

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: P193679

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4766 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

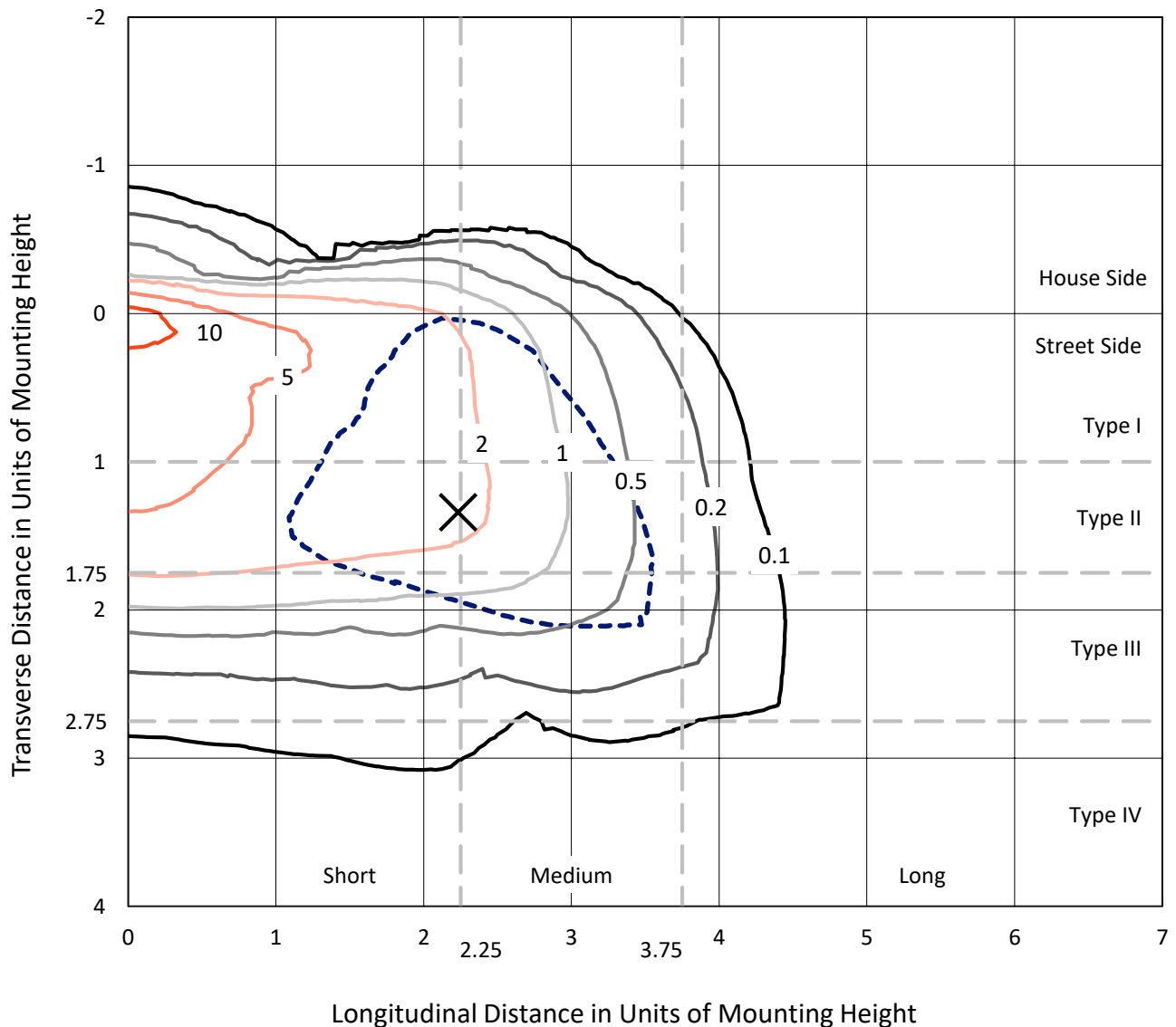


REPORT NUMBER: P193679

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-8030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

