

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: P383231

Luminaire Tested: **GLEON-SA5C-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383231  
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-SA5C-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32317.3 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

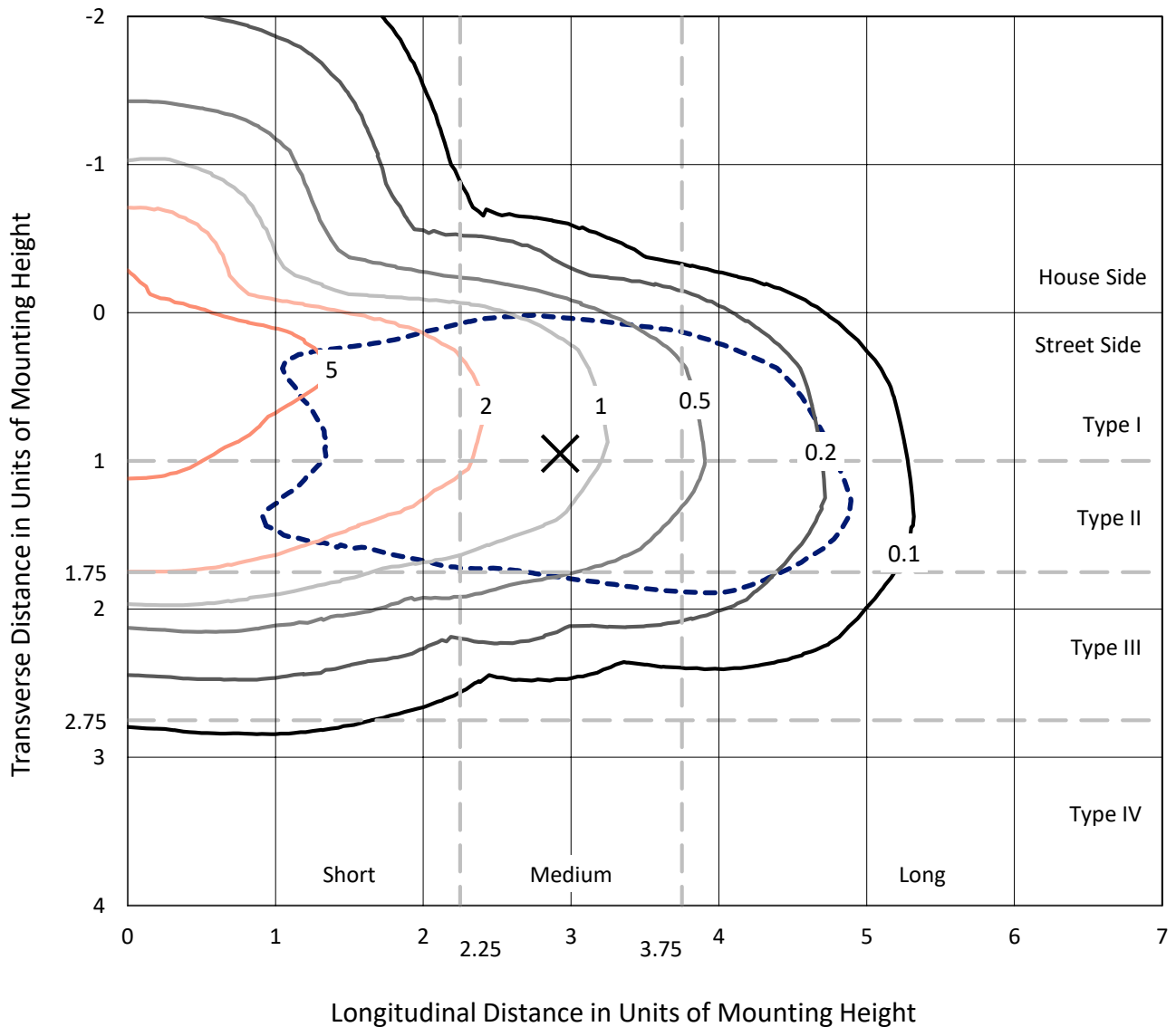
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

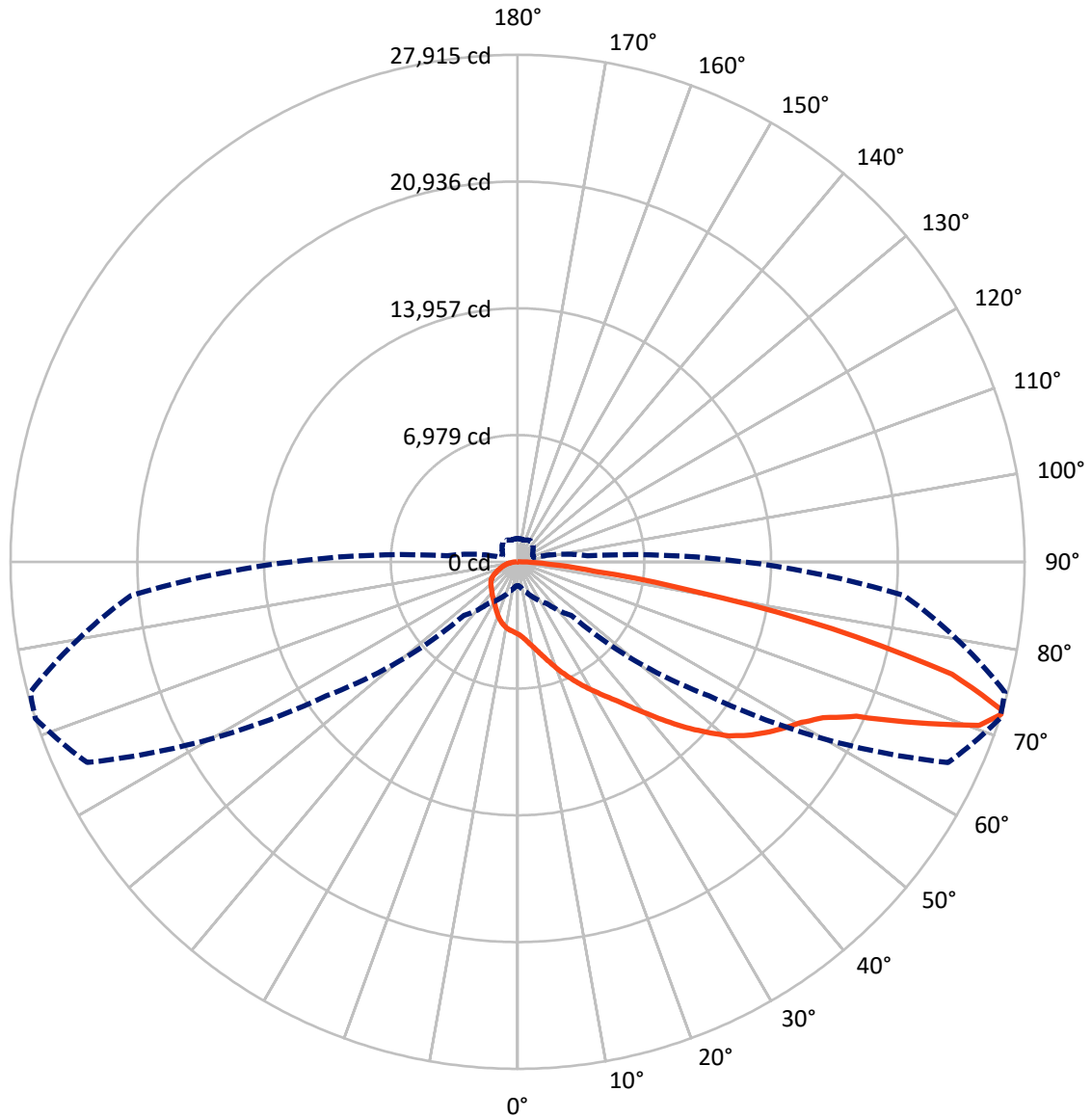
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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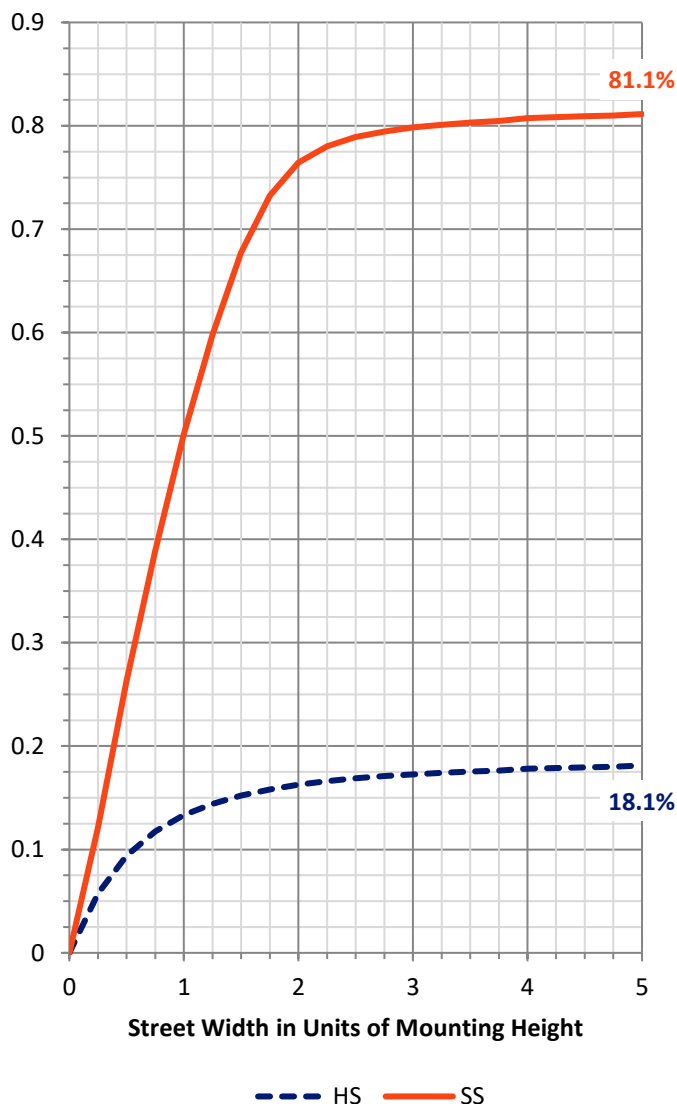
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5995.1	0.0	5995.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	26322.2	0.0	26322.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	32317.3	0.0	32317.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.4	1.2
10°-20°	1287.4	4.0
20°-30°	2256.0	7.0
30°-40°	3344.9	10.4
40°-50°	4892.2	15.1
50°-60°	6731.6	20.8
60°-70°	7494.2	23.2
70°-80°	5078.1	15.7
80°-90°	834.6	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°	32317.3	100.0
0°-180°	32317.3	100.0

**Coefficient of Utilization**

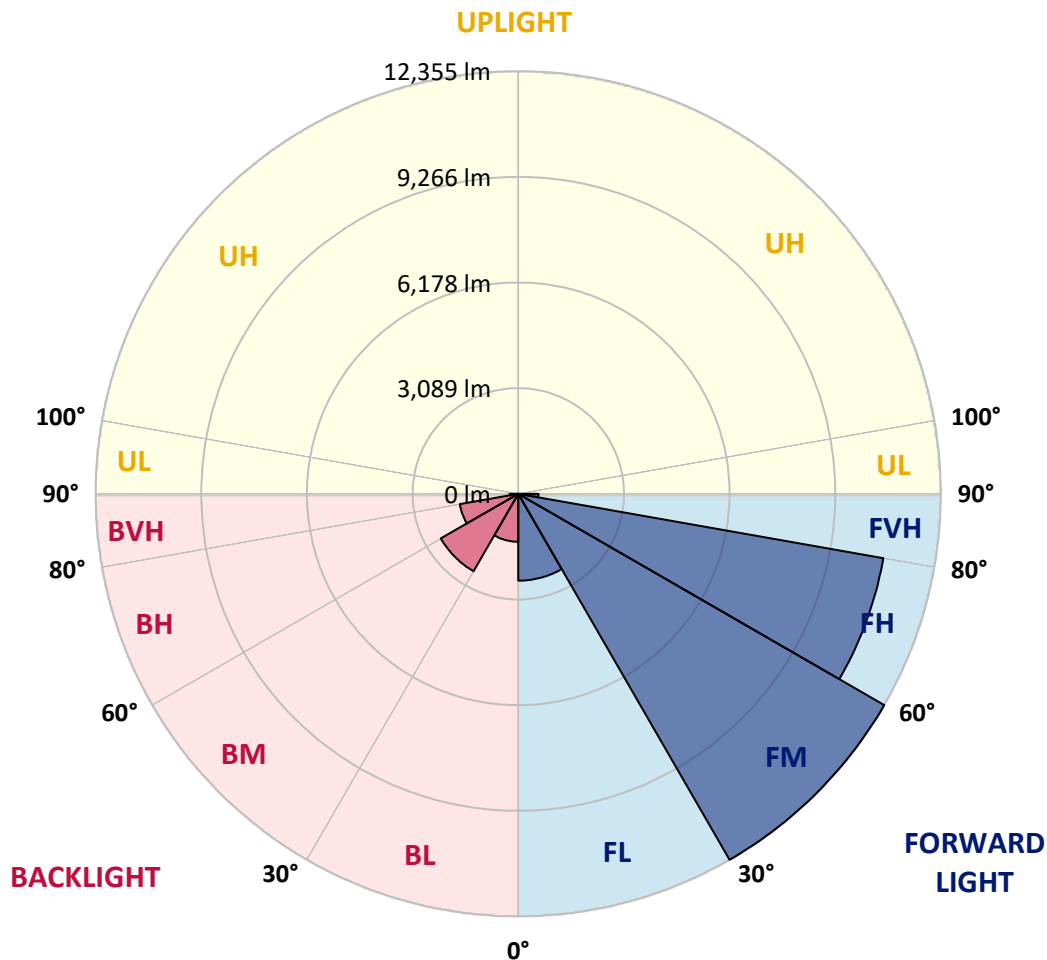


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2540.3	7.9			
