

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: P269307

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL2-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14105.9 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
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: 25 FT

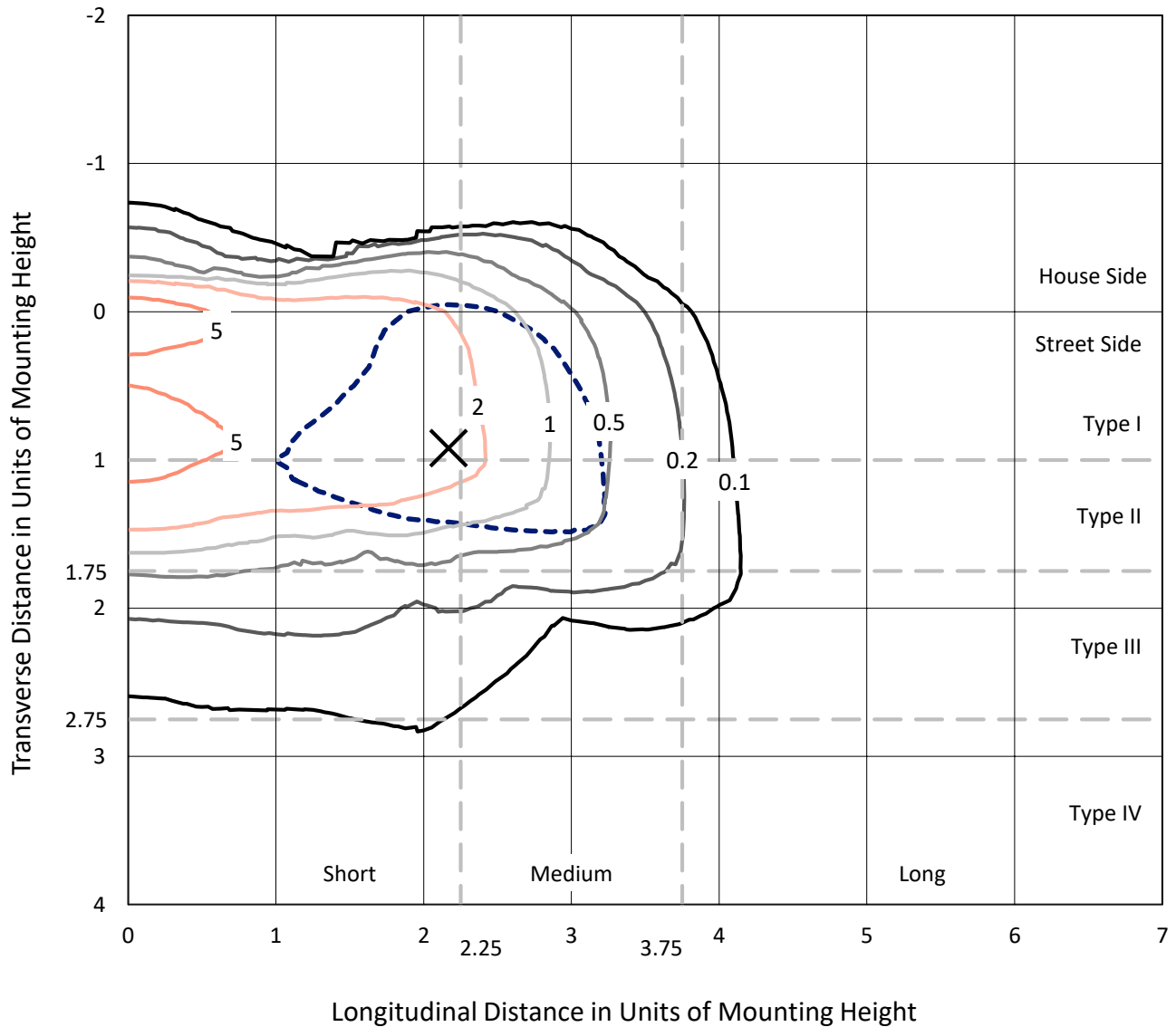


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Iso-Footcandle Lines of Horizontal Illumination

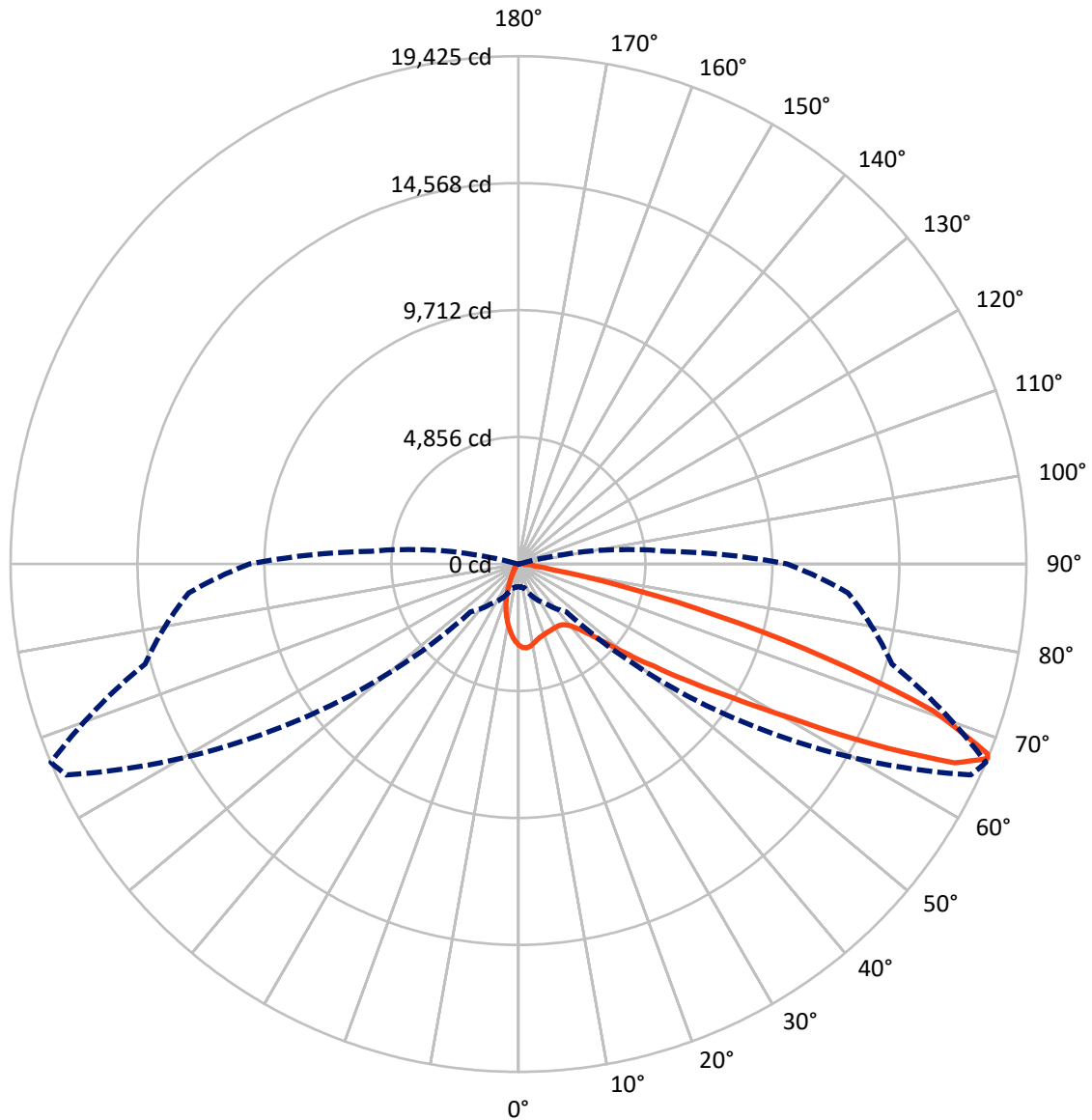
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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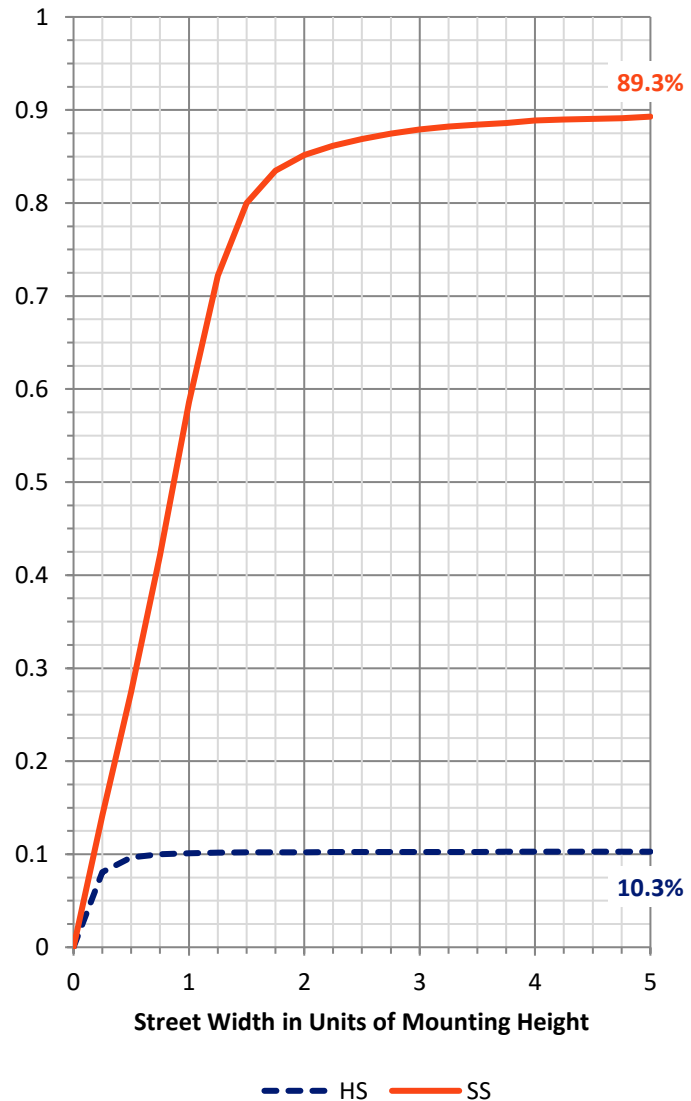
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1464.6	0.0	1464.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12641.2	0.0	12641.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	14105.9	0.0	14105.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	1.8
10°-20°	538.7	3.8
20°-30°	783.3	5.6
30°-40°	1222.0	8.7
40°-50°	2164.7	15.3
50°-60°	3425.3	24.3
60°-70°	3923.3	27.8
70°-80°	1627.4	11.5
80°-90°	168.1	1.2
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°	14105.9	100.0
0°-180°	14105.9	100.0



