

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: P318861

Luminaire Tested: **GLEON-SA7D-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40587 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

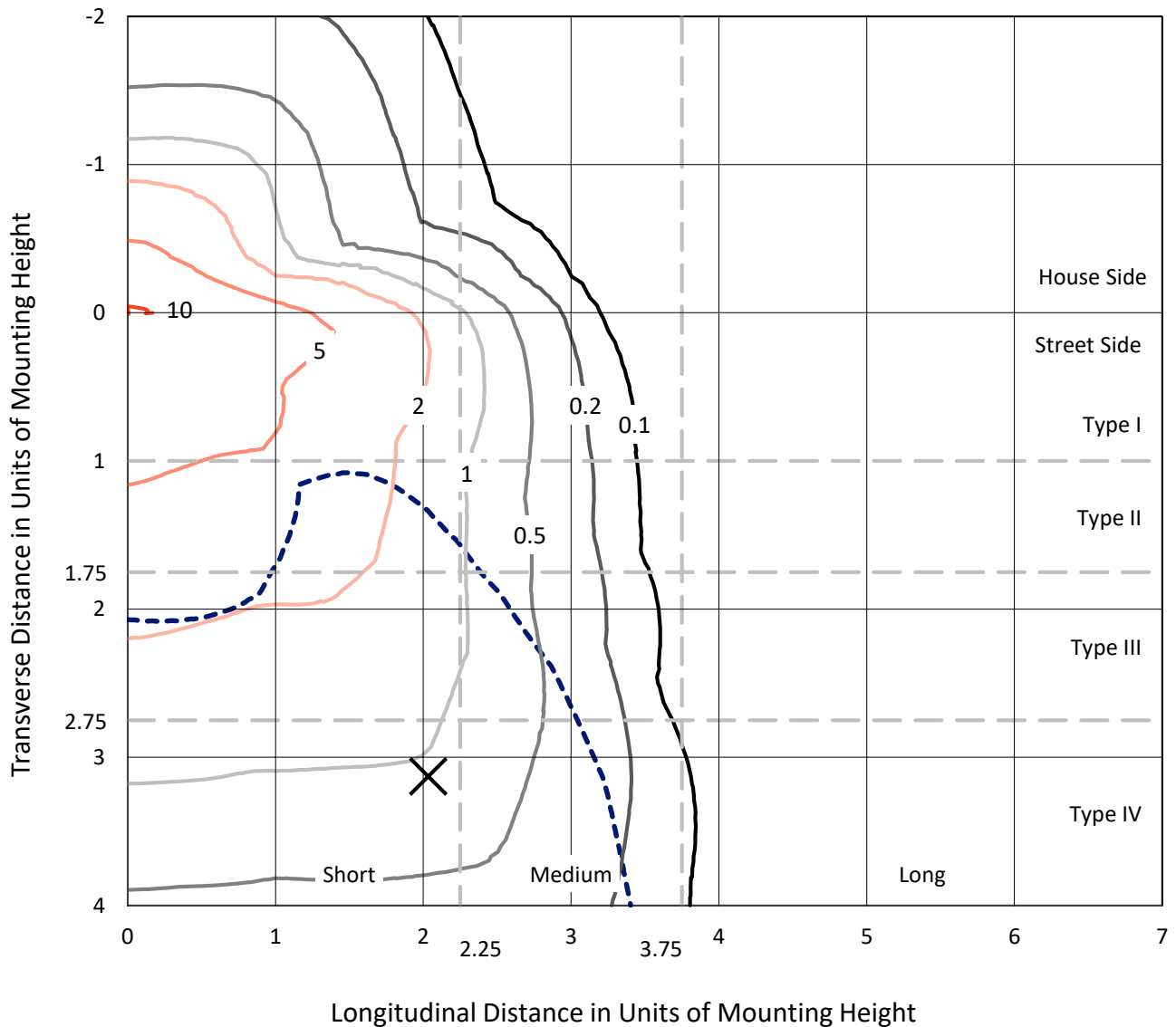
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

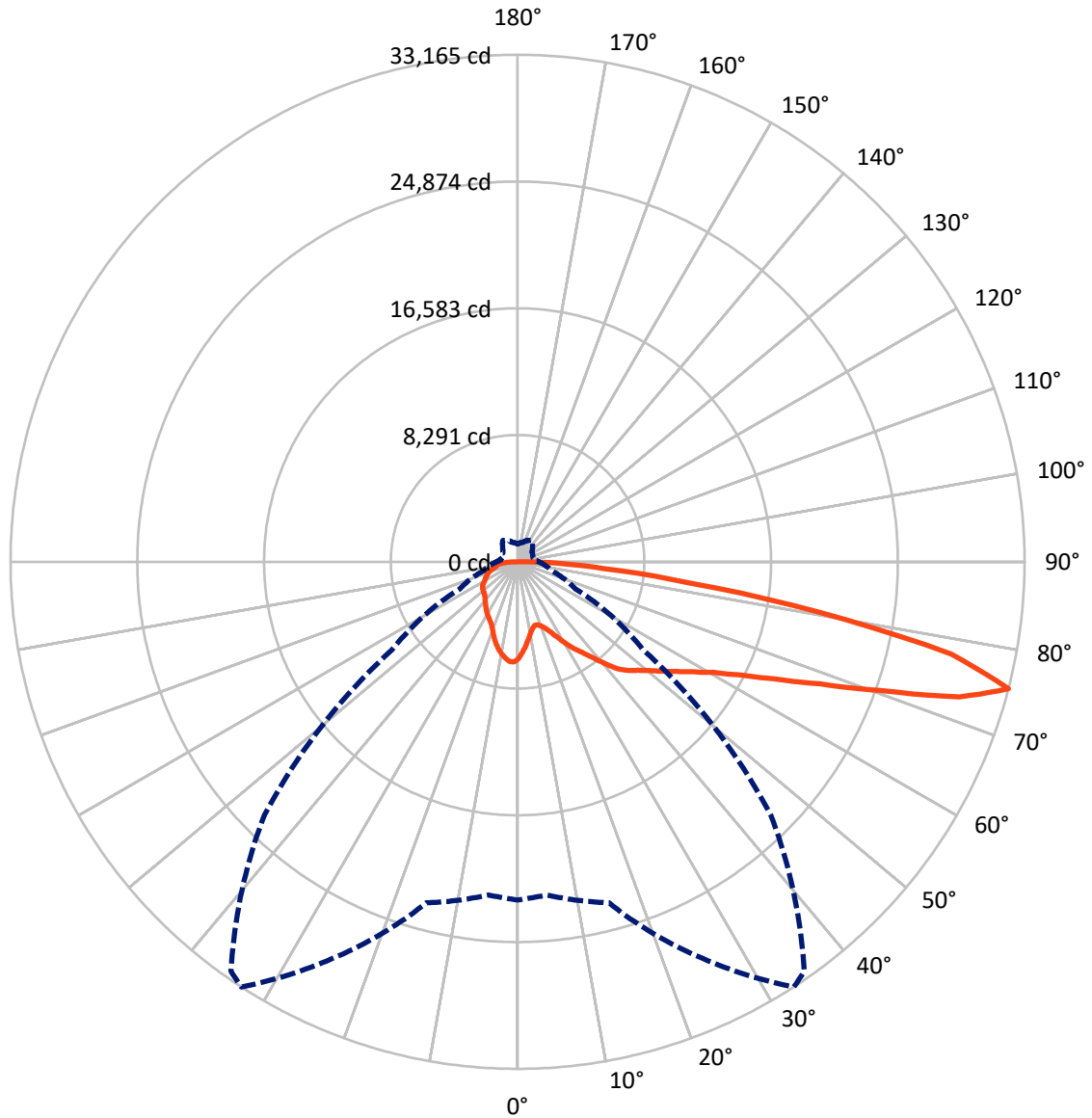
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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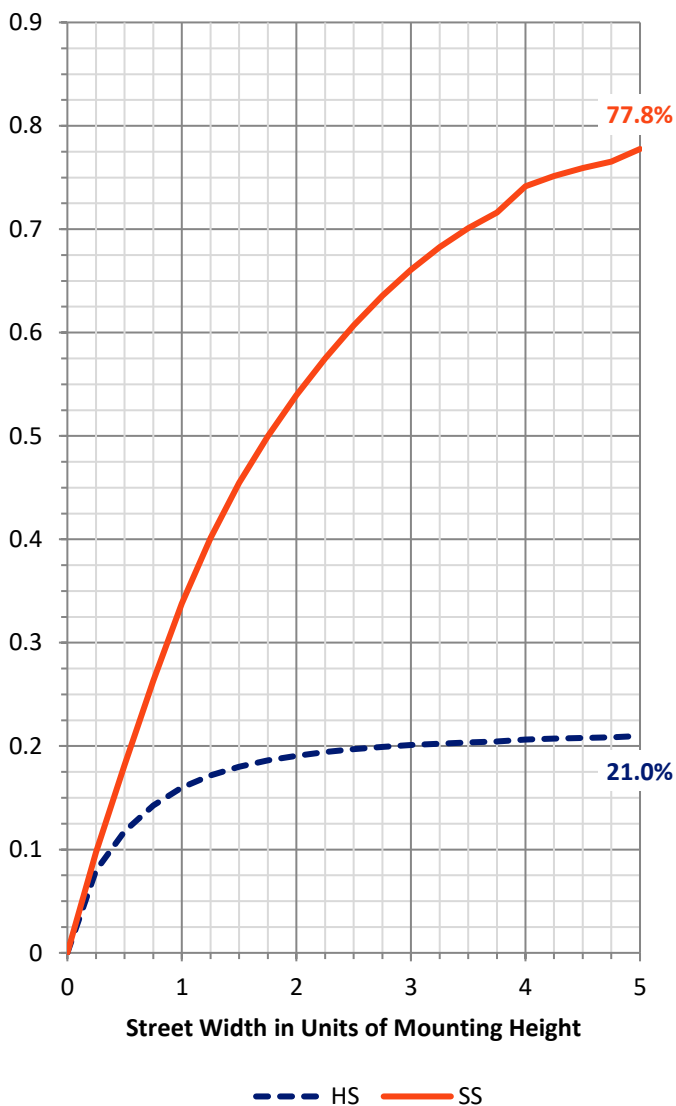
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8715.1	0.0	8715.1
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	31871.9	0.0	31871.9
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	40587.0	0.0	40587.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.7	1.4
10°-20°	1553.9	3.8
20°-30°	2537.8	6.3
30°-40°	3779.3	9.3
40°-50°	5420.6	13.4
50°-60°	7441.6	18.3
60°-70°	9316.6	23.0
70°-80°	8428.3	20.8
80°-90°	1535.3	3.8
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°	40587.0	100.0
0°-180°	40587.0	100.0

**Coefficient of Utilization**



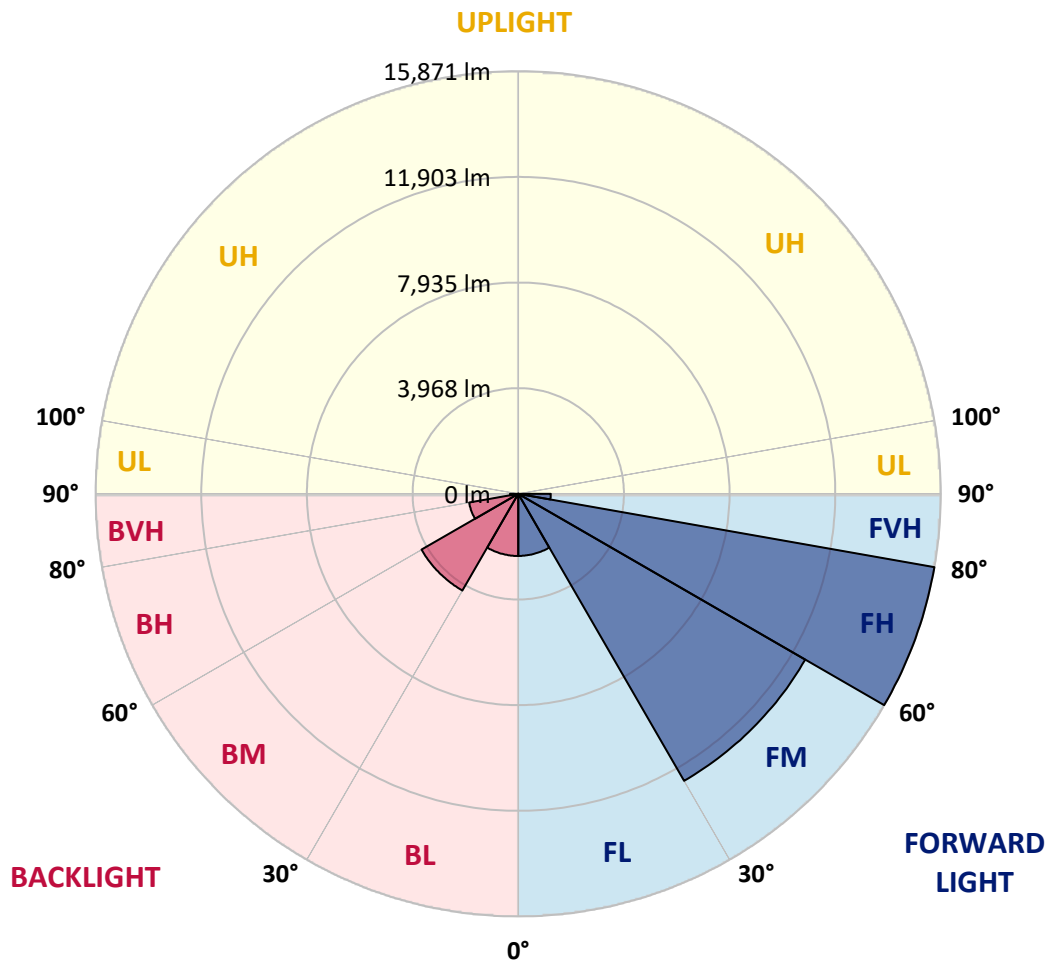
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 CATALOG NUMBER: GLEON-SA7D-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.1	5.7			
FM (30°-60°)	12447.2	30.7			