FM (30°-60°)	12355.3	38.2			
FH (60°-80°)	10837.8	33.5			G4/12000
FVH (80°-90°)	588.7	1.8			G4/750
BL (0°-30°)	1401.4	4.3	B3/2500		
BM (30°-60°)	2613.3	8.1	B3/5000		
BH (60°-80°)	1734.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	245.9	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8
2.5°	4392.1	4385.4	4362.0	4362.0	4317.4	4279.6	4208.5	4160.6	4103.8	4083.8	4017.0
5°	4817.1	4819.4	4790.4	4770.4	4704.7	4624.6	4503.3	4393.2	4283.0	4238.4	4101.6
7.5°	5174.3	5169.8	5162.1	5145.4	5084.2	5001.9	4838.3	4674.7	4512.2	4445.4	4209.6
10°	5403.5	5413.5	5420.2	5428.0	5402.4	5343.5	5188.7	4989.6	4777.1	4685.8	4338.6
12.5°	5519.2	5537.0	5568.2	5621.6	5663.9	5657.2	5544.9	5333.4	5080.8	4966.2	4499.9
15°	5587.1	5610.5	5659.4	5755.2	5874.2	5942.1	5912.1	5720.6	5439.1	5297.8	4697.0
17.5°	5629.4	5648.3	5724.0	5852.0	6028.9	6209.1	6288.1	6127.9	5844.2	5682.8	4922.9
20°	5658.3	5672.8	5767.4	5917.7	6146.8	6433.9	6654.2	6614.2	6290.4	6081.2	5158.7
22.5°	5722.9	5735.2	5825.2	5976.6	6230.3	6600.9	7007.0	7067.1	6761.1	6524.1	5411.4
25°	5903.1	5903.1	5978.9	6084.5	6322.7	6745.5	7305.2	7571.2	7241.8	6965.8	5645.0
27.5°	6247.0	6243.7	6271.5	6308.2	6488.4	6892.4	7571.2	8016.2	7740.3	7438.8	5872.0
30°	6654.2	6676.5	6679.8	6662.1	6746.6	7076.0	7817.1	8485.8	8242.1	7917.2	6104.5
