

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: P269067

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269067  
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-02-LED-E1-SL2-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 5774 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

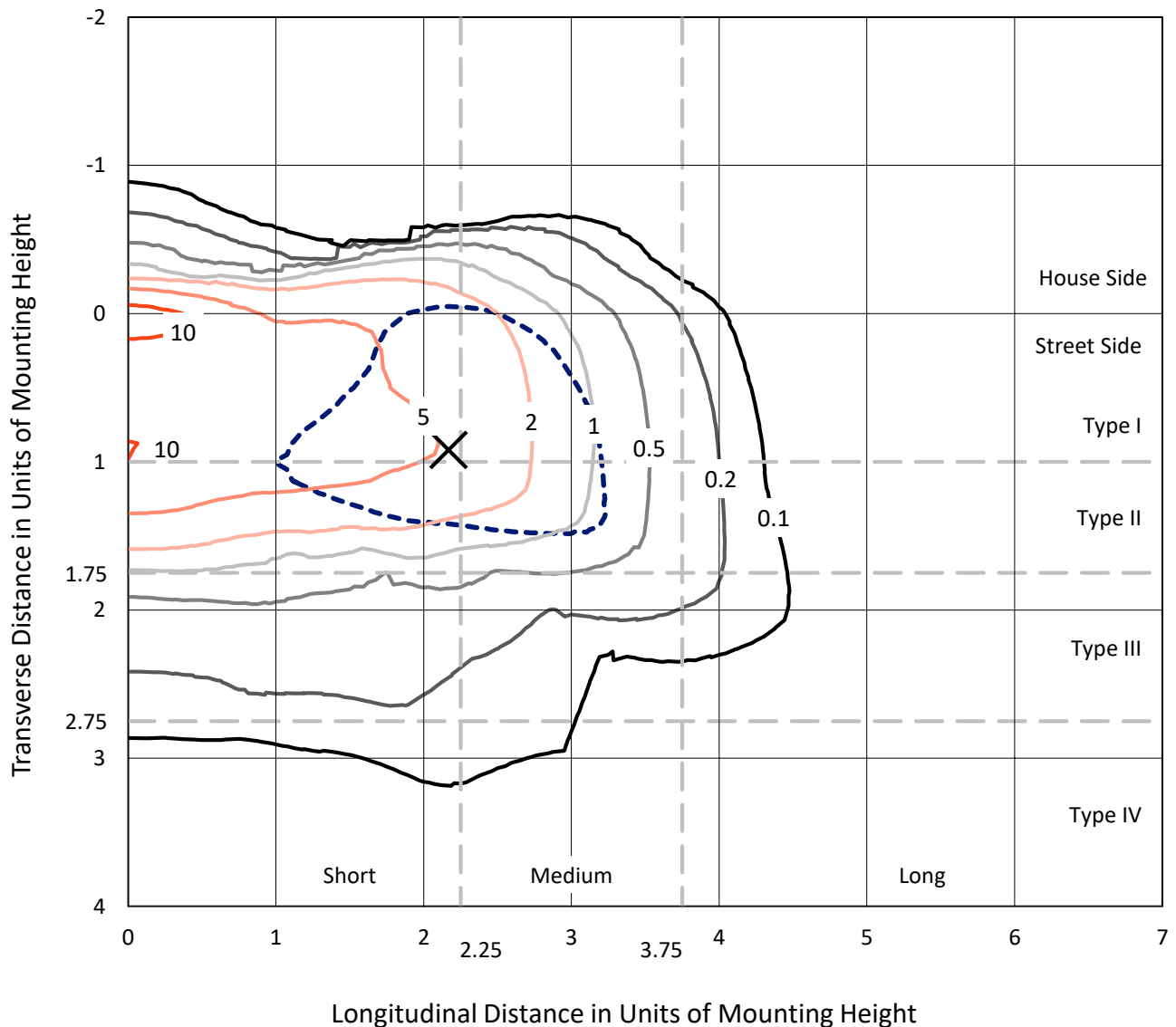


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

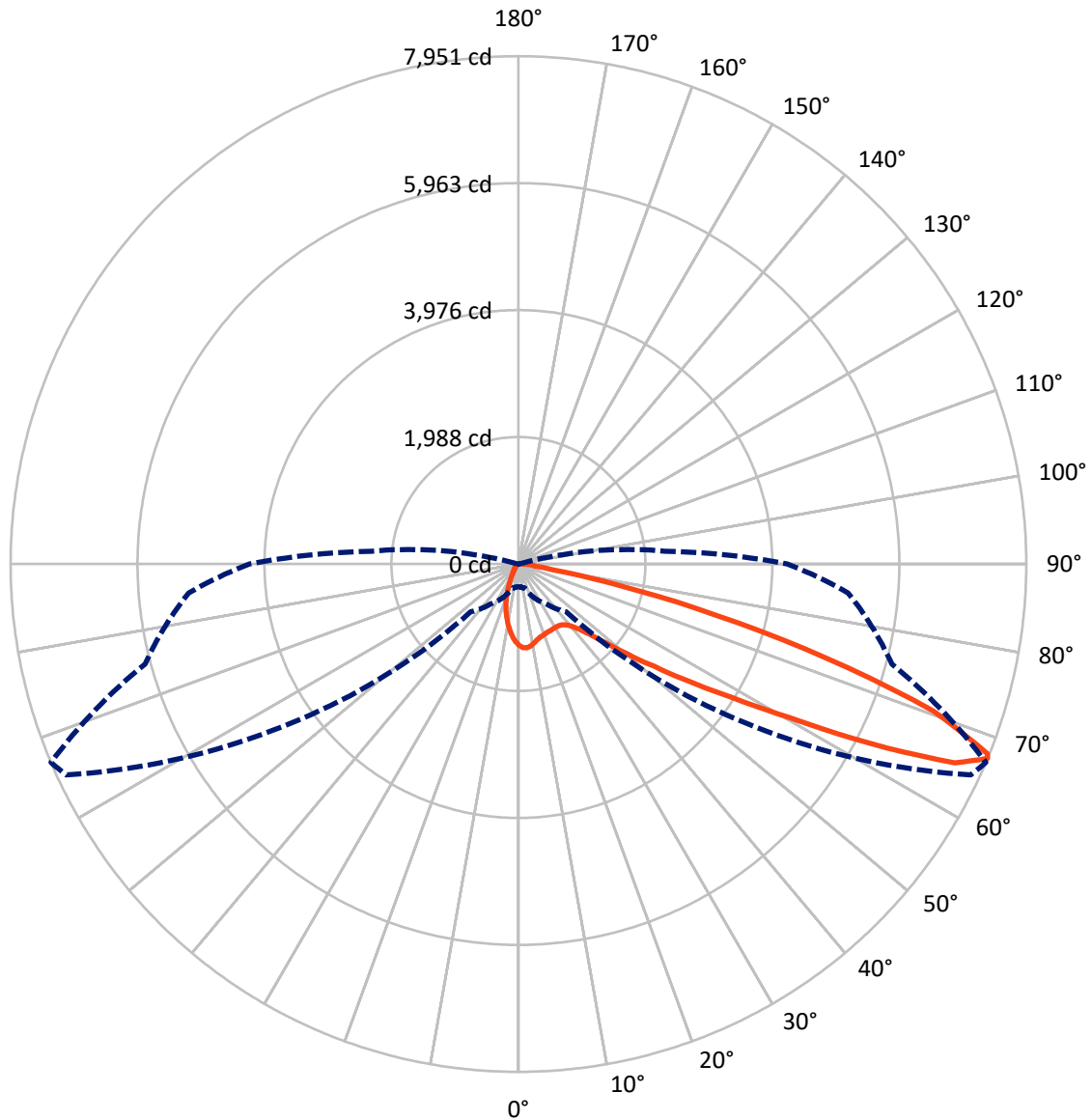


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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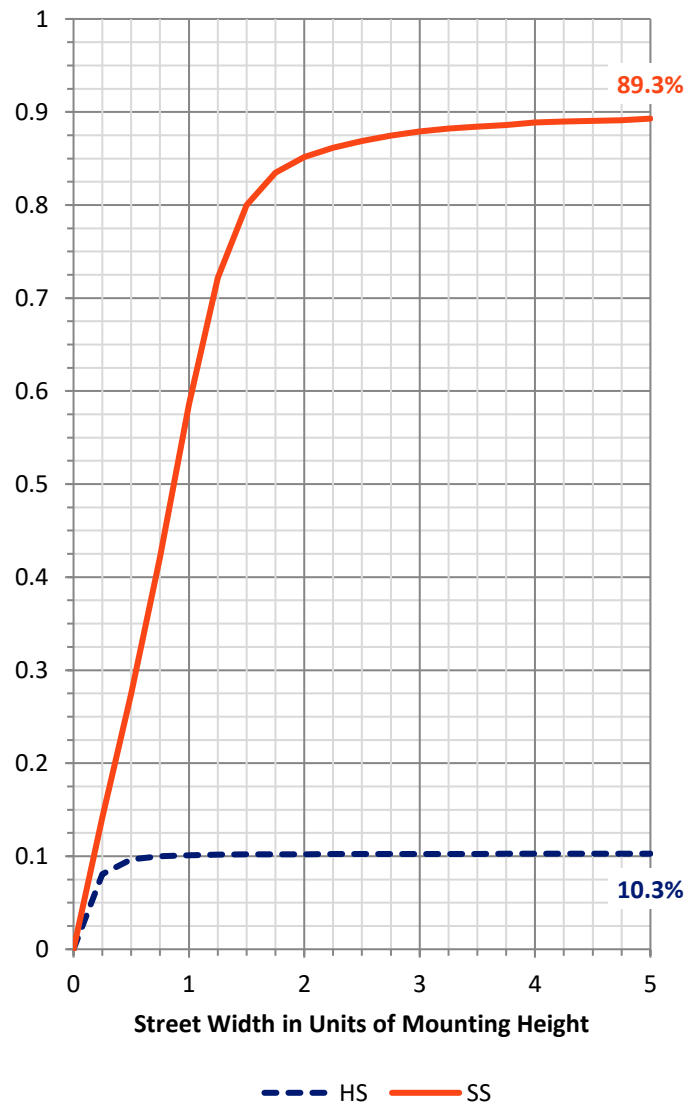
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	599.5	0.0	599.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	5174.5	0.0	5174.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	5774.0	0.0	5774.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	1.8
10°-20°	220.5	3.8
20°-30°	320.6	5.6
30°-40°	500.2	8.7
40°-50°	886.1	15.3
50°-60°	1402.1	24.3
60°-70°	1605.9	27.8
70°-80°	666.1	11.5
80°-90°	68.8	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°	5774.0	100.0
0°-180°	5774.0	100.0