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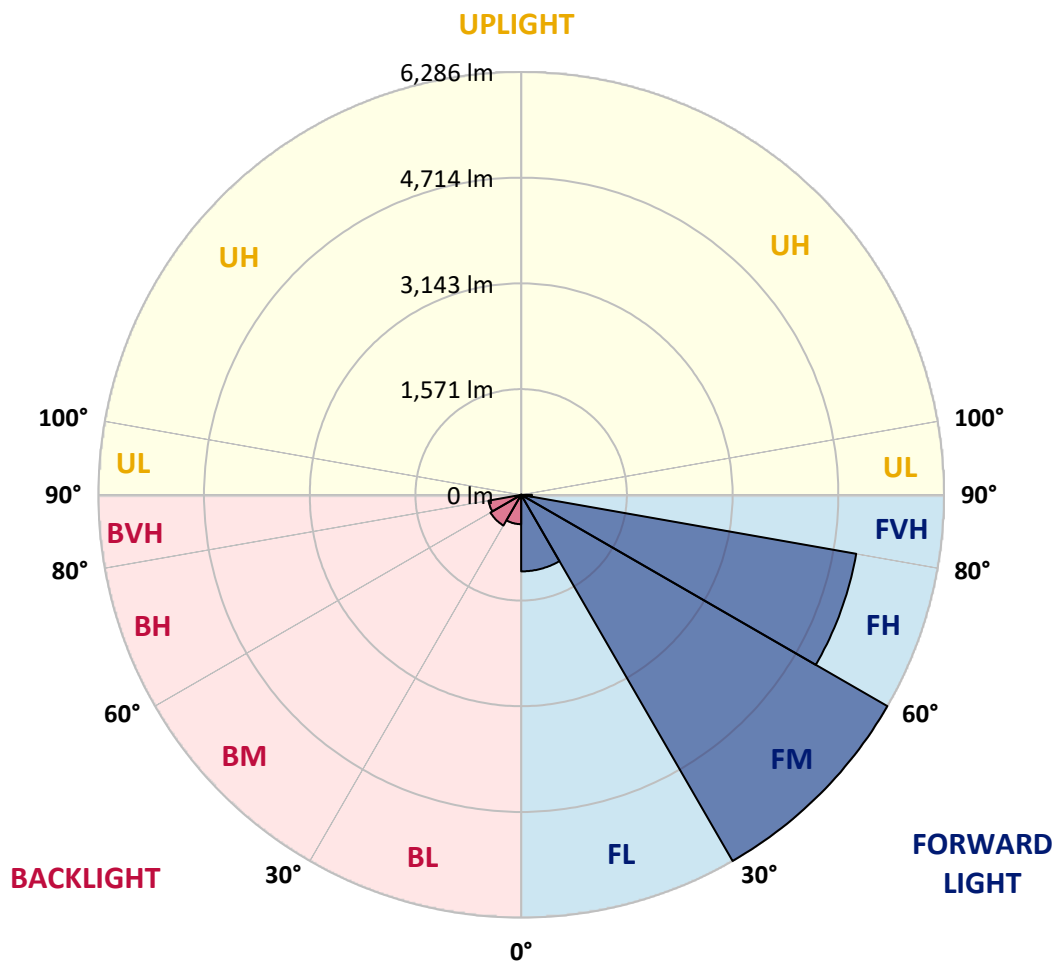
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.1	8.1			
FM (30°-60°)	6285.6	44.6			
FH (60°-80°)	5057.0	35.9			G3/7500
FVH (80°-90°)	160.5	1.1			G2/225
BL (0°-30°)	437.0	3.1	B1/500		
BM (30°-60°)	526.4	3.7	B1/1000		
BH (60°-80°)	493.6	3.5	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9
2.5°	3216.2	3222.8	3222.0	3226.9	3238.4	3239.2	3227.7	3205.5	3200.5	3171.7	3121.6
5°	2966.1	2985.0	2996.4	3043.4	3096.1	3159.3	3207.0	3224.3	3222.0	3201.4	3125.7
7.5°	2680.5	2699.4	2712.6	2767.8	2837.7	2946.4	3070.5	3172.5	3181.5	3203.9	3122.4
10°	2490.6	2493.8	2511.9	2564.5	2637.8	2748.9	2896.9	3075.4	3102.7	3184.1	3114.2
12.5°	2334.2	2336.6	2360.4	2417.2	2495.4	2607.3	2762.8	2969.3	3011.3	3159.3	3112.4
15°	2223.0	2232.2	2253.6	2312.7	2395.9	2507.0	2666.6	2891.1	2941.4	3150.4	3127.3
17.5°	2186.0	2195.9	2202.6	2245.4	2321.0	2429.6	2593.3	2840.3	2896.9	3155.2	3156.1
20°	2224.7	2232.2	2217.3	2228.1	2275.0	2372.1	2531.7	2796.6	2864.1	3161.0	3193.1
22.5°	2368.7	2372.1	2331.7	2284.7	2276.6	2330.1	2483.1	2762.0	2834.4	3176.6	3236.8
25°	2615.5	2609.8	2544.0	2442.9	2347.4	2322.7	2454.3	2740.5	2819.6	3193.1	3282.0
