

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: P594801

Luminaire Tested: **ISS-PA1E-735-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1E-735-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9683 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

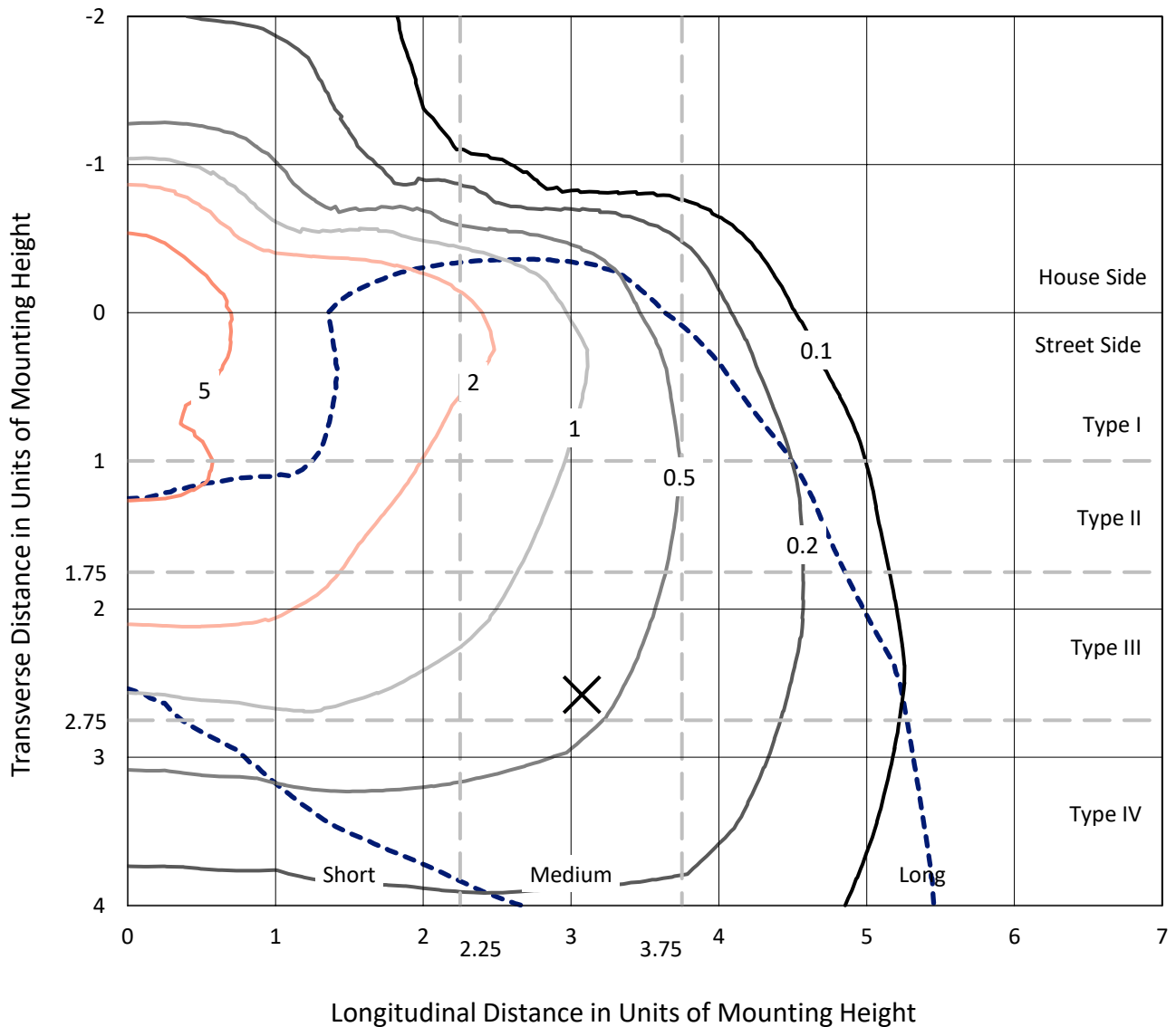
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

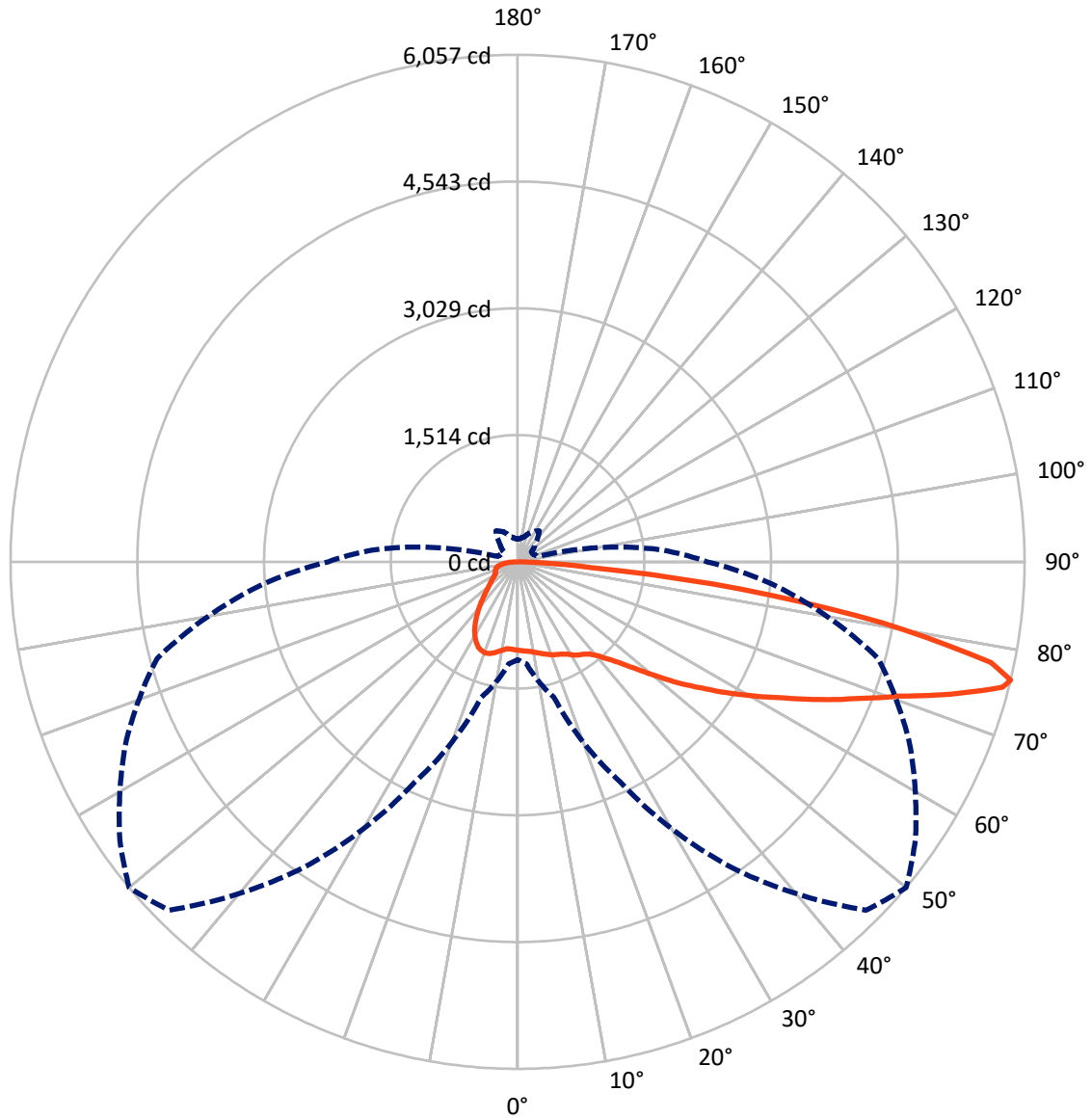
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 76-Deg Vertical

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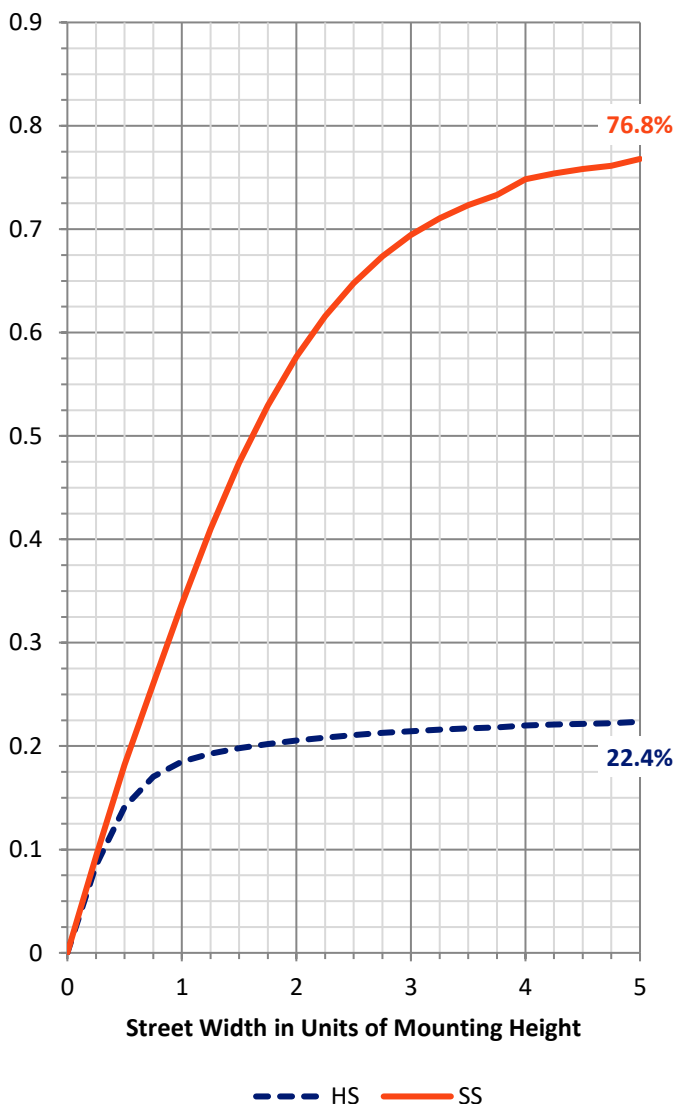
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2215.1	0.0	2215.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	7467.9	0.0	7467.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	9683.0	0.0	9683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	1.1
10°-20°	322.2	3.3
20°-30°	544.3	5.6
30°-40°	746.0	7.7
40°-50°	1098.8	11.3
50°-60°	1728.4	17.9
60°-70°	2488.0	25.7
70°-80°	2262.3	23.4
80°-90°	390.6	4.0
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°	9683.0	100.0
0°-180°	9683.0	100.0

**Coefficient of Utilization**

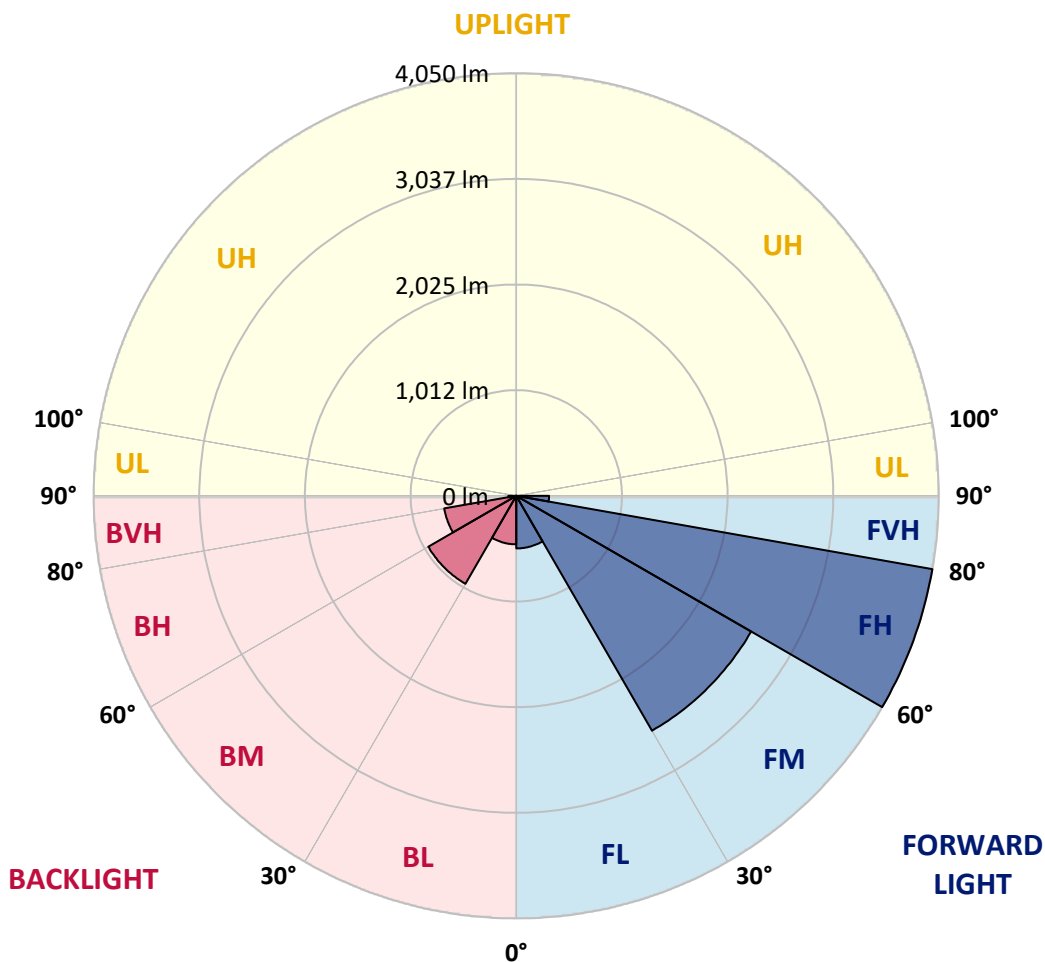


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.0	5.2			