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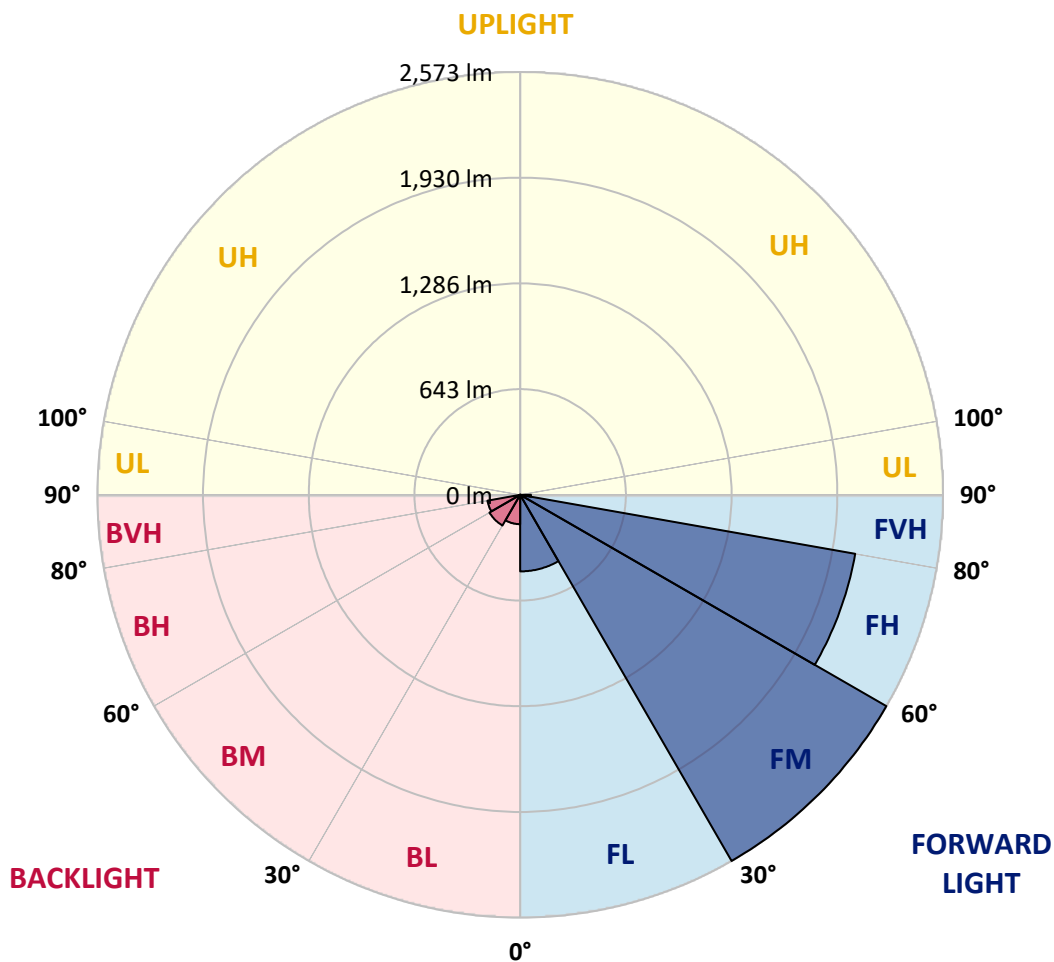
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	465.9	8.1			
FM (30°-60°)	2572.9	44.6			
FH (60°-80°)	2070.0	35.9			G2/5000
FVH (80°-90°)	65.7	1.1			G1/100
BL (0°-30°)	178.9	3.1	B1/500		
BM (30°-60°)	215.5	3.7	B0/220		
BH (60°-80°)	202.1	3.5	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3
2.5°	1316.5	1319.3	1318.8	1320.9	1325.5	1325.9	1321.1	1312.2	1310.1	1298.3	1277.7
5°	1214.1	1221.9	1226.5	1245.8	1267.2	1293.3	1312.9	1319.9	1318.8	1310.4	1279.5
7.5°	1097.3	1104.9	1110.3	1132.9	1161.6	1206.1	1256.9	1298.7	1302.4	1311.4	1278.1
10°	1019.4	1020.8	1028.2	1049.8	1079.8	1125.1	1185.9	1259.0	1270.1	1303.4	1274.8
12.5°	955.4	956.4	966.2	989.6	1021.5	1067.2	1131.0	1215.4	1232.7	1293.3	1274.1
15°	910.1	913.7	922.5	946.8	980.7	1026.3	1091.5	1183.4	1204.0	1289.5	1280.2
17.5°	894.8	898.8	901.5	919.1	950.0	994.6	1061.5	1162.5	1185.9	1291.6	1291.9
20°	910.7	913.7	907.6	912.0	931.3	971.0	1036.3	1144.7	1172.4	1294.0	1307.0
22.5°	969.6	971.0	954.4	935.2	931.9	953.8	1016.4	1130.5	1160.3	1300.3	1324.9