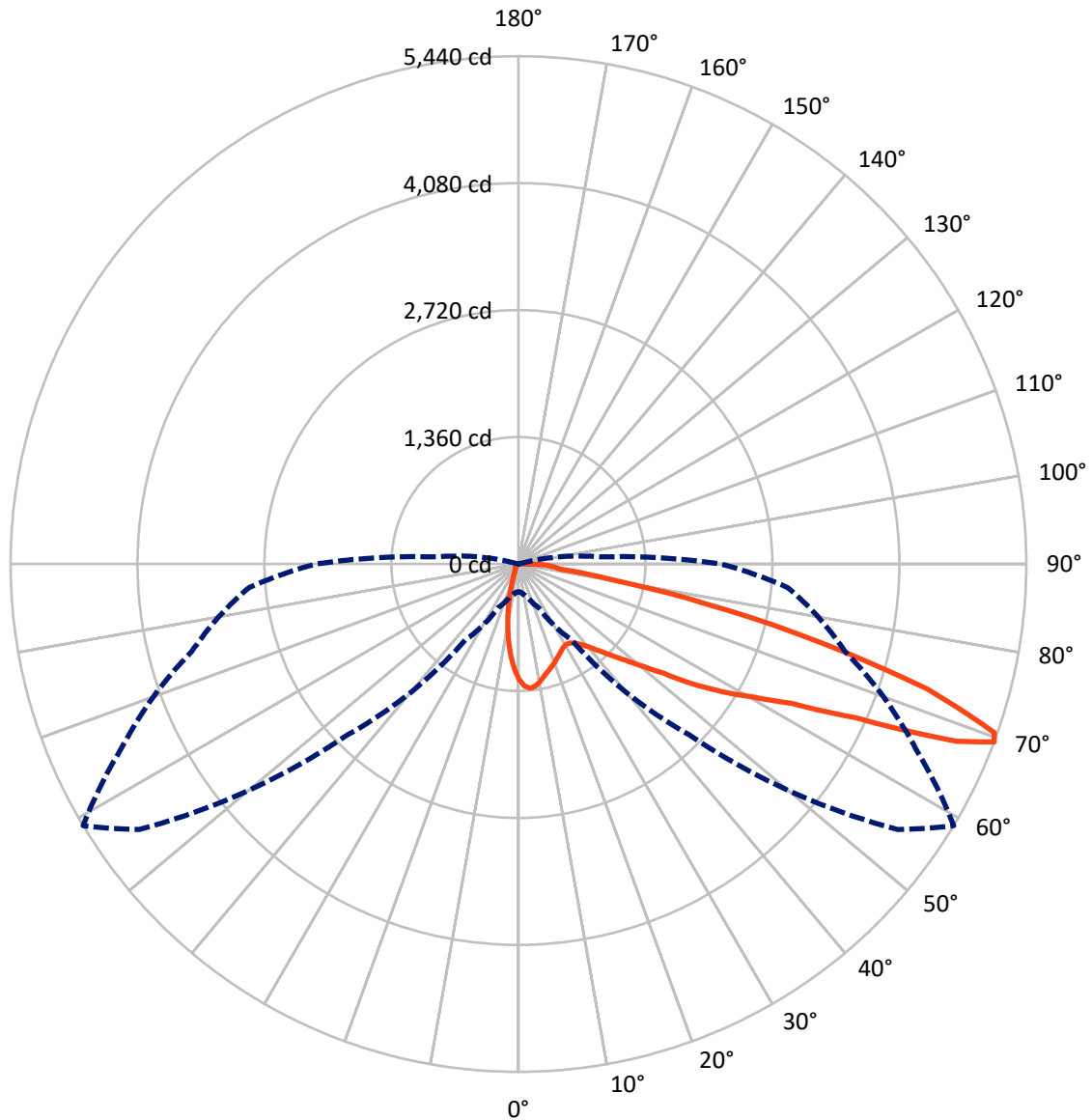


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P193679

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-8030-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P193679