FM (30°-60°)	2599.7	26.8			
FH (60°-80°)	4049.9	41.8			G2/5000
FVH (80°-90°)	314.4	3.2			G3/500
BL (0°-30°)	465.0	4.8	B1/500		
BM (30°-60°)	973.6	10.1	B1/1000		
BH (60°-80°)	700.3	7.2	B2/1000		G2/1000
BVH (80°-90°)	76.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1079.1	1079.1	1081.5	1076.8	1076.8	1064.9	1064.9	1062.5	1057.8	1055.4	1050.7
5°	1119.5	1119.5	1112.3	1100.5	1093.4	1079.1	1072.0	1067.3	1057.8	1045.9	1034.1
7.5°	1162.2	1157.4	1152.7	1133.7	1119.5	1093.4	1081.5	1074.4	1055.4	1038.8	1031.7
10°	1207.2	1200.1	1188.2	1164.5	1143.2	1112.3	1098.1	1088.6	1067.3	1053.1	1036.5
12.5°	1233.3	1233.3	1219.1	1190.6	1162.2	1124.2	1117.1	1105.2	1083.9	1064.9	1048.3
15°	1259.4	1261.8	1247.5	1214.3	1181.1	1152.7	1140.8	1133.7	1110.0	1081.5	1060.2
17.5°	1285.5	1283.1	1268.9	1230.9	1195.4	1169.3	1162.2	1152.7	1128.9	1102.9	1081.5
20°	1304.5	1299.7	1295.0	1247.5	1212.0	1195.4	1185.9	1178.8	1155.0	1126.6	1098.1
22.5°	1309.2	1313.9	1309.2	1252.3	1223.8	1204.8	1202.5	1195.4	1176.4	1150.3	1121.8
25°	1311.6	1313.9	1321.1	1266.5	1240.4	1226.2	1221.4	1216.7	1202.5	1181.1	1143.2
27.5°	1323.4	1325.8	1325.8	1276.0	1261.8	1252.3	1247.5	1247.5	1240.4	1214.3	1176.4