25°	1070.6	1068.3	1041.3	1000.0	960.8	950.8	1004.7	1121.9	1154.1	1307.0	1343.4
27.5°	1192.6	1196.0	1159.0	1098.5	1024.2	971.0	1003.0	1118.1	1151.4	1311.7	1359.7
30°	1340.7	1345.5	1303.0	1227.3	1120.5	1020.8	1018.5	1117.4	1149.8	1308.7	1360.9
32.5°	1491.9	1497.7	1464.3	1386.3	1249.2	1104.3	1053.4	1124.9	1153.2	1298.3	1353.1
35°	1650.2	1658.4	1636.2	1569.1	1423.6	1224.8	1115.1	1147.5	1169.0	1297.3	1345.5
37.5°	1868.8	1876.2	1834.5	1763.5	1634.7	1386.5	1214.1	1189.8	1206.3	1313.5	1347.5
40°	2195.2	2194.2	2086.5	1977.6	1866.8	1591.9	1353.1	1266.7	1275.1	1362.3	1372.4
42.5°	2550.8	2549.1	2389.9	2224.6	2124.4	1844.8	1536.1	1399.4	1393.6	1452.2	1437.1
45°	2825.0	2824.6	2694.6	2508.3	2434.6	2135.2	1772.5	1583.9	1575.2	1598.4	1556.4
47.5°	2941.8	2943.8	2878.4	2747.5	2778.5	2527.9	2070.6	1851.2	1838.2	1828.8	1764.8
50°	2851.0	2855.0	2860.4	2834.7	3030.7	3055.7	2470.2	2228.2	2221.8	2179.6	2079.7
52.5°	2553.8	2574.5	2637.8	2718.9	3118.2	3562.1	3097.0	2696.4	2661.9	2617.2	2507.0
55°	2053.3	2076.0	2196.1	2393.3	2988.0	3895.0	3975.4	3299.8	3242.6	3108.9	2949.9
57.5°	1359.0	1394.0	1568.4	1819.0	2609.4	3948.5	4851.7	4137.5	3938.1	3572.0	3392.8
