

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: P322352

Luminaire Tested: **GLEON-SA8A-827-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20008 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

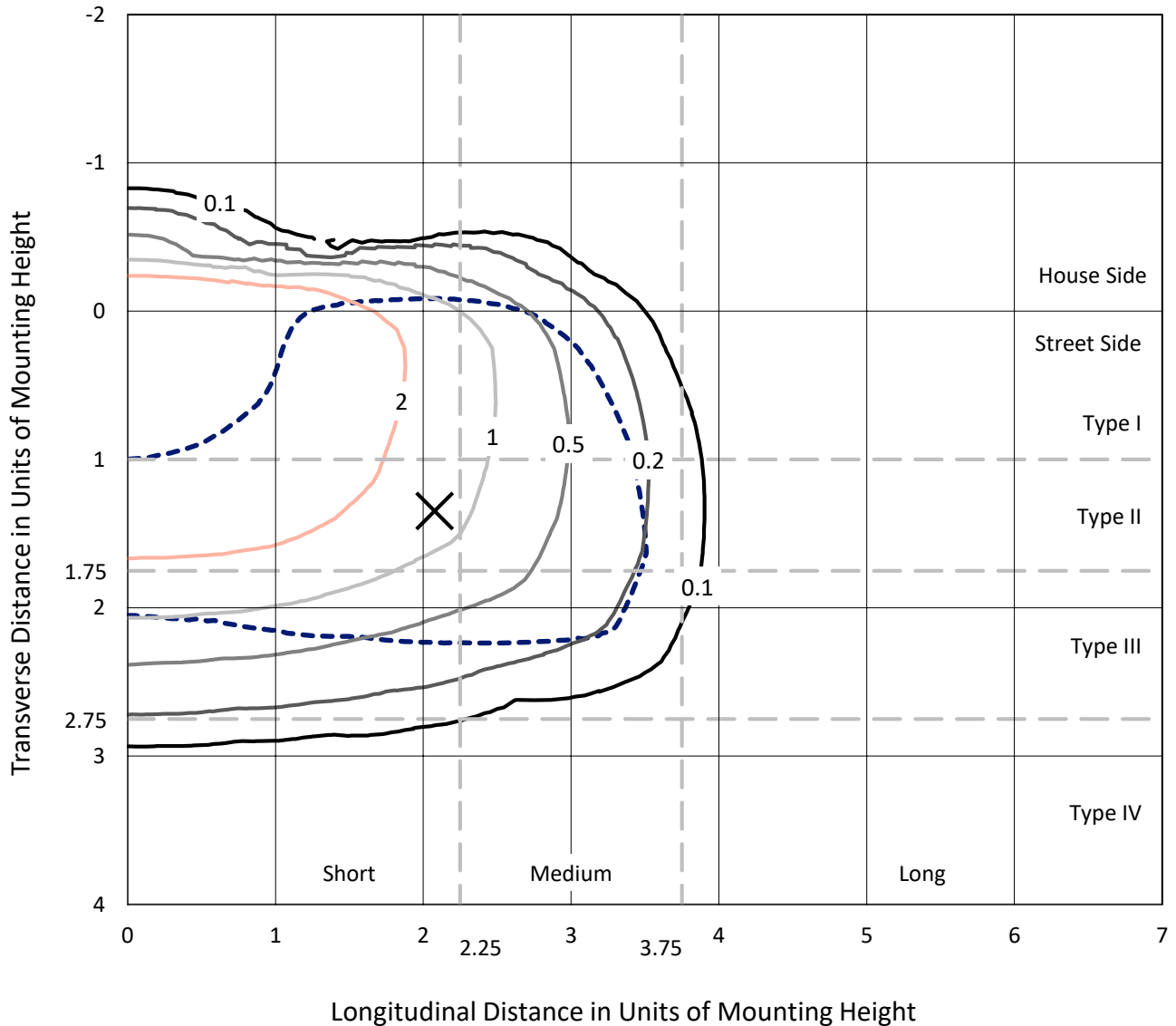
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

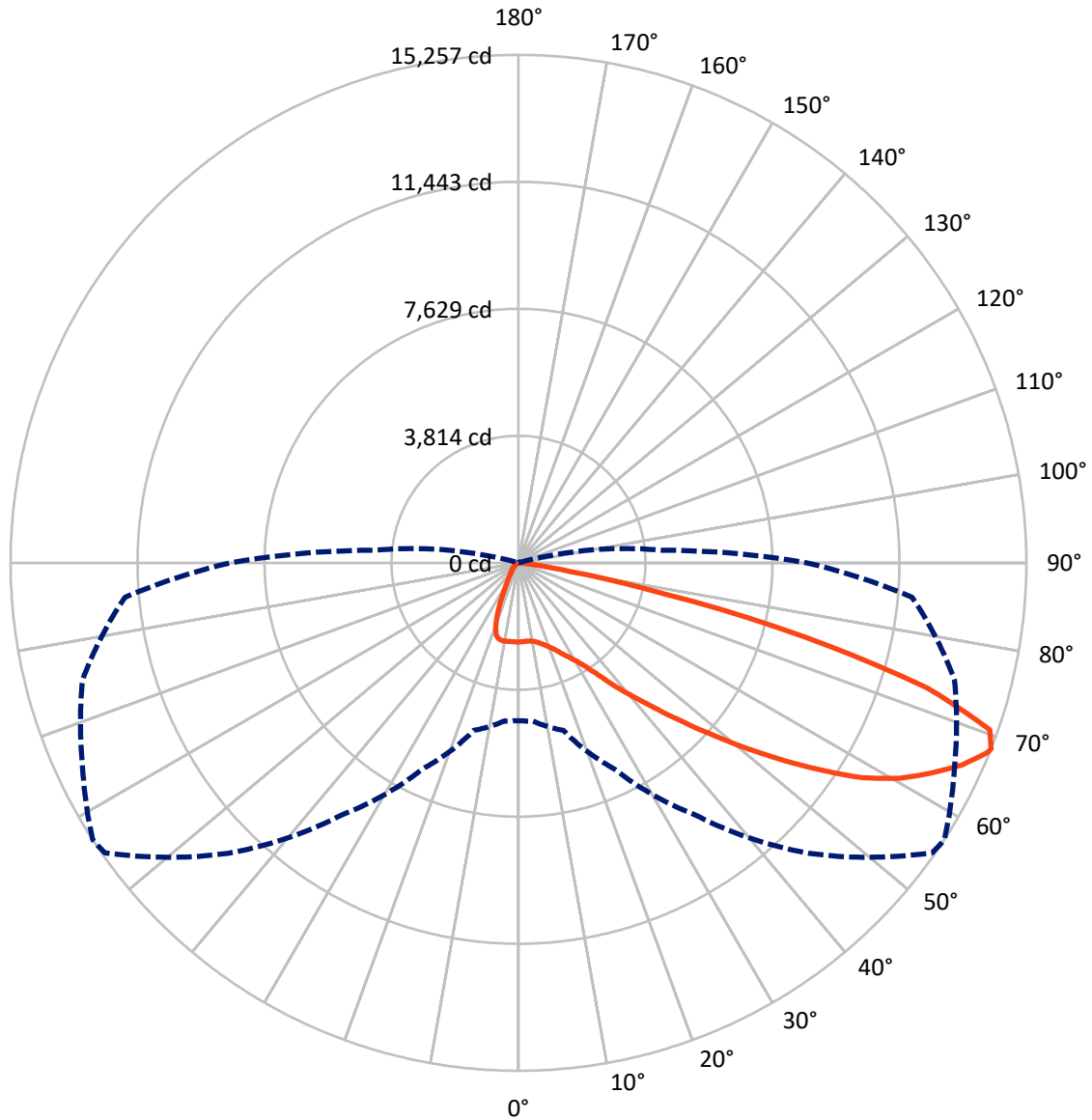
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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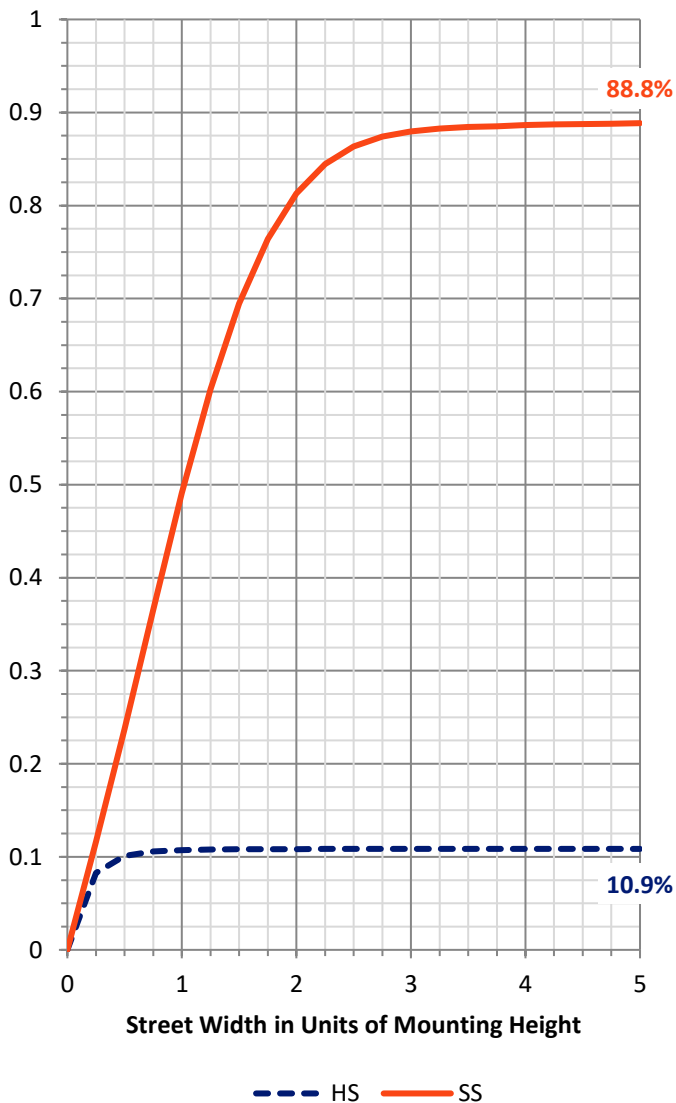
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2194.0	0.0	2194.0
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	17814.0	0.0	17814.0
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	20008.0	0.0	20008.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.5	1.1
10°-20°	616.6	3.1
20°-30°	1063.6	5.3
30°-40°	1835.8	9.2
40°-50°	3140.1	15.7
50°-60°	5023.8	25.1
60°-70°	5804.5	29.0
70°-80°	2218.0	11.1
80°-90°	83.1	0.4
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°	20008.0	100.0
0°-180°	20008.0	100.0

**Coefficient of Utilization**

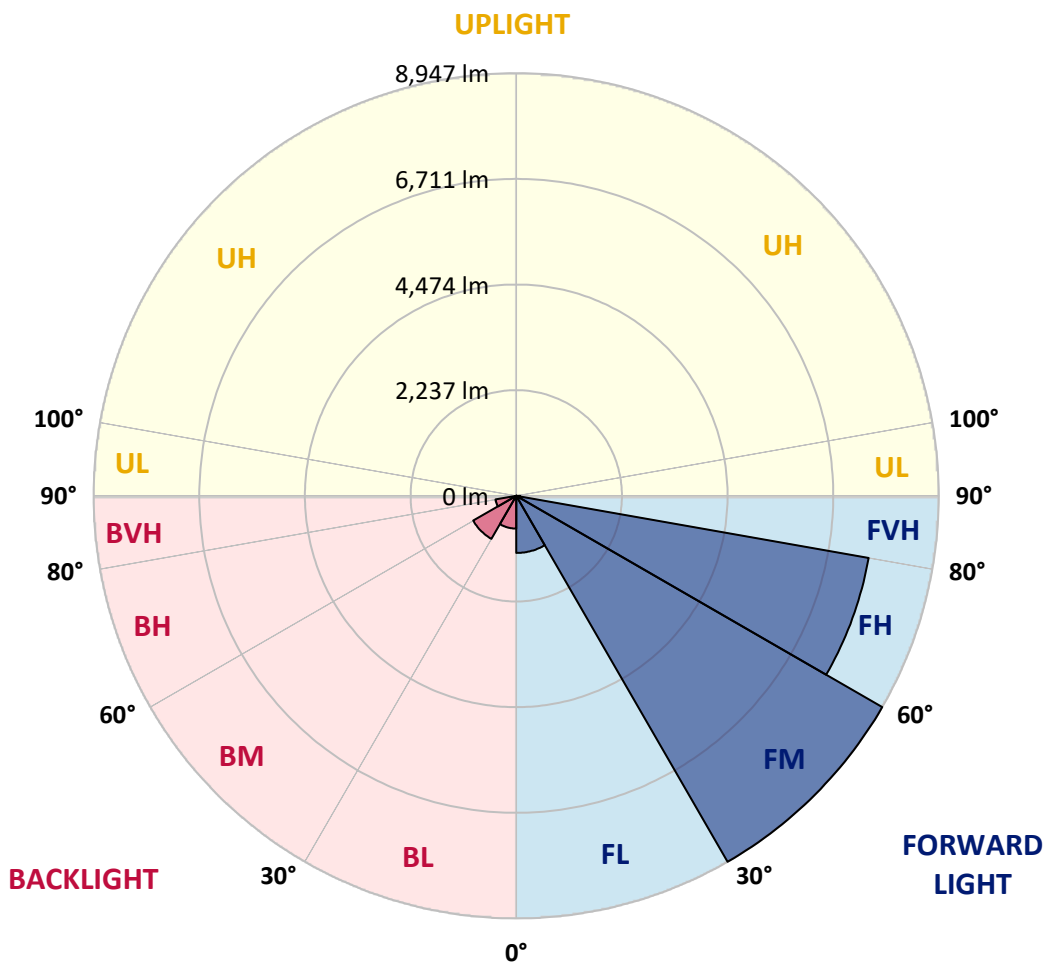


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.3	6.0			