30°	1325.8	1328.2	1332.9	1299.7	1295.0	1287.9	1290.2	1287.9	1276.0	1247.5	1204.8
32.5°	1342.4	1344.8	1356.6	1313.9	1318.7	1325.8	1328.2	1325.8	1302.1	1278.4	1242.8
35°	1397.0	1394.6	1404.1	1349.5	1344.8	1347.1	1354.3	1351.9	1342.4	1321.1	1297.3
37.5°	1572.5	1572.5	1546.4	1432.5	1397.0	1392.2	1397.0	1408.8	1411.2	1392.2	1373.2
40°	1880.8	1864.2	1850.0	1603.3	1489.5	1461.0	1475.2	1482.3	1501.3	1501.3	1501.3
42.5°	2198.6	2201.0	2196.2	1868.9	1655.5	1584.3	1586.7	1603.3	1643.6	1650.7	1672.1
45°	2480.8	2497.4	2533.0	2177.3	1899.8	1740.9	1724.3	1740.9	1797.8	1845.2	1899.8
47.5°	2701.4	2682.4	2760.7	2499.8	2179.6	1954.3	1911.6	1916.4	1994.6	2070.5	2155.9
50°	2891.2	2895.9	2931.5	2829.5	2533.0	2196.2	2139.3	2129.8	2241.3	2321.9	2466.6
52.5°	3104.6	3090.4	3142.6	3118.8	2876.9	2492.7	2402.6	2374.1	2495.1	2608.9	2765.5
55°	3206.6	3220.8	3327.6	3386.8	3201.9	2758.3	2658.7	2668.2	2796.3	2917.2	3135.4
57.5°	3386.8	3401.1	3524.4	3647.7	3491.2	3040.6	2952.8	2952.8	3097.5	3232.7	3569.5
60°	3633.5	3635.9	3761.6	3975.0	3745.0	3313.3	3256.4	3254.0	3410.6	3567.1	4081.8
62.5°	3742.6	3771.1	3958.4	4235.9	4077.0	3647.7	3581.3	3600.3	3740.2	3922.9	4653.4
65°	3595.6	3657.2	4048.6	4411.4	4373.5	3996.4	3970.3	3996.4	4081.8	4278.6	5258.2