60°	748.6	782.3	971.6	1198.6	1884.6	3683.8	5441.2	5228.0	4875.7	4089.7	3930.7
62.5°	461.1	479.2	619.0	830.2	1130.2	2907.5	5563.1	6598.3	6190.5	4756.0	4580.3
65°	367.0	374.9	443.3	678.6	810.4	1729.3	5169.3	7643.0	7507.0	5563.1	5161.9
67°	356.3	359.3	391.8	582.6	763.7	1060.2	4330.8	7813.1	7951.2	6051.4	5180.2
67.5°	358.7	362.0	392.6	556.1	762.5	974.3	4041.7	7746.2	7920.5	6090.1	5099.7
70°	345.8	356.3	449.6	555.7	725.1	809.6	2420.6	6711.4	6893.1	5658.8	4327.0
72.5°	122.6	123.2	194.4	449.6	788.4	818.4	1215.4	4920.1	5054.6	4328.8	3119.6
75°	72.8	62.0	64.7	128.0	753.4	794.8	701.1	3143.9	3194.2	2480.4	1579.8
77.5°	50.1	43.7	45.2	56.6	287.0	783.7	557.0	1639.4	1586.0	869.9	336.4
80°	28.7	25.2	26.9	49.4	104.5	731.2	525.4	664.8	566.8	147.5	93.0
82.5°	15.1	12.8	15.5	40.8	72.8	455.7	526.3	321.4	254.6	49.9	63.3
85°	5.4	4.4	7.4	27.9	48.5	139.7	488.0	270.1	212.2	24.3	48.1
87.5°	1.0	1.0	3.1	11.5	19.6	42.8	288.6	160.3	107.4	14.6	33.0
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°	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3
2.5°	1269.3	1254.8	1235.3	1211.5	1183.2	1158.3	1139.7	1120.5	1116.5	1109.8	1108.7