FH (60°-80°)	15870.9	39.1			G5
FVH (80°-90°)	1222.7	3.0			G5
BL (0°-30°)	2334.3	5.8	B3/2500		
BM (30°-60°)	4194.3	10.3	B3/5000		
BH (60°-80°)	1873.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	312.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0
2.5°	5891.1	5868.7	5910.8	5916.4	5952.8	5966.8	6017.3	6095.8	6160.3	6234.6	6301.9
5°	5357.0	5341.6	5400.4	5442.5	5522.4	5556.1	5675.2	5842.1	5990.7	6158.9	6311.7
7.5°	4849.5	4841.0	4906.9	5002.3	5094.8	5141.1	5347.2	5589.7	5837.9	6109.8	6344.0
10°	4421.9	4419.1	4482.1	4576.1	4712.1	4763.9	5030.3	5350.0	5697.7	6072.0	6398.7
12.5°	4182.1	4191.9	4221.4	4299.9	4426.1	4477.9	4773.8	5149.5	5579.9	6059.4	6478.6
15°	4241.0	4256.4	4206.0	4203.1	4292.9	4333.5	4611.1	5006.5	5495.8	6080.4	6594.9
17.5°	4492.0	4494.8	4361.6	4277.5	4332.1	4353.2	4560.7	4925.2	5446.7	6128.1	6740.7
20°	4845.3	4838.2	4602.7	4462.5	4492.0	4497.6	4632.2	4926.6	5442.5	6210.8	6930.0
22.5°	5313.5	5261.6	4944.8	4754.1	4747.1	4738.7	4815.8	5030.3	5504.2	6345.4	7155.7
25°	5924.8	5875.7	5439.7	5178.9	5122.8	5101.8	5113.0	5251.8	5626.2	6489.8	7408.1
27.5°	6604.7	6519.2	6098.6	5729.9	5613.5	5584.1	5516.8	5564.5	5759.3	6628.6	7708.1
30°	7173.9	7127.7	6760.4	6322.9	6185.6	6143.5	5966.8	5915.0	5951.4	6817.8	8086.6