FM (30°-60°)	8947.4	44.7			
FH (60°-80°)	7575.7	37.9			G4/12000
FVH (80°-90°)	81.6	0.4			G1/100
BL (0°-30°)	693.4	3.5	B2/1000		
BM (30°-60°)	1052.3	5.3	B2/2500		
BH (60°-80°)	446.8	2.2	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5
2.5°	2321.7	2332.1	2339.6	2344.4	2350.0	2362.3	2366.1	2371.8	2374.6	2374.6	2381.3
5°	2229.9	2241.2	2257.3	2270.6	2297.1	2331.1	2355.7	2365.2	2382.2	2397.3	2405.9
7.5°	2144.7	2158.0	2176.9	2208.1	2253.5	2308.4	2359.5	2372.7	2405.9	2438.0	2454.1
10°	2089.9	2100.3	2124.9	2169.3	2228.9	2305.6	2377.5	2393.6	2450.3	2504.3	2534.5
12.5°	2071.0	2080.4	2106.0	2156.1	2229.9	2319.8	2419.1	2442.8	2526.0	2604.5	2647.1
15°	2098.4	2100.3	2127.7	2175.0	2247.9	2354.8	2488.2	2516.6	2621.6	2723.7	2776.7
17.5°	2204.3	2195.8	2210.0	2230.8	2288.5	2401.1	2561.0	2603.6	2743.6	2863.8	2913.9
20°	2469.2	2469.2	2437.1	2380.3	2381.3	2473.0	2659.4	2707.7	2878.9	3018.0	3063.4
22.5°	2922.4	2913.9	2849.6	2710.5	2582.8	2597.0	2779.6	2842.0	3041.6	3190.2	3205.3
25°	3467.4	3456.9	3357.6	3161.8	2940.4	2797.5	2942.3	3014.2	3235.6	3367.1	3335.8
27.5°	4044.5	4035.9	3937.5	3694.4	3379.4	3117.3	3136.2	3204.3	3433.3	3562.9	3463.6