32.5°	7178.4	7192.9	7176.2	7117.2	7104.9	7336.4	8058.5	8977.7	8785.1	8416.9	6317.1
35°	7843.8	7816.0	7763.7	7643.5	7528.9	7684.7	8334.6	9469.6	9394.9	9021.1	6609.8
37.5°	8557.1	8558.2	8493.7	8221.0	8063.0	8129.8	8715.1	10027.0	10132.7	9739.9	6984.7
40°	9129.0	9159.1	9199.1	8840.9	8636.1	8728.4	9199.1	10673.5	11005.1	10592.3	7473.2
42.5°	9528.5	9563.0	9676.5	9451.8	9239.2	9410.6	9768.9	11363.4	11984.4	11576.0	8045.2
45°	9951.4	9970.3	10050.4	9953.6	9817.9	10204.0	10410.9	12077.8	13020.3	12624.1	8685.0
47.5°	10396.4	10416.5	10498.8	10434.3	10363.1	10945.0	11080.8	12751.0	14012.9	13775.9	9368.3
50°	10946.2	10959.5	11037.3	10920.5	10942.8	11503.7	11679.5	13368.6	15053.3	14810.8	10053.7
52.5°	11696.1	11699.5	11807.5	11701.7	11597.1	11913.1	12194.6	13950.6	15869.0	15754.3	10739.2
55°	12283.7	12319.3	12673.1	12650.9	12590.8	12284.8	12625.3	14504.8	16596.7	16651.2	11466.9
57.5°	11908.7	12047.8	12764.3	13269.6	13761.4	13209.5	13207.3	15129.0	17273.2	17531.4	12267.0
60°	10429.8	10619.0	11675.0	12795.6	14334.5	14818.5	14415.7	15891.2	17956.5	18403.8	13269.6
62.5°	7448.7	7760.4	9191.3	10980.6	13548.9	15884.6	16874.9	17100.8	18885.6	19414.2	14572.6
65°	3765.6	4001.5	5201.0	7356.4	10824.9	15188.0	19547.7	19749.1	20500.2	20969.8	16578.9