5°	1261.0	1236.0	1187.5	1132.0	1072.7	1019.0	975.6	936.9	919.8	905.0	903.2
7.5°	1248.5	1211.0	1128.6	1039.0	946.4	862.2	790.8	740.3	693.9	671.6	668.2
10°	1234.0	1180.5	1062.2	937.9	810.0	691.1	584.9	496.0	442.1	410.2	406.2
12.5°	1220.4	1150.5	994.6	833.2	663.0	504.2	367.8	282.8	226.4	203.5	200.7
15°	1214.1	1126.3	931.3	726.1	509.6	321.0	201.1	155.5	137.1	131.7	131.3
17.5°	1213.4	1105.6	869.2	615.2	356.9	186.6	131.1	119.6	115.8	114.5	114.5
20°	1213.2	1086.1	807.2	500.4	226.6	124.2	109.1	106.4	103.8	102.0	102.0
22.5°	1216.8	1068.7	742.5	383.2	142.8	100.7	95.9	93.3	89.9	87.6	87.2
25°	1220.4	1055.1	676.7	272.7	103.3	87.6	82.9	79.1	74.4	71.3	71.1
27.5°	1221.2	1038.4	605.8	182.5	86.5	76.4	70.3	64.7	59.3	56.2	56.0
30°	1211.0	1010.1	527.5	123.2	76.4	66.4	58.3	52.2	47.2	44.7	44.7
32.5°	1191.2	975.0	441.2	93.0	68.0	57.0	48.1	42.4	39.0	38.1	37.6
35°	1173.4	937.3	352.7	78.8	60.9	48.1	39.3	35.8	33.6	33.3	33.0
37.5°	1162.9	907.0	269.4	71.3	54.2	40.5	33.3	30.6	29.6	28.9	29.4
40°	1171.0	881.6	199.1	65.3	47.5	33.6	28.2	26.9	26.0	25.6	25.6
42.5°	1206.3	877.4	147.9	59.9	41.1	27.9	24.6	23.5	22.8	22.5	22.8