30°	4603.6	4606.4	4509.0	4259.2	3902.5	3525.1	3382.2	3421.9	3625.3	3756.9	3614.9
32.5°	5135.3	5139.1	5054.9	4775.8	4442.8	3999.0	3722.8	3712.4	3848.6	3978.2	3815.5
35°	5609.3	5618.7	5561.0	5344.4	4991.5	4527.0	4164.6	4140.0	4165.6	4312.2	4123.0
37.5°	6066.2	6071.9	6028.4	5845.8	5550.6	5106.9	4722.8	4687.8	4632.9	4745.5	4528.8
40°	6566.7	6552.5	6502.4	6336.8	6083.2	5747.4	5322.6	5262.1	5166.5	5266.8	5062.4
42.5°	7032.2	7016.1	7024.6	6837.3	6623.4	6405.9	6021.7	5917.7	5861.9	5977.3	5717.1
45°	7614.0	7605.5	7633.9	7471.1	7298.0	7140.0	6823.1	6709.5	6684.9	6820.2	6509.0
47.5°	8188.2	8209.1	8297.0	8228.0	8158.0	8018.9	7671.7	7620.6	7635.7	7799.4	7344.4
50°	8667.0	8691.6	8932.8	9012.3	9113.5	9032.1	8684.0	8652.8	8712.4	8860.0	8243.1
52.5°	9013.2	9063.4	9363.3	9729.4	10098.4	10153.2	9806.0	9777.6	9858.1	9880.8	8937.5
55°	9253.5	9298.0	9637.6	10307.4	11058.6	11295.1	11079.4	10969.7	10954.6	10730.3	9667.9
57.5°	9296.1	9291.4	9779.5	10681.1	11811.7	12421.9	12285.7	12177.8	11867.5	11515.6	10505.2
60°	9055.8	9083.2	9649.9	10810.8	12284.7	13274.3	13284.7	13144.7	12661.3	12279.1	11316.9
62.5°	8316.0	8427.6	9000.0	10471.1	12279.1	13617.8	14017.0	13910.1	13332.0	12904.4	12140.0