67.5°	2287.8	2376.8	2962.1	4091.6	6636.4	11830.7	20420.1	24163.4	23624.9	23874.1	19439.8
70°	1685.8	1751.5	2116.5	2717.3	3816.7	6942.5	17742.8	27313.6	26959.7	26932.0	21554.1
72°	1313.0	1360.9	1683.6	2195.5	2790.8	4165.0	12860.1	26150.8	27914.5	27774.3	21360.4
72.5°	1245.2	1287.5	1581.2	2066.4	2637.2	3775.6	11562.6	25366.3	27845.5	27782.1	21110.0
75°	980.4	1010.4	1170.6	1597.9	2064.1	2142.1	6336.0	19657.9	24702.0	25729.1	18986.9
77.5°	811.2	815.7	900.2	1162.9	1609.1	1514.4	3112.4	13639.0	17688.3	18817.7	13449.9
80°	660.9	666.5	706.6	815.7	1217.3	1120.6	1477.7	7842.7	9903.5	9915.8	6396.1
82.5°	526.3	527.4	572.0	596.5	874.6	801.2	846.8	3682.1	4327.5	4162.8	2299.0
85°	370.6	362.7	558.6	489.6	572.0	514.1	467.4	1457.7	1789.3	1711.4	720.0
87.5°	123.5	128.0	248.2	317.1	333.9	291.6	208.1	558.6	675.5	669.9	228.1
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°	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8	3975.8
2.5°	3995.9	3960.3	3908.0	3850.1	3804.5	3757.8	3723.3	3705.5	3685.5	3668.7	3688.7
5°	4038.2	3971.4	3860.1	3751.1	3670.9	3599.8	3548.5	3521.9	3497.4	3480.7	3482.9
7.5°	4107.2	3999.2	3812.3	3653.2	3541.9	3465.1	3412.8	3395.0	3379.5	3375.0	3380.6
10°	4180.6	4021.5	3748.8	3537.5	3410.6	3347.1	3323.8	3336.1	3347.1	3357.2	3368.3
12.5°	4264.1	4041.5	3656.5	3401.6	3293.8	3269.3	3292.6	3346.0	3385.0	3408.3	3422.8