32.5°	7492.2	7461.4	7238.4	6885.1	6757.6	6698.7	6449.1	6345.4	6259.9	7116.5	8599.8
35°	7877.7	7858.1	7723.5	7467.0	7277.7	7216.0	7022.5	6914.6	6694.5	7527.2	9262.9
37.5°	8368.4	8347.4	8350.2	8142.7	7917.0	7859.5	7731.9	7618.4	7258.1	8067.0	9983.5
40°	8923.6	8883.0	8867.5	8857.7	8714.7	8682.5	8615.2	8461.0	7964.7	8711.9	10694.3
42.5°	9759.2	9614.8	9306.4	9422.7	9564.3	9547.5	9602.2	9380.7	8749.8	9474.6	11388.3
45°	10565.3	10328.4	9795.7	9820.9	10130.7	10224.7	10634.0	10477.0	9600.8	10310.2	12106.1
47.5°	10932.7	10753.2	10300.4	10301.8	10608.8	10803.7	11701.0	11588.8	10495.2	11259.3	12982.4
50°	11343.4	11164.0	10757.4	10910.2	11178.0	11385.5	12731.4	12673.9	11346.3	12298.2	14032.5
52.5°	11792.1	11487.9	11229.9	11503.3	11879.0	12120.1	13763.3	13606.3	12127.2	13344.1	15239.6
55°	11797.7	11715.0	11911.3	12111.7	12673.9	12969.7	14844.2	14429.2	12763.7	14371.7	16222.4
57.5°	12469.2	12334.7	12751.0	12843.6	13578.2	13911.9	15919.5	15145.6	13411.4	15159.6	16752.3
60°	13358.1	13243.1	13583.8	13827.8	14697.0	15142.8	17067.7	15881.7	13920.3	15754.1	16727.1
62.5°	14893.3	14762.9	14758.7	15100.8	16271.4	16790.2	18356.2	16603.7	14122.2	15871.9	16013.5
65°	17140.7	16933.2	16542.0	16704.6	18445.9	18963.2	19796.0	17126.6	13855.8	15241.0	14175.5