65°	7116.4	7156.1	7702.0	9307.5	11449.4	13474.0	14676.4	14636.7	13936.6	13511.8	12562.9
67.5°	5196.8	5110.7	5684.0	7329.2	9693.4	12635.7	15149.4	15199.6	14403.0	13636.7	12112.6
68°	4742.7	4768.2	5214.7	6840.1	9233.7	12339.6	15180.7	15257.3	14449.4	13555.3	11866.6
70°	2826.9	2876.1	3274.4	4709.5	7024.6	10664.1	14843.9	15018.9	14173.1	12716.1	10263.9
72.5°	721.9	780.5	1157.0	2107.8	4012.3	7513.7	12530.7	12826.8	12305.6	10316.0	6929.0
75°	297.1	312.2	413.4	694.4	1494.8	3385.0	8259.2	8893.1	8530.7	6176.0	3131.5
77.5°	205.3	215.7	265.8	385.1	647.1	1147.6	4049.2	4507.1	4060.5	2107.8	683.1
80°	147.6	156.1	190.2	256.4	371.8	409.6	1319.8	1526.0	1211.9	462.6	169.3
82.5°	88.0	94.6	141.9	182.6	226.1	195.8	328.3	372.8	351.0	229.9	75.7
85°	43.5	51.1	95.6	130.6	122.0	82.3	100.3	111.6	138.1	140.0	40.7
87.5°	2.8	5.7	55.8	78.5	34.1	18.9	29.3	36.0	49.2	69.1	17.0
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°	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5
2.5°	2384.1	2385.0	2378.4	2375.6	2377.5	2366.1	2361.4	2363.3	2363.3	2366.1	2361.4
5°	2407.8	2407.8	2396.4	2381.3	2372.7	2351.0	2336.8	2333.0	2330.2	2328.3	2324.5