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-8030-1200-HSS

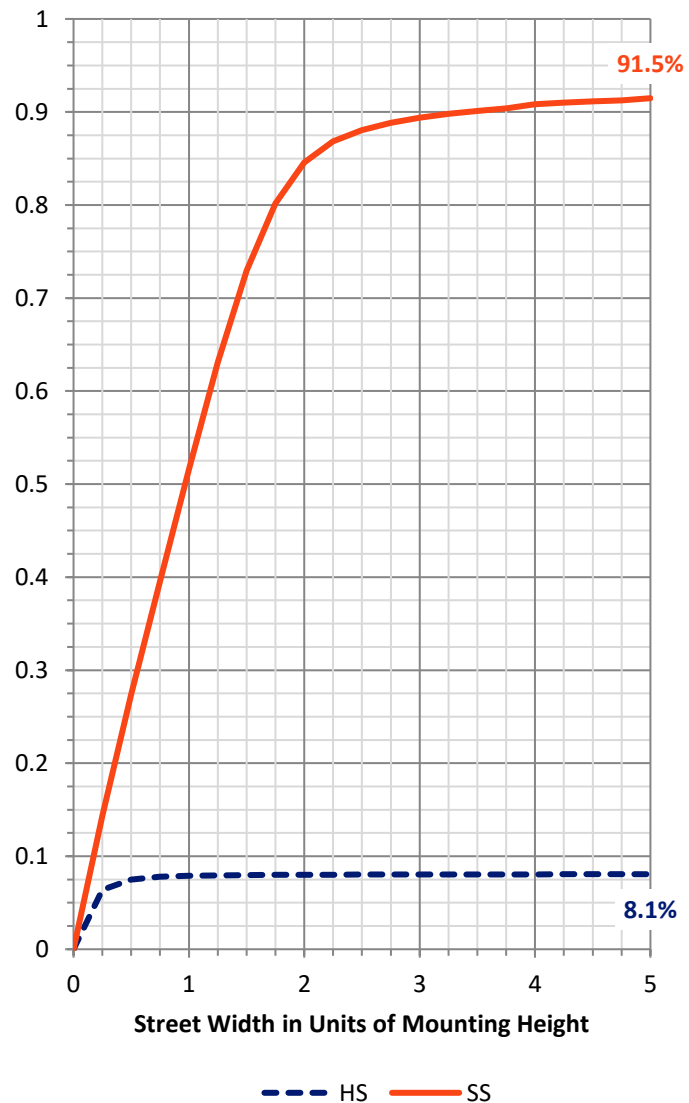
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	388.1	0.0	388.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	4377.9	0.0	4377.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	4766.0	0.0	4766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	2.1
10°-20°	208.1	4.4
20°-30°	280.0	5.9
30°-40°	406.5	8.5
40°-50°	676.9	14.2
50°-60°	1055.9	22.2
60°-70°	1306.6	27.4
70°-80°	662.2	13.9
80°-90°	69.3	1.5
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°	4766.0	100.0
0°-180°	4766.0	100.0