27.5°	2913.5	2921.6	2831.1	2683.9	2502.0	2372.1	2450.1	2731.6	2813.0	3204.7	3321.6
30°	3275.4	3286.9	3183.2	2998.2	2737.3	2493.8	2488.0	2729.9	2808.9	3197.2	3324.7
32.5°	3644.9	3658.8	3577.4	3386.5	3051.6	2697.8	2573.6	2748.1	2817.2	3171.7	3305.9
35°	4031.6	4051.3	3997.0	3833.2	3477.8	2992.3	2724.2	2803.2	2855.8	3169.3	3286.9
37.5°	4565.5	4583.6	4481.6	4308.0	3993.7	3387.2	2966.1	2906.8	2947.1	3208.7	3291.8
40°	5362.7	5360.2	5097.1	4831.3	4560.5	3889.2	3305.9	3094.4	3115.0	3328.1	3352.7
42.5°	6231.6	6227.5	5838.4	5434.3	5190.0	4507.1	3752.6	3418.6	3404.5	3547.8	3510.8
45°	6901.3	6900.5	6582.9	6127.9	5947.8	5216.3	4330.2	3869.4	3848.1	3904.8	3801.9
47.5°	7186.8	7191.8	7032.1	6712.0	6787.9	6175.7	5058.4	4522.7	4490.6	4467.6	4311.2
50°	6964.6	6974.5	6987.7	6925.2	7404.0	7464.9	6035.0	5443.4	5427.7	5325.0	5080.5
52.5°	6239.0	6289.3	6443.9	6642.2	7617.9	8702.3	7566.2	6587.0	6503.1	6393.6	6124.6
55°	5016.3	5071.6	5365.2	5846.6	7299.5	9515.2	9711.8	8061.4	7921.6	7594.9	7206.6
57.5°	3319.9	3405.5	3831.6	4443.7	6374.7	9646.1	11852.6	10107.5	9620.6	8726.2	8288.5
60°	1828.9	1911.2	2373.7	2928.2	4604.2	8999.4	13292.5	12771.7	11911.2	9990.8	9602.4