67.5°	3109.4	3192.4	3882.5	4530.0	4610.7	4399.6	4361.6	4356.9	4411.4	4632.0	5640.0
70°	2857.9	2907.8	3443.8	4575.1	4800.4	4807.5	4807.5	4776.7	4769.6	4930.9	5675.6
72.5°	2352.8	2404.9	2905.4	4323.7	4980.7	5353.0	5407.6	5293.7	5118.2	5085.0	5080.3
75°	1676.8	1714.8	2146.4	3401.1	4750.6	5877.2	5986.3	5765.7	5277.1	4748.2	3704.7
76°	1169.3	1223.8	1676.8	2905.4	4461.2	5886.7	6057.4	5801.3	5170.4	4458.9	3052.4
77.5°	592.9	611.9	970.0	1951.9	3733.1	5616.3	5782.3	5495.3	4705.5	3602.7	1937.7
80°	225.3	232.4	346.3	711.5	2049.2	4361.6	4425.7	4039.1	3114.1	1539.3	697.3
82.5°	118.6	123.3	194.5	351.0	842.0	2397.8	2706.2	2253.2	1221.4	462.5	204.0
85°	59.3	64.0	113.8	213.5	417.4	749.5	868.1	820.6	405.6	175.5	75.9
87.5°	23.7	28.5	56.9	94.9	168.4	147.0	163.7	211.1	130.4	83.0	26.1
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°	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1050.7	1048.3	1050.7	1048.3	1050.7	1050.7	1053.1	1048.3	1048.3	1053.1	1045.9
5°	1034.1	1031.7	1034.1	1038.8	1041.2	1045.9	1055.4	1053.1	1057.8	1062.5	1064.9
7.5°	1027.0	1024.6	1031.7	1034.1	1041.2	1050.7	1064.9	1074.4	1079.1	1088.6	1083.9
10°	1034.1	1034.1	1043.6	1050.7	1062.5	1074.4	1086.3	1095.7	1107.6	1114.7	1112.3