REPORT NUMBER: P193679

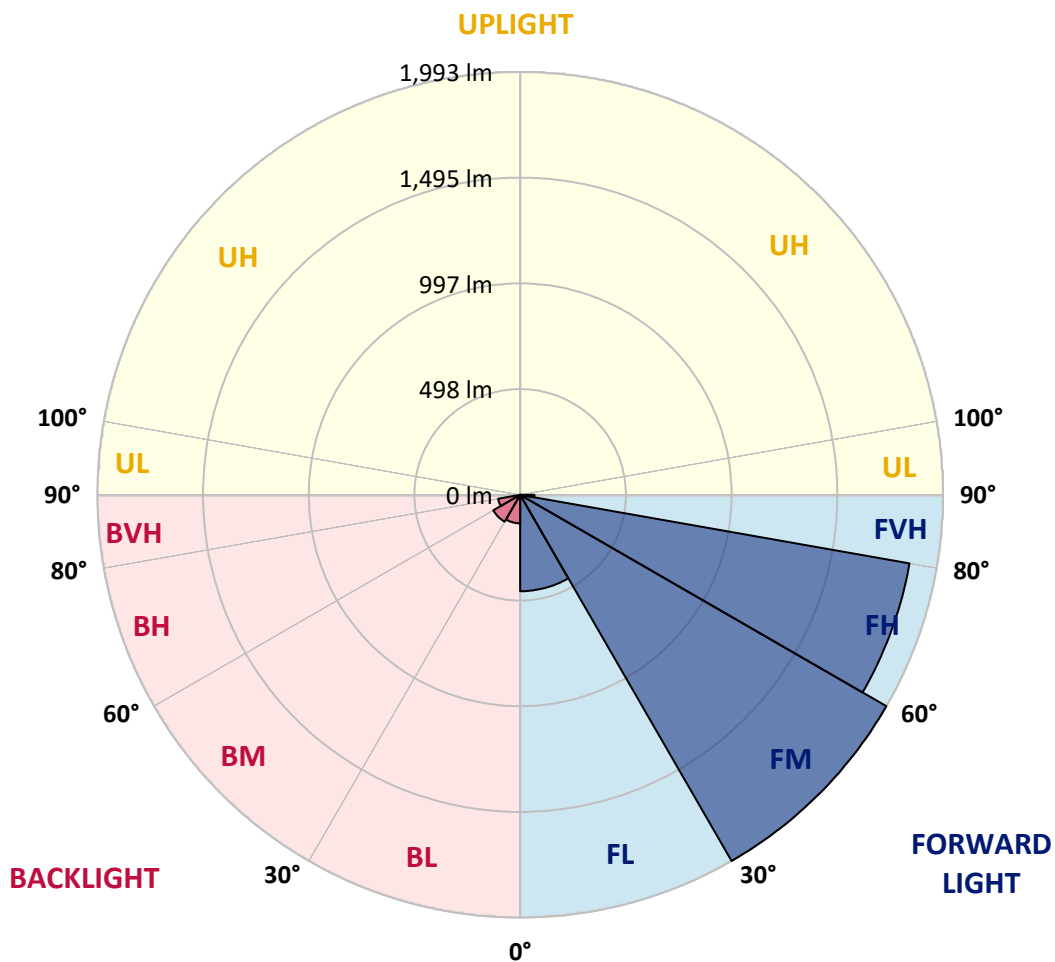
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.4	9.5			
FM	(30°-60°)	1993.0	41.8			
FH	(60°-80°)	1863.3	39.1			G2/5000
FVH	(80°-90°)	67.2	1.4			G1/100
BL	(0°-30°)	134.3	2.8	B1/500		
BM	(30°-60°)	146.2	3.1	B0/220		
BH	(60°-80°)	105.4	2.2	B0/110		G0/110
BVH	(80°-90°)	2.1	0.0			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 III Short





