

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: P594900

Luminaire Tested: **ISS-PA1F-750-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594900  
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-PA1F-750-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11392 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

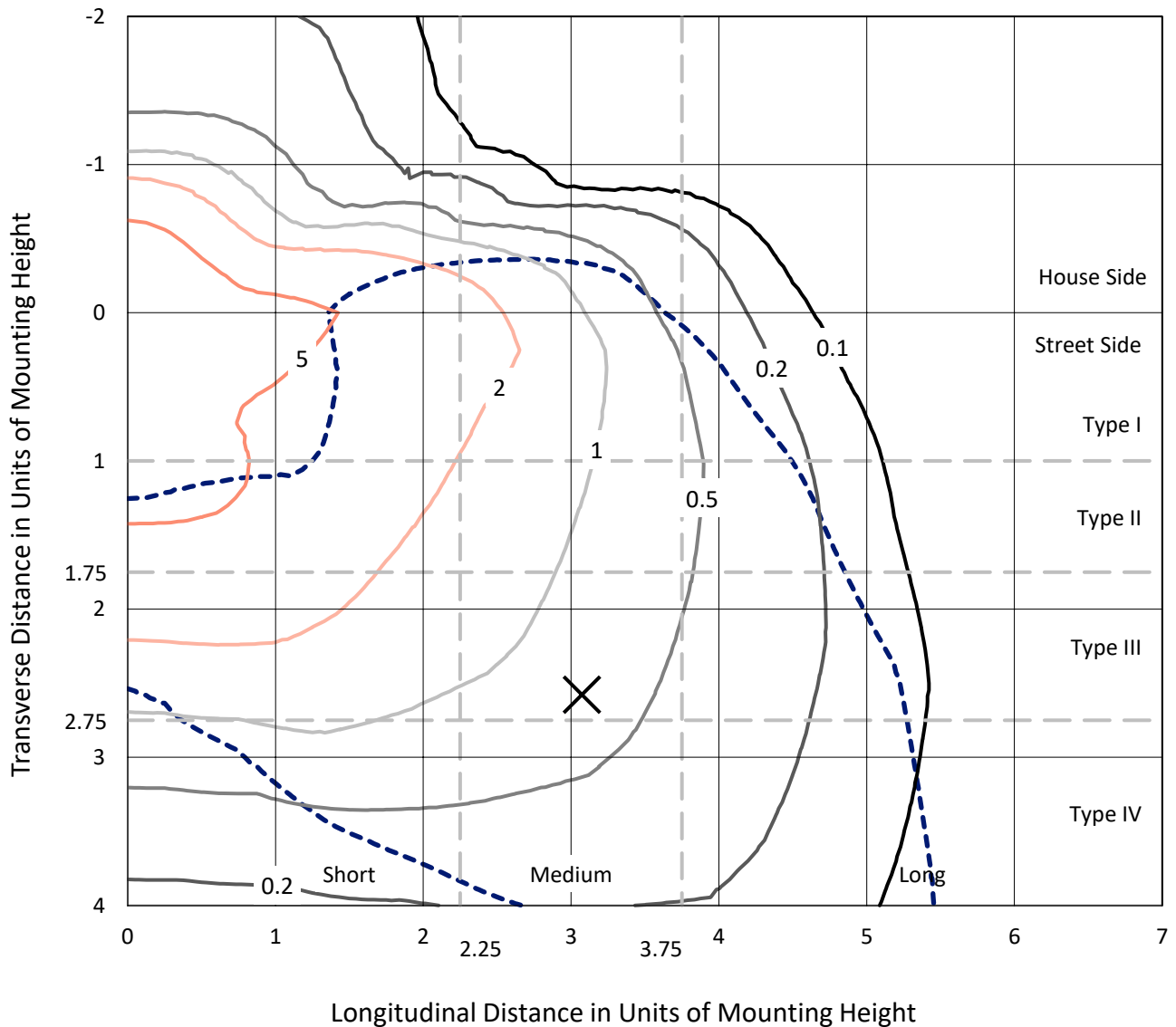
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

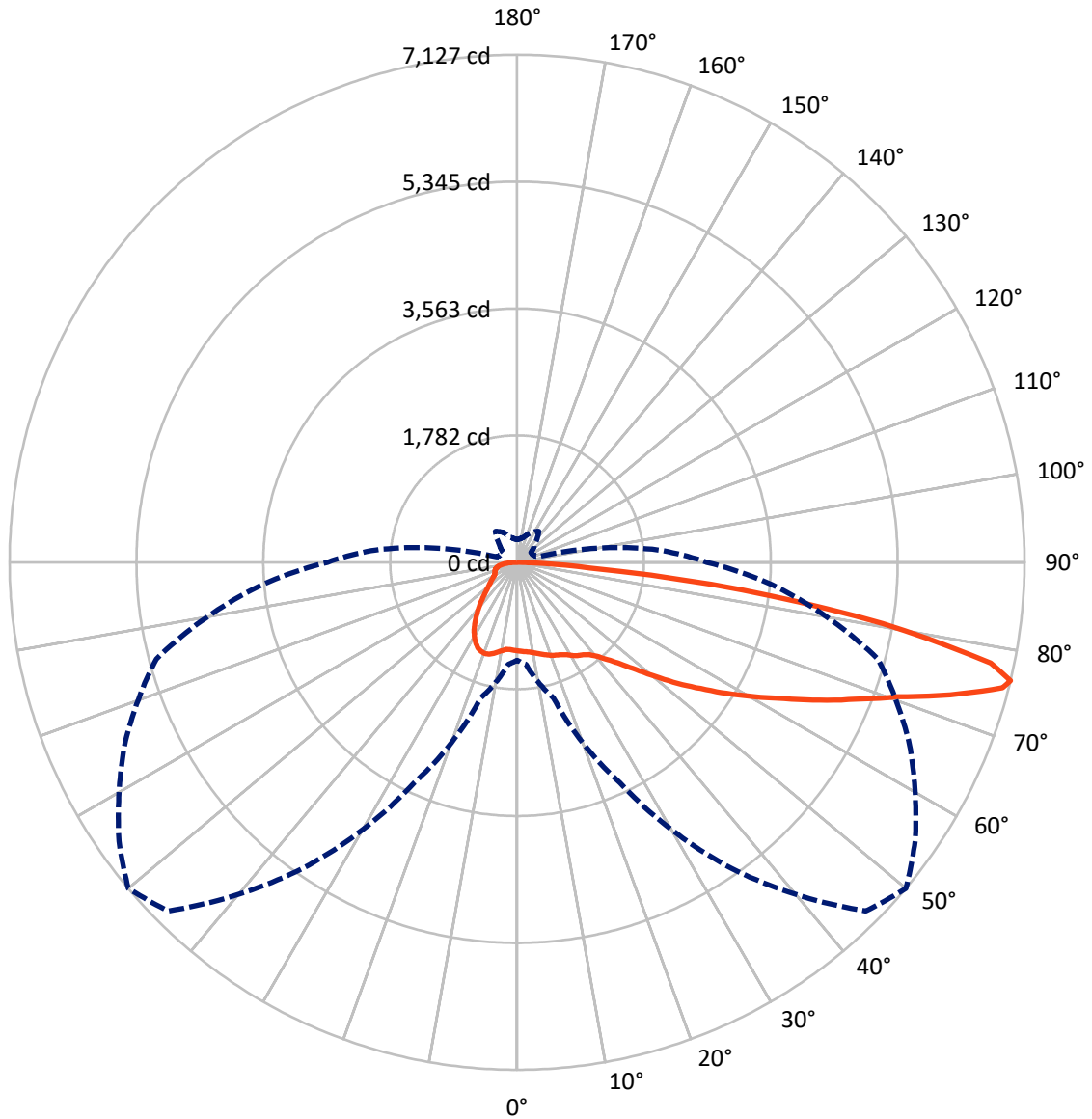
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.3 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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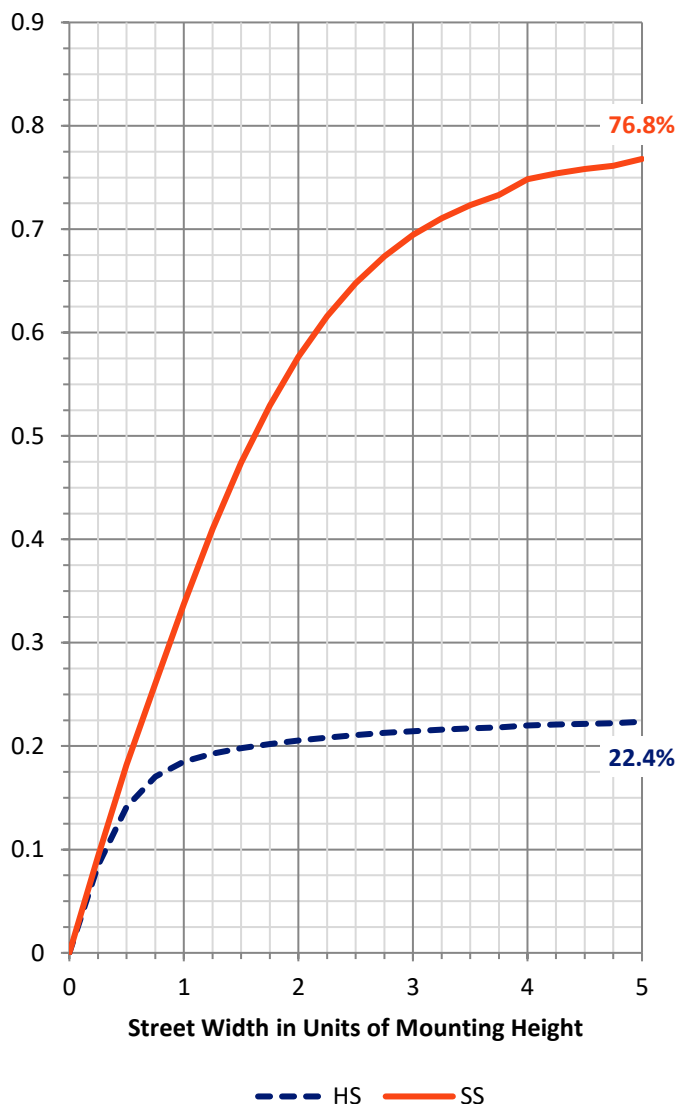
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2606.0	0.0	2606.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8786.0	0.0	8786.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	11392.0	0.0	11392.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	1.1
10°-20°	379.1	3.3
20°-30°	640.3	5.6
30°-40°	877.7	7.7
40°-50°	1292.7	11.3
50°-60°	2033.5	17.9
60°-70°	2927.1	25.7
70°-80°	2661.5	23.4
80°-90°	459.5	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°	11392.0	100.0
0°-180°	11392.0	100.0