15°	4373.2	4059.3	3549.7	3265.9	3193.6	3221.4	3300.4	3392.8	3460.7	3504.0	3510.7
17.5°	4473.3	4058.2	3412.8	3129.1	3112.4	3193.6	3312.7	3442.8	3534.1	3595.3	3607.5
20°	4576.8	4028.2	3253.7	2995.5	3030.0	3163.5	3318.3	3475.1	3585.2	3656.5	3673.2
22.5°	4673.6	3975.8	3079.0	2874.2	2961.0	3123.5	3297.1	3456.2	3566.3	3624.3	3642.1
25°	4739.2	3884.6	2902.1	2771.9	2899.8	3074.6	3228.1	3356.1	3438.4	3467.3	3471.8
27.5°	4772.6	3765.6	2735.1	2682.9	2836.4	2994.5	3100.1	3163.5	3186.9	3184.7	3180.2
30°	4777.1	3608.6	2591.6	2610.5	2763.0	2876.4	2926.5	2914.3	2884.3	2833.0	2837.5
32.5°	4762.5	3431.7	2471.4	2541.5	2669.5	2732.9	2735.1	2676.1	2596.0	2514.8	2492.5
35°	4767.0	3258.2	2365.8	2463.7	2556.0	2583.8	2558.2	2471.4	2362.4	2257.8	2235.5
37.5°	4816.0	3106.8	2274.5	2373.5	2430.2	2436.9	2400.2	2308.9	2228.8	2126.4	2117.6
40°	4932.8	2998.8	2187.6	2272.2	2304.6	2307.8	2255.6	2191.0	2197.7	2143.1	2142.1
42.5°	5143.2	2952.2	2110.9	2166.5	2186.5	2193.2	2153.2	2112.0	2169.9	2134.3	2122.1
45°	5414.6	2963.3	2046.3	2063.0	2099.8	2130.9	2106.4	2056.4	2078.7	1923.9	1872.8
47.5°	5728.5	3034.5	1995.2	1974.0	2037.5	2096.4	2058.6	1982.9	1903.9	1750.4	1721.4
50°	6095.7	3144.6	1948.4	1886.1	1969.6	2049.7	2011.9	1903.9	1784.8	1710.3	1700.3