7.5°	2458.8	2453.2	2433.3	2400.2	2371.8	2324.5	2288.5	2269.6	2260.2	2256.4	2253.5
10°	2541.1	2530.7	2497.6	2436.1	2370.9	2286.7	2208.1	2152.3	2106.0	2087.0	2075.7
12.5°	2651.8	2636.7	2580.9	2478.7	2364.2	2209.1	2038.8	1875.1	1722.8	1660.4	1629.1
15°	2779.6	2757.8	2669.8	2514.7	2325.4	2034.1	1664.1	1377.5	1166.5	1087.0	1053.0
17.5°	2909.2	2880.8	2747.4	2537.4	2209.1	1671.7	1167.5	881.7	740.8	702.9	689.7
20°	3039.7	2998.1	2814.6	2520.3	1946.1	1205.3	770.1	644.3	603.6	592.2	588.5
22.5°	3163.7	3099.3	2875.1	2454.1	1541.2	808.9	609.3	569.5	556.3	549.7	547.8
25°	3271.5	3181.6	2928.1	2249.8	1090.8	611.2	548.7	535.5	518.4	506.1	507.1
27.5°	3372.7	3263.9	2960.3	1913.0	727.5	522.2	508.0	490.1	458.8	440.9	440.9
30°	3494.8	3373.7	2983.9	1472.1	535.5	461.7	450.3	422.9	380.3	356.7	356.7
32.5°	3678.3	3540.2	2968.8	1033.1	443.7	405.9	379.4	341.5	295.2	272.5	271.5
35°	3959.3	3797.5	2860.9	677.4	391.7	352.9	310.3	264.0	223.3	204.4	203.4
37.5°	4337.7	4141.9	2618.7	484.4	351.0	303.7	252.6	201.5	171.2	158.9	158.0
40°	4828.7	4542.1	2272.5	392.6	313.1	256.4	194.9	156.1	135.3	125.8	126.8
42.5°	5418.2	4970.7	1857.1	338.7	276.3	211.0	152.3	123.0	109.7	103.1	101.2