12.5°	1045.9	1043.6	1060.2	1069.7	1086.3	1098.1	1107.6	1112.3	1121.8	1131.3	1128.9
15°	1057.8	1060.2	1083.9	1102.9	1121.8	1126.6	1128.9	1124.2	1128.9	1133.7	1133.7
17.5°	1081.5	1083.9	1110.0	1131.3	1147.9	1143.2	1131.3	1119.5	1119.5	1121.8	1124.2
20°	1100.5	1105.2	1136.1	1155.0	1164.5	1145.6	1126.6	1112.3	1105.2	1107.6	1105.2
22.5°	1121.8	1131.3	1162.2	1171.6	1157.4	1133.7	1110.0	1091.0	1091.0	1093.4	1093.4
25°	1147.9	1152.7	1174.0	1169.3	1143.2	1107.6	1088.6	1081.5	1079.1	1081.5	1083.9
27.5°	1171.6	1174.0	1185.9	1152.7	1102.9	1064.9	1057.8	1060.2	1062.5	1064.9	1067.3
30°	1202.5	1207.2	1195.4	1128.9	1053.1	1010.4	1010.4	1024.6	1029.3	1036.5	1034.1
32.5°	1240.4	1245.2	1209.6	1098.1	989.0	946.3	948.7	970.0	984.3	989.0	991.4
35°	1304.5	1295.0	1219.1	1055.4	920.2	868.1	870.4	896.5	915.5	922.6	917.9
37.5°	1382.7	1380.4	1233.3	1000.9	834.9	787.4	789.8	801.6	820.6	823.0	825.4
40°	1513.2	1494.2	1257.0	929.7	749.5	704.4	699.7	706.8	704.4	709.2	711.5
42.5°	1700.5	1650.7	1287.9	849.1	673.6	626.1	621.4	609.5	595.3	581.1	574.0
45°	1921.1	1842.8	1325.8	766.1	595.3	552.6	540.8	526.5	498.1	467.2	457.7
47.5°	2205.7	2056.3	1368.5	683.1	521.8	488.6	479.1	457.7	424.5	389.0	381.9
50°	2497.4	2307.7	1411.2	614.3	462.5	443.5	434.0	412.7	370.0	336.8	329.7