62.5°	1126.4	1170.9	1512.2	2028.2	2761.2	7102.9	13590.4	16119.5	15123.1	11619.0	11189.6
65°	896.8	915.7	1082.7	1657.8	1979.5	4224.9	12628.6	18671.7	18339.3	13590.4	12610.4
67°	870.5	878.0	956.9	1423.4	1866.0	2590.1	10579.9	19087.2	19424.6	14783.3	12655.0
67.5°	876.2	884.6	959.3	1358.3	1862.7	2380.2	9874.0	18923.5	19349.8	14878.0	12458.2
70°	844.9	870.5	1098.4	1357.6	1771.4	1977.9	5913.3	16396.0	16839.4	13824.0	10570.9
72.5°	299.4	301.1	474.8	1098.4	1926.1	1999.3	2969.3	12019.7	12348.0	10574.9	7621.2
75°	177.8	151.4	158.0	312.6	1840.4	1941.7	1713.0	7680.5	7803.0	6059.6	3859.6
77.5°	122.6	107.0	110.2	138.2	700.9	1914.6	1360.8	4005.3	3874.4	2125.2	821.9
80°	70.0	61.8	65.8	120.9	255.1	1786.2	1283.5	1624.1	1384.6	360.4	227.1
82.5°	37.0	31.4	37.9	99.5	177.8	1113.2	1286.0	784.8	621.9	121.8	154.7
85°	13.1	10.7	18.1	68.4	118.4	341.4	1192.2	659.9	518.3	59.3	117.7
87.5°	2.4	2.4	7.4	27.9	47.7	104.6	705.1	391.7	262.5	35.4	80.7
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°	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9
2.5°	3100.9	3065.6	3017.9	2959.5	2890.3	2829.5	2784.2	2737.3	2727.4	2711.1	2708.5
5°	3080.4	3019.6	2901.0	2765.3	2620.4	2489.7	2383.6	2288.9	2247.0	2210.8	2206.6