52.5°	6478.4	3279.3	1901.7	1789.3	1883.9	2014.1	1995.2	1886.1	1739.2	1665.8	1652.5
55°	6912.5	3415.1	1842.7	1676.9	1791.6	1997.4	1987.4	1821.5	1704.7	1663.6	1653.6
57.5°	7452.1	3569.7	1764.8	1560.1	1704.7	1937.3	1906.1	1782.6	1669.1	1637.9	1634.7
60°	8155.3	3797.8	1652.5	1435.4	1599.0	1844.9	1838.2	1725.9	1612.4	1590.2	1585.7
62.5°	9210.2	4175.0	1497.7	1310.8	1481.1	1688.1	1749.3	1649.1	1552.3	1551.2	1553.4
65°	10846.0	4742.5	1329.8	1201.8	1362.0	1555.6	1645.8	1570.1	1491.1	1513.3	1516.7
67.5°	12742.2	5213.2	1165.1	1094.9	1240.7	1429.9	1552.3	1491.1	1409.9	1467.7	1468.9
70°	13373.0	4792.6	1020.4	989.2	1115.0	1308.6	1451.1	1404.3	1322.0	1379.8	1374.2
72°	12445.0	3869.0	926.9	909.1	1020.4	1208.4	1360.9	1323.1	1241.8	1280.8	1266.3
72.5°	12152.4	3688.7	903.6	889.1	994.8	1182.9	1337.5	1303.0	1221.8	1255.2	1241.8
75°	10840.4	3203.6	776.7	780.1	867.9	1058.2	1206.3	1195.1	1111.6	1115.0	1110.5
77.5°	7862.7	2349.0	654.3	676.6	738.9	930.2	1073.8	1067.1	975.9	959.2	955.9
80°	3648.7	1198.4	533.0	543.0	607.6	777.8	915.8	906.9	833.5	812.3	800.1
82.5°	1249.6	569.7	400.6	407.3	470.7	626.5	794.5	788.9	727.7	686.6	660.9
85°	446.2	283.7	280.4	273.8	336.0	493.0	692.1	662.1	572.0	487.4	485.1
87.5°	144.7	121.3	144.7	143.6	195.8	333.9	502.9	428.4	415.1	345.0	338.2
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)