52.5°	2836.6	2556.7	1456.2	552.6	410.3	410.3	403.2	370.0	329.7	298.8	294.1
55°	3227.9	2812.9	1527.4	493.3	372.4	381.9	372.4	339.2	301.2	279.9	277.5
57.5°	3695.2	3137.8	1617.5	429.3	339.2	346.3	346.3	322.6	296.5	282.2	279.9
60°	4164.8	3467.5	1674.4	381.9	313.1	320.2	334.4	322.6	306.0	298.8	296.5
62.5°	4615.4	3804.3	1577.2	341.5	287.0	308.3	343.9	346.3	329.7	332.0	332.0
65°	4952.2	4060.4	1276.0	306.0	270.4	315.4	372.4	374.7	346.3	339.2	336.8
67.5°	5068.4	4131.6	858.6	282.2	260.9	320.2	405.6	396.1	346.3	332.0	324.9
70°	4847.8	3870.7	557.4	260.9	246.7	315.4	431.7	407.9	343.9	322.6	313.1
72.5°	4065.2	3301.5	372.4	241.9	232.4	310.7	448.3	407.9	336.8	306.0	296.5
75°	2822.4	2255.5	277.5	218.2	211.1	303.6	453.0	400.8	320.2	287.0	279.9
76°	2265.0	1691.1	251.4	208.7	201.6	298.8	450.6	393.7	308.3	277.5	270.4
77.5°	1430.2	972.4	211.1	192.1	187.4	289.4	441.1	377.1	291.7	260.9	253.8
80°	500.4	355.8	161.3	156.5	158.9	268.0	415.1	343.9	258.5	230.1	220.6
82.5°	199.2	163.7	121.0	121.0	125.7	230.1	374.7	303.6	225.3	189.7	175.5
85°	78.3	71.2	85.4	85.4	90.1	187.4	313.1	237.2	154.2	118.6	113.8
87.5°	23.7	33.2	37.9	40.3	42.7	94.9	177.9	104.4	68.8	49.8	40.3
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)