REPORT NUMBER: P193679

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5
2.5°	1359.6	1359.1	1353.2	1350.5	1345.6	1335.4	1319.5	1311.1	1297.7	1274.2	1242.7
5°	1347.2	1353.7	1357.2	1357.5	1361.0	1357.2	1342.9	1335.9	1317.3	1279.6	1223.0
7.5°	1263.2	1265.6	1275.6	1284.2	1300.9	1316.8	1321.9	1318.9	1307.9	1267.5	1192.3
10°	1173.1	1175.6	1187.4	1198.8	1221.4	1245.9	1271.8	1277.2	1281.8	1250.2	1162.6
12.5°	1095.5	1098.0	1110.1	1124.9	1151.3	1181.5	1221.7	1230.6	1250.8	1233.8	1138.9
15°	1028.7	1029.8	1041.6	1060.0	1091.5	1130.3	1175.8	1190.1	1221.1	1222.2	1118.2
17.5°	971.8	974.5	981.8	999.3	1033.8	1081.8	1134.9	1155.4	1191.7	1212.5	1098.0
20°	937.1	939.8	939.5	949.2	980.2	1031.4	1093.9	1118.4	1162.6	1202.5	1079.9
22.5°	930.3	930.3	923.3	922.0	940.3	983.1	1051.3	1081.2	1136.5	1198.2	1067.2
25°	954.3	953.2	935.7	921.4	922.2	947.8	1010.1	1045.7	1114.4	1201.2	1060.5
27.5°	1005.0	1003.6	981.5	954.3	932.5	932.2	978.8	1017.1	1096.9	1215.2	1063.2
30°	1075.0	1074.5	1050.5	1016.3	976.7	940.3	968.1	1002.8	1085.6	1240.5	1069.4
32.5°	1151.6	1150.8	1132.7	1096.6	1046.5	976.7	979.4	1008.5	1088.8	1274.2	1084.5
35°	1232.7	1231.4	1223.5	1192.0	1136.8	1043.8	1016.6	1039.2	1109.3	1324.6	1114.1
37.5°	1320.6	1321.9	1327.6	1297.4	1239.4	1137.8	1078.8	1094.2	1150.5	1393.1	1162.4
40°	1450.2	1449.9	1451.8	1412.2	1356.4	1252.9	1165.9	1170.7	1219.5	1483.9	1235.7
42.5°	1685.5	1669.0	1619.2	1538.3	1482.3	1384.4	1275.6	1270.4	1303.9	1596.3	1338.4
45°	2001.6	1966.6	1837.2	1682.2	1610.6	1532.7	1410.6	1394.1	1415.4	1731.3	1465.0
47.5°	2273.5	2237.1	2054.2	1832.1	1746.7	1673.3	1568.8	1539.1	1546.1	1882.5	1625.6
50°	2366.0	2348.2	2188.4	1962.5	1878.4	1850.4	1752.3	1716.2	1706.2	2057.4	1811.9
52.5°	2333.9	2332.6	2226.1	2047.1	1999.2	2033.7	1983.3	1941.5	1904.8	2241.7	2001.3
55°	2282.4	2289.2	2241.5	2121.3	2119.6	2201.0	2299.1	2264.4	2158.2	2442.0	2164.7
57.5°	2140.4	2169.2	2232.8	2261.4	2327.7	2411.0	2562.2	2582.7	2457.1	2595.3	2300.2
60°	1736.7	1800.0	2008.1	2281.6	2595.9	2803.4	2879.6	2897.2	2702.3	2722.8	2483.2
62.5°	1232.7	1297.4	1561.2	2024.0	2599.9	3318.9	3352.6	3283.9	2972.4	2911.7	2798.8
65°	654.4	704.2	919.8	1461.0	2254.1	3438.6	4179.7	3974.9	3448.8	3283.4	3206.6
67.5°	334.7	349.8	435.5	715.0	1549.6	3054.3	4921.1	5065.3	4270.0	3652.0	3186.9
69°	296.2	305.1	361.9	516.9	992.3	2587.0	4957.2	5439.7	4699.9	3621.3	2896.1
70°	286.8	294.6	346.3	467.9	775.6	2169.5	4819.0	5406.8	4809.8	3504.4	2678.9
72.5°	243.4	250.1	308.3	413.4	630.4	1076.9	3914.5	4581.6	4316.1	2919.3	1939.1
75°	162.8	184.9	295.9	387.5	586.4	611.8	2580.8	3310.8	3075.6	1969.0	1010.1
77.5°	39.1	42.0	83.5	308.3	536.3	538.5	1327.3	2058.2	1678.7	701.8	238.8
80°	21.0	20.2	23.4	61.2	499.4	505.3	597.5	999.0	599.4	116.4	78.7
82.5°	14.8	14.0	15.1	25.6	157.1	460.3	432.3	452.2	248.5	44.7	35.3
85°	5.4	5.1	8.4	23.2	49.3	264.7	444.1	373.0	201.3	20.5	25.9
87.5°	1.9	1.6	3.2	12.7	15.1	112.7	274.1	281.9	79.2	12.4	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193679