7.5°	3049.9	2958.7	2757.1	2538.3	2312.0	2106.3	1931.8	1808.5	1694.9	1640.6	1632.4
10°	3014.6	2883.7	2595.1	2291.3	1978.7	1688.4	1429.2	1212.0	1080.3	1002.1	992.3
12.5°	2981.7	2810.5	2429.6	2035.5	1620.1	1231.7	898.5	691.2	552.8	496.9	490.4
15°	2966.1	2751.2	2275.0	1773.9	1244.8	784.1	491.3	380.2	334.9	321.8	320.9
17.5°	2964.3	2701.2	2123.6	1503.1	872.2	455.8	320.1	292.0	283.1	279.7	279.7
20°	2963.6	2653.5	1972.1	1222.7	553.7	303.5	266.5	260.0	253.4	249.3	249.3
22.5°	2972.6	2610.7	1814.1	936.4	348.8	246.0	234.5	227.9	219.6	213.9	213.1
25°	2981.7	2577.6	1652.9	666.5	252.7	213.9	202.4	193.3	181.8	174.5	173.6
27.5°	2983.4	2536.5	1480.1	446.0	211.5	186.8	171.9	158.0	144.7	137.4	136.6
30°	2958.7	2467.5	1288.4	301.1	186.8	162.1	142.3	127.5	115.3	109.5	109.5
32.5°	2910.1	2381.9	1077.8	227.1	166.1	139.1	117.7	103.7	95.4	93.0	92.2
35°	2866.5	2289.7	861.5	192.5	148.8	117.7	96.3	87.2	82.3	81.4	80.7
37.5°	2841.0	2215.7	658.2	174.5	132.5	98.8	81.4	74.9	72.5	70.7	71.5
40°	2860.7	2154.0	486.3	159.5	116.1	82.3	69.1	65.8	63.3	62.5	62.5
42.5°	2947.1	2143.3	361.2	146.5	100.4	68.4	60.0	57.6	56.0	55.2	56.0
45°	3174.3	2209.1	280.6	134.0	84.7	57.6	51.1	50.1	49.3	49.3	49.3