**Coefficient of Utilization**

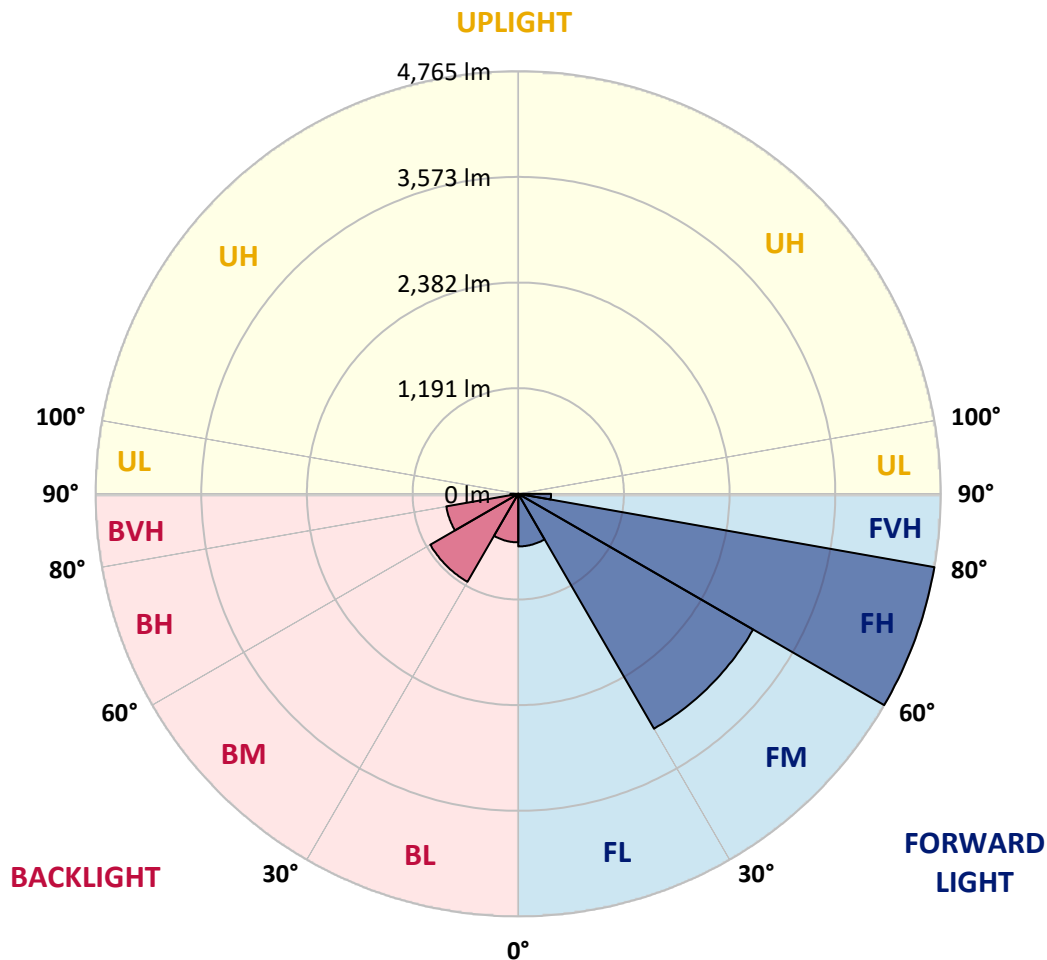


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.9	5.2			
FM (30°-60°)	3058.5	26.8			
FH (60°-80°)	4764.6	41.8			G2/5000
FVH (80°-90°)	369.8	3.2			G3/500
BL (0°-30°)	547.1	4.8	B2/1000		
BM (30°-60°)	1145.4	10.1	B2/2500		
BH (60°-80°)	823.9	7.2	B2/1000		G2/1000
BVH (80°-90°)	89.6	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°	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7
2.5°	1269.6	1269.6	1272.4	1266.8	1266.8	1252.9	1252.9	1250.1	1244.5	1241.7	1236.1
5°	1317.0	1317.0	1308.7	1294.7	1286.3	1269.6	1261.2	1255.7	1244.5	1230.5	1216.6
7.5°	1367.3	1361.7	1356.1	1333.8	1317.0	1286.3	1272.4	1264.0	1241.7	1222.2	1213.8
10°	1420.3	1411.9	1398.0	1370.1	1344.9	1308.7	1291.9	1280.8	1255.7	1238.9	1219.4
12.5°	1451.0	1451.0	1434.2	1400.8	1367.3	1322.6	1314.3	1300.3	1275.2	1252.9	1233.3
15°	1481.7	1484.5	1467.7	1428.7	1389.6	1356.1	1342.2	1333.8	1305.9	1272.4	1247.3
17.5°	1512.4	1509.6	1492.8	1448.2	1406.3	1375.6	1367.3	1356.1	1328.2	1297.5	1272.4
20°	1534.7	1529.1	1523.5	1467.7	1425.9	1406.3	1395.2	1386.8	1358.9	1325.4	1291.9
22.5°	1540.3	1545.8	1540.3	1473.3	1439.8	1417.5	1414.7	1406.3	1384.0	1353.3	1319.8
