9	285.5
87.5°	66.4	72.6	228.9	287.9	301.4	159.9	205.5	312.5	329.8	312.5	94.7
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°	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3	3310.3
2.5°	3347.1	3286.9	3178.5	3082.6	3009.9	2960.7	2911.6	2886.9	2872.1	2857.3	2859.9
5°	3454.2	3332.3	3146.6	3014.9	2941.1	2894.3	2869.6	2859.9	2853.7	2838.9	2838.9
7.5°	3615.4	3443.1	3187.2	3051.7	2994.0	2958.2	2943.5	2938.6	2931.2	2914.0	2916.4
10°	3818.4	3577.2	3272.1	3140.4	3087.5	3048.1	3027.2	3019.8	3006.3	2986.5	2989.1
12.5°	4057.2	3743.3	3384.0	3246.3	3182.3	3129.3	3094.9	3073.9	3050.5	3024.7	3025.9
15°	4318.0	3924.2	3504.7	3341.0	3253.6	3179.7	3124.4	3088.7	3051.7	3019.8	3018.6
17.5°	4582.7	4099.0	3596.9	3392.7	3274.5	3177.3	3102.2	3046.9	3001.4	2961.9	2958.2
20°	4868.1	4256.5	3648.6	3387.8	3235.2	3119.5	3019.8	2950.9	2900.5	2861.1	2854.9
22.5°	5158.5	4404.2	3657.3	3337.3	3147.8	3006.3	2901.7	2825.4	2773.7	2733.1	2718.3
25°	5424.3	4518.7	3621.6	3240.1	3025.9	2873.4	2771.3	2693.7	2651.8	2603.9	2589.1
27.5°	5666.7	4598.6	3550.1	3115.7	2889.4	2739.2	2643.3	2576.8	2531.3	2494.3	2482.0
30°	5884.6	4641.7	3433.3	2968.1	2749.1	2612.5	2531.3	2485.7	2446.3	2399.6	2391.0
32.5°	6091.3	4641.7	3283.1	2806.9	2610.0	2500.5	2452.5	2424.2	2379.9	2334.4	2322.1
35°	6298.0	4613.4	3106.0	2638.3	2482.0	2420.5	2418.0	2384.9	2317.1	2255.6	2239.6
37.5°	6515.8	4555.5	2906.6	2480.8	2377.4	2384.9	2405.7	2331.9	2235.9	2148.5	2125.1
40°	6761.9	4475.5	2699.8	2344.2	2290.1	2368.8	2372.6	2255.6	2068.6	1988.6	1967.7
42.5°	7051.1	4395.6	2507.9	2223.6	2221.2	2320.9	2309.8	2090.8	1978.7	1938.2	1927.1
45°	7431.3	4350.0	2325.8	2109.2	2167.1	2243.4	2202.7	1999.7	1952.9	1929.5	1919.6
47.5°	8030.7	4373.4	2158.4	2018.1	2112.8	2165.8	2003.4	1962.8	1929.5	1901.2	1891.4
50°	8781.3	4359.9	2023.0	1955.3	2051.4	2084.6	1913.5	1914.8	1897.6	1865.5	1850.8
52.5°	9346.1	4254.0	1935.7	1919.6	1997.2	1940.6	1856.9	1868.0	1859.4	1812.6	1796.6
55°	9891.3	4163.0	1891.4	1906.1	1957.8	1760.9	1790.4	1817.5	1808.9	1763.4	1756.0
57.5°	10569.2	4145.8	1864.3	1909.9	1924.6	1671.1	1726.4	1762.2	1756.0	1736.3	1732.6
60°	11399.9	4150.7	1839.7	1916.0	1887.7	1604.7	1666.2	1711.7	1715.4	1711.7	1709.2
62.5°	11856.5	4016.6	1778.1	1898.8	1822.5	1546.8	1603.4	1669.9	1671.1	1678.5	1677.3
65°	11468.8	3615.4	1663.7	1838.5	1712.9	1498.9	1549.3	1621.9	1603.4	1636.6	1636.6
66°	11092.3	3384.0	1607.1	1799.1	1666.2	1480.3	1532.0	1597.2	1573.8	1619.4	1619.4
67.5°	10323.2	2994.0	1505.0	1715.4	1599.7	1454.5	1512.4	1556.6	1524.7	1592.4	1587.5
70°	8917.9	2315.9	1299.5	1525.9	1490.2	1416.4	1485.3	1475.5	1428.7	1532.0	1512.4
72.5°	7518.7	1759.7	1043.5	1277.3	1324.1	1368.4	1447.2	1372.1	1313.0	1385.6	1342.5
75°	5834.1	1322.9	824.5	993.0	1118.6	1293.4	1401.6	1252.7	1167.8	1160.4	1137.0
77.5°	3153.9	908.2	653.4	758.0	888.5	1199.8	1370.9	1124.8	996.8	967.2	948.8
80°	1249.0	590.7	475.0	574.7	621.4	1064.5	1297.0	975.8	822.0	792.5	764.1
82.5°	515.6	349.5	306.4	385.2	404.9	910.6	1164.2	799.8	634.9	878.6	932.8
85°	221.5	192.0	182.1	199.4	228.9	638.7	926.6	610.3	685.4	611.6	486.1
87.5°	66.4	81.2	77.5	76.3	83.7	152.6	493.4	339.6	503.3	190.8	142.7
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)