47.5°	3515.6	2344.8	233.6	120.2	70.7	49.3	44.5	43.6	42.8	43.6	43.6
50°	4094.0	2593.3	208.9	106.1	58.4	42.0	37.9	37.9	37.9	37.9	38.6
52.5°	4973.6	3082.1	192.5	92.2	47.7	35.4	32.1	32.1	32.9	32.9	33.7
55°	5953.4	3730.4	177.8	78.2	40.3	29.6	26.3	27.2	27.9	28.7	28.7
57.5°	7016.5	4448.6	165.4	64.1	34.6	23.9	22.2	23.0	23.9	25.5	25.5
60°	8299.3	5226.2	147.3	50.1	28.7	19.0	17.2	19.0	21.4	23.0	23.9
62.5°	9707.8	5978.2	124.2	39.4	23.9	14.8	14.1	17.2	20.7	22.2	23.0
65°	10670.3	6214.4	95.4	32.1	18.1	10.7	11.5	15.6	19.8	22.2	22.2
67°	10280.5	5634.3	78.2	27.2	14.8	8.3	10.7	15.6	19.8	21.4	22.2
67.5°	10009.8	5407.2	74.9	26.3	14.1	8.3	10.7	15.6	19.8	22.2	22.2
70°	8144.6	4062.0	62.5	19.8	11.5	7.4	9.1	14.8	19.0	21.4	21.4
72.5°	5659.0	2504.5	56.0	14.1	9.9	6.6	8.3	14.1	18.1	20.7	21.4
75°	2690.5	906.7	47.7	10.7	9.1	5.7	7.4	14.1	18.1	20.7	20.7
77.5°	548.8	210.7	38.6	9.1	7.4	5.7	6.6	13.1	17.2	19.8	19.8
80°	180.2	81.4	28.7	8.3	7.4	5.7	6.6	12.3	17.2	19.0	19.8
82.5°	130.0	41.1	19.0	8.3	7.4	5.7	5.7	12.3	16.4	19.0	19.0
85°	99.5	28.7	12.3	8.3	7.4	5.7	5.7	11.5	15.6	18.1	18.1
87.5°	65.8	11.5	9.9	8.3	7.4	5.7	5.7	11.5	14.8	17.2	18.1
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)