67.5°	19327.7	19320.7	18839.9	19173.5	21317.2	21732.1	21436.3	17178.5	13024.4	13044.1	10914.4
70°	21507.8	21535.9	21454.6	22615.4	25196.4	25628.3	23183.2	16481.7	11155.6	9419.9	6538.9
72.5°	23235.1	23228.1	23637.4	26630.7	30231.0	30134.2	24655.3	14370.3	8009.5	5085.0	3125.0
75°	22116.3	21872.3	23092.1	28618.7	33165.3	32692.9	23403.3	10024.2	4156.9	2314.7	1682.4
77.5°	14425.0	14656.3	16446.7	23641.6	29009.8	28435.0	17170.1	4677.0	1958.6	1518.3	1219.7
80°	5223.8	5467.7	7701.1	13391.7	19986.7	19892.7	8455.4	1922.1	1324.9	1146.8	888.9
82.5°	1797.3	1887.1	3038.1	5947.2	11284.6	11705.2	3181.1	1092.1	963.2	813.2	608.5
85°	705.2	807.5	1389.4	2861.4	5692.1	5734.1	1288.4	653.3	670.1	532.8	333.7
87.5°	267.8	325.3	664.5	1329.1	2599.3	2387.6	461.3	311.2	381.3	316.8	158.4
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°	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0
2.5°	6353.8	6383.2	6444.9	6487.0	6531.8	6544.5	6550.1	6561.3	6572.5	6568.3	6569.7
5°	6393.0	6450.5	6550.1	6592.1	6611.8	6589.3	6545.9	6510.8	6485.6	6471.6	6467.4
7.5°	6457.5	6538.9	6645.4	6638.4	6593.5	6494.0	6381.8	6297.7	6227.6	6202.4	6188.4
10°	6543.1	6638.4	6712.7	6632.8	6502.4	6330.0	6161.7	6031.3	5926.2	5885.5	5878.5
12.5°	6652.4	6749.1	6763.2	6593.5	6377.6	6142.1	5913.6	5741.1	5584.1	5533.6	5522.4