45°	6072.8	5393.6	1421.9	301.8	239.4	170.3	119.2	97.4	87.0	83.3	83.3
47.5°	6792.8	5805.1	1040.7	269.6	199.6	131.5	95.6	79.5	71.0	68.1	67.2
50°	7446.5	6090.8	750.2	235.6	163.7	104.1	77.6	66.2	60.5	56.8	56.8
52.5°	7991.5	6180.7	552.5	198.7	132.5	83.3	64.3	56.8	51.1	48.2	48.2
55°	8471.1	6143.8	410.6	163.7	106.9	68.1	54.9	48.2	43.5	40.7	40.7
57.5°	8930.9	6024.6	306.5	133.4	86.1	54.9	46.4	40.7	36.0	34.1	34.1
60°	9306.5	5825.9	228.0	107.9	69.1	44.5	38.8	33.1	29.3	26.5	26.5
62.5°	9611.1	5606.4	167.5	88.9	54.9	35.0	30.3	27.4	21.8	18.9	18.9
65°	9613.0	5242.2	125.8	73.8	42.6	27.4	22.7	21.8	14.2	11.4	10.4
67.5°	8917.7	4519.4	96.5	63.4	33.1	20.8	17.0	18.0	7.6	4.7	3.8
68°	8665.1	4335.8	90.8	62.4	31.2	19.9	16.1	18.0	6.6	3.8	2.8
70°	7305.6	3449.4	72.8	60.5	27.4	15.1	13.2	18.0	5.7	2.8	1.9
72.5°	4672.6	2001.9	53.9	48.2	20.8	11.4	8.5	16.1	5.7	1.9	0.9
75°	1988.6	620.6	36.9	34.1	12.3	8.5	5.7	10.4	3.8	0.9	0.0
77.5°	419.1	140.0	21.8	20.8	8.5	5.7	3.8	2.8	0.9	0.0	0.0
80°	107.9	40.7	11.4	10.4	4.7	2.8	1.9	0.0	0.0	0.0	0.0
82.5°	34.1	16.1	6.6	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.0	9.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)