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-8030-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5
2.5°	1229.5	1212.8	1182.0	1150.5	1121.4	1086.4	1068.9	1051.6	1044.3	1041.6	1029.0
5°	1193.9	1165.6	1100.4	1034.9	974.5	910.4	868.1	834.1	814.2	804.5	789.1
7.5°	1148.4	1102.0	1003.1	902.0	808.0	715.3	646.5	593.7	557.3	539.8	523.9
10°	1104.2	1042.4	901.8	764.0	636.3	513.4	418.5	349.8	305.9	285.7	272.7
12.5°	1064.5	984.5	803.9	629.6	469.2	325.3	228.8	174.1	146.9	137.4	132.9
15°	1029.2	931.1	711.5	501.8	317.7	186.0	125.0	106.5	102.1	102.1	101.6
17.5°	995.8	878.9	622.3	381.9	199.4	113.7	95.1	92.7	92.7	93.8	93.8
20°	963.7	829.0	536.0	274.1	125.6	90.3	86.0	85.4	86.0	87.3	87.3
22.5°	936.3	783.7	455.5	188.1	93.2	81.4	79.2	78.4	78.7	79.5	80.0
25°	915.8	745.4	379.5	127.5	80.3	74.1	71.7	70.3	69.3	69.3	69.8
27.5°	902.8	713.1	305.9	92.7	72.2	67.4	63.6	61.4	59.0	57.7	58.2
30°	893.4	682.4	236.9	75.7	64.7	59.8	55.0	51.5	48.0	46.4	46.9
32.5°	889.9	657.6	177.1	66.8	57.9	52.6	46.6	42.0	38.3	36.9	37.2
35°	899.3	637.9	129.6	60.4	52.6	45.8	39.1	34.0	31.0	30.2	30.5
37.5°	924.1	627.4	97.0	55.0	47.7	40.2	32.6	27.8	25.9	25.9	26.1
40°	971.0	627.1	77.9	51.2	43.4	34.8	27.0	23.4	22.4	22.9	23.2
42.5°	1039.5	641.4	67.9	47.7	39.6	29.6	22.4	19.9	19.7	20.2	20.5
45°	1133.0	667.6	62.5	44.7	35.6	24.8	18.9	17.2	17.2	18.1	18.3
47.5°	1247.5	705.8	57.9	41.8	31.5	20.8	16.2	15.1	15.4	16.2	16.4
50°	1385.5	754.1	53.4	38.5	28.6	17.2	14.0	13.2	13.5	14.6	14.8
52.5°	1542.6	819.0	49.6	35.6	24.8	14.3	11.9	11.3	11.9	12.9	13.2
55°	1677.4	877.2	45.0	33.1	19.9	11.9	9.7	9.7	10.2	11.6	11.9
57.5°	1807.0	938.1	41.0	28.6	15.6	9.4	8.1	8.4	9.2	10.5	10.8
60°	1997.3	1041.4	36.1	24.0	11.9	7.5	6.7	7.0	8.1	9.4	9.7
62.5°	2320.4	1198.5	31.3	19.9	9.2	5.9	5.4	5.9	7.3	8.9	9.2
65°	2612.0	1262.4	25.6	16.7	7.0	4.6	4.6	5.4	7.0	8.6	8.9
67.5°	2449.5	1062.7	19.9	13.2	5.4	3.5	3.8	5.1	6.7	8.6	8.9
69°	2166.3	868.9	17.0	10.5	4.6	3.2	3.5	5.1	6.7	8.4	8.6
70°	1945.5	733.6	15.1	8.9	4.0	3.2	3.5	4.9	6.7	8.4	8.6
72.5°	1303.0	396.2	12.1	6.5	3.8	3.0	3.0	4.9	6.5	8.1	8.4
75°	560.0	109.4	9.7	4.6	3.2	2.7	2.7	4.6	6.2	7.8	8.4
77.5°	102.4	27.8	7.8	4.0	3.2	2.7	2.4	4.3	5.9	7.5	7.8
80°	40.7	13.7	6.2	3.5	3.0	2.4	2.2	4.0	5.7	7.3	7.5
82.5°	24.5	7.8	5.1	3.2	3.0	2.2	1.9	3.5	5.4	7.0	7.3
85°	19.9	5.4	4.0	3.2	2.7	2.2	1.6	3.2	4.9	6.7	7.0
87.5°	9.7	3.8	3.8	3.0	2.7	2.2	1.6	3.0	4.6	6.5	6.7
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)