15°	6794.0	6885.1	6798.2	6524.8	6223.4	5906.6	5610.7	5376.6	5211.2	5149.5	5127.1
17.5°	6942.6	7029.5	6805.2	6411.3	6021.5	5627.6	5256.0	5016.3	4827.0	4755.5	4747.1
20°	7120.7	7159.9	6775.8	6248.6	5743.9	5265.9	4874.7	4649.0	4548.0	4497.6	4492.0
22.5°	7340.8	7298.7	6708.5	6028.5	5392.0	4848.1	4529.8	4424.7	4399.4	4388.2	4392.4
25°	7573.5	7444.5	6609.0	5741.1	4947.6	4430.3	4277.5	4306.9	4340.5	4336.3	4336.3
27.5°	7830.1	7593.1	6456.1	5359.8	4455.5	4088.2	4106.4	4214.4	4264.8	4263.4	4262.0
30°	8159.5	7761.4	6261.3	4901.3	3995.7	3847.0	3957.8	4089.6	4158.3	4155.5	4156.9
32.5°	8564.7	7946.4	5996.3	4389.6	3663.4	3669.0	3796.6	3927.0	4006.9	3999.9	4001.3
35°	9038.6	8153.9	5637.4	3884.9	3443.3	3527.4	3628.3	3719.5	3795.2	3785.4	3775.5
37.5°	9554.5	8357.2	5160.7	3433.5	3263.8	3395.6	3479.7	3495.1	3530.2	3505.0	3486.7
40°	10045.2	8512.8	4546.6	3063.3	3083.0	3283.4	3338.1	3276.4	3213.3	3204.9	3179.7
42.5°	10472.8	8564.7	3925.6	2767.5	2892.3	3165.7	3199.3	3070.3	2956.8	2903.5	2881.1
45°	10924.3	8582.9	3346.5	2519.4	2708.6	3060.5	3097.0	2924.5	2764.7	2649.7	2611.9
47.5°	11514.5	8714.7	2896.5	2335.7	2568.4	2990.4	3042.3	2808.2	2600.7	2436.6	2401.6
50°	12287.0	8975.5	2530.6	2195.5	2477.3	2944.2	3003.0	2694.6	2466.1	2268.4	2233.4