25°	1543.1	1545.8	1554.2	1490.0	1459.3	1442.6	1437.0	1431.4	1414.7	1389.6	1344.9
27.5°	1557.0	1559.8	1559.8	1501.2	1484.5	1473.3	1467.7	1467.7	1459.3	1428.7	1384.0
30°	1559.8	1562.6	1568.2	1529.1	1523.5	1515.2	1517.9	1515.2	1501.2	1467.7	1417.5
32.5°	1579.3	1582.1	1596.1	1545.8	1551.4	1559.8	1562.6	1559.8	1531.9	1504.0	1462.1
35°	1643.5	1640.7	1651.9	1587.7	1582.1	1584.9	1593.3	1590.5	1579.3	1554.2	1526.3
37.5°	1850.0	1850.0	1819.3	1685.4	1643.5	1637.9	1643.5	1657.5	1660.3	1637.9	1615.6
40°	2212.7	2193.2	2176.5	1886.3	1752.3	1718.9	1735.6	1744.0	1766.3	1766.3	1766.3
42.5°	2586.6	2589.4	2583.9	2198.8	1947.7	1863.9	1866.7	1886.3	1933.7	1942.1	1967.2
45°	2918.7	2938.2	2980.1	2561.5	2235.1	2048.1	2028.6	2048.1	2115.1	2170.9	2235.1
47.5°	3178.2	3155.9	3248.0	2941.0	2564.3	2299.2	2249.0	2254.6	2346.7	2436.0	2536.4
50°	3401.4	3407.0	3448.9	3328.9	2980.1	2583.9	2516.9	2505.7	2636.9	2731.7	2902.0
52.5°	3652.6	3635.8	3697.2	3669.3	3384.7	2932.6	2826.6	2793.1	2935.4	3069.4	3253.5
55°	3772.5	3789.3	3914.8	3984.6	3767.0	3245.2	3128.0	3139.1	3289.8	3432.1	3688.8
57.5°	3984.6	4001.4	4146.4	4291.5	4107.4	3577.2	3474.0	3474.0	3644.2	3803.2	4199.5