45°	1299.3	904.2	114.9	54.8	34.7	23.5	20.9	20.5	20.2	20.2	20.2
47.5°	1439.1	959.8	95.7	49.1	28.9	20.2	18.1	17.8	17.4	17.8	17.8
50°	1675.9	1061.5	85.6	43.5	24.0	17.2	15.5	15.5	15.5	15.5	15.8
52.5°	2035.9	1261.6	78.8	37.6	19.6	14.6	13.1	13.1	13.5	13.5	13.8
55°	2437.0	1526.9	72.8	32.0	16.4	12.1	10.8	11.0	11.5	11.8	11.8
57.5°	2872.2	1821.0	67.7	26.3	14.2	9.8	9.2	9.4	9.8	10.4	10.4
60°	3397.2	2139.3	60.2	20.5	11.8	7.7	7.0	7.7	8.8	9.4	9.8
62.5°	3973.7	2447.2	50.8	16.2	9.8	6.1	5.7	7.0	8.4	9.2	9.4
65°	4367.7	2543.7	39.0	13.1	7.4	4.4	4.8	6.4	8.1	9.2	9.2
67°	4208.2	2306.3	32.0	11.0	6.1	3.4	4.4	6.4	8.1	8.8	9.2
67.5°	4097.3	2213.3	30.6	10.8	5.7	3.4	4.4	6.4	8.1	9.2	9.2
70°	3333.9	1662.8	25.6	8.1	4.8	3.1	3.8	6.1	7.7	8.8	8.8
72.5°	2316.4	1025.1	22.8	5.7	4.0	2.6	3.4	5.7	7.4	8.4	8.8
75°	1101.3	371.1	19.6	4.4	3.8	2.3	3.1	5.7	7.4	8.4	8.4
77.5°	224.7	86.1	15.8	3.8	3.1	2.3	2.6	5.4	7.0	8.1	8.1
80°	73.8	33.3	11.8	3.4	3.1	2.3	2.6	5.0	7.0	7.7	8.1
82.5°	53.2	16.9	7.7	3.4	3.1	2.3	2.3	5.0	6.7	7.7	7.7
85°	40.8	11.8	5.0	3.4	3.1	2.3	2.3	4.8	6.4	7.4	7.4
87.5°	26.9	4.8	4.0	3.4	3.1	2.3	2.3	4.8	6.1	7.0	7.4
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)