52.5°	13145.0	9215.2	2234.8	2081.9	2389.0	2862.9	2952.6	2613.3	2339.9	2112.8	2074.9
55°	13745.0	9031.6	1996.4	1964.2	2274.0	2746.5	2882.5	2544.6	2159.1	1961.4	1927.7
57.5°	13860.0	8403.5	1815.6	1842.2	2135.2	2600.7	2774.5	2391.8	2060.9	1895.5	1860.4
60°	13546.0	7528.7	1681.0	1730.0	1986.6	2417.0	2572.6	2283.8	1967.0	1825.4	1795.9
62.5°	12756.6	6632.8	1581.4	1629.1	1847.8	2230.6	2446.5	2170.3	1871.6	1745.5	1716.0
65°	11162.6	5568.7	1486.1	1539.4	1718.8	2069.3	2332.9	2065.1	1777.7	1681.0	1652.9
67.5°	8425.9	4170.9	1396.4	1444.0	1603.9	1929.1	2209.5	1961.4	1686.6	1624.9	1591.3
70°	4961.6	2611.9	1294.0	1344.5	1483.3	1783.3	2077.7	1847.8	1573.0	1545.0	1501.5
72.5°	2309.1	1571.6	1177.7	1226.7	1331.9	1588.4	1908.1	1699.2	1438.4	1376.7	1317.9
75°	1378.1	1149.6	1040.3	1083.7	1158.0	1381.0	1695.0	1547.8	1310.9	1229.5	1167.9
77.5°	1030.5	879.0	888.9	935.1	995.4	1208.5	1501.5	1428.6	1212.7	1149.6	1107.6
80°	741.6	667.3	724.8	775.3	838.4	1099.2	1438.4	1320.7	1096.4	1012.2	973.0
82.5°	494.9	479.5	545.4	597.2	658.9	961.8	1351.5	1156.6	936.5	830.0	743.1
85°	273.4	288.8	367.3	389.8	443.0	677.2	1107.6	929.5	705.2	567.8	542.6
87.5°	113.6	133.2	197.7	190.7	235.5	403.8	729.0	560.8	448.6	335.1	260.8
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)