60°	4274.8	4277.6	4425.5	4676.6	4405.9	3898.1	3831.1	3828.3	4012.5	4196.7	4802.2
62.5°	4403.2	4436.6	4657.1	4983.6	4796.6	4291.5	4213.4	4235.7	4400.4	4615.2	5474.7
65°	4230.2	4302.7	4763.1	5190.0	5145.4	4701.7	4671.0	4701.7	4802.2	5033.8	6186.2
67.5°	3658.1	3755.8	4567.8	5329.6	5424.4	5176.1	5131.4	5125.9	5190.0	5449.5	6635.4
70°	3362.4	3421.0	4051.6	5382.6	5647.7	5656.0	5656.0	5619.7	5611.4	5801.1	6677.3
72.5°	2768.0	2829.4	3418.2	5086.8	5859.7	6297.8	6362.0	6228.0	6021.6	5982.5	5976.9
75°	1972.8	2017.4	2525.3	4001.4	5589.1	6914.5	7042.8	6783.3	6208.5	5586.3	4358.5
76°	1375.6	1439.8	1972.8	3418.2	5248.6	6925.6	7126.5	6825.2	6082.9	5245.8	3591.2
77.5°	697.6	719.9	1141.2	2296.5	4392.0	6607.5	6802.9	6465.2	5536.0	4238.5	2279.7
80°	265.1	273.5	407.4	837.1	2410.9	5131.4	5206.8	4752.0	3663.7	1810.9	820.4
82.5°	139.5	145.1	228.8	413.0	990.6	2821.0	3183.8	2650.8	1437.0	544.1	240.0
85°	69.8	75.3	133.9	251.1	491.1	881.7	1021.3	965.5	477.1	206.5	89.3
87.5°	27.9	33.5	67.0	111.6	198.1	173.0	192.5	248.3	153.5	97.7	30.7
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°	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7
2.5°	1236.1	1233.3	1236.1	1233.3	1236.1	1236.1	1238.9	1233.3	1233.3	1238.9	1230.5
5°	1216.6	1213.8	1216.6	1222.2	1225.0	1230.5	1241.7	1238.9	1244.5	1250.1	1252.9
7.5°	1208.2	1205.4	1213.8	1216.6	1225.0	1236.1	1252.9	1264.0	1269.6	1280.8	1275.2
10°	1216.6	1216.6	1227.8	1236.1	1250.1	1264.0	1278.0	1289.1	1303.1	1311.5	1308.7
12.5°	1230.5	1227.8	1247.3	1258.4	1278.0	1291.9	1303.1	1308.7	1319.8	1331.0	1328.2
15°	1244.5	1247.3	1275.2	1297.5	1319.8	1325.4	1328.2	1322.6	1328.2	1333.8	1333.8
17.5°	1272.4	1275.2	1305.9	1331.0	1350.5	1344.9	1331.0	1317.0	1317.0	1319.8	1322.6
20°	1294.7	1300.3	1336.6	1358.9	1370.1	1347.7	1325.4	1308.7	1300.3	1303.1	1300.3
22.5°	1319.8	1331.0	1367.3	1378.4	1361.7	1333.8	1305.9	1283.6	1283.6	1286.3	1286.3
25°	1350.5	1356.1	1381.2	1375.6	1344.9	1303.1	1280.8	1272.4	1269.6	1272.4	1275.2
27.5°	1378.4	1381.2	1395.2	1356.1	1297.5	1252.9	1244.5	1247.3	1250.1	1252.9	1255.7
30°	1414.7	1420.3	1406.3	1328.2	1238.9	1188.7	1188.7	1205.4	1211.0	1219.4	1216.6
32.5°	1459.3	1464.9	1423.1	1291.9	1163.6	1113.3	1116.1	1141.2	1158.0	1163.6	1166.4
35°	1534.7	1523.5	1434.2	1241.7	1082.7	1021.3	1024.1	1054.7	1077.1	1085.4	1079.9
37.5°	1626.8	1624.0	1451.0	1177.5	982.2	926.4	929.2	943.1	965.5	968.2	971.0
40°	1780.2	1757.9	1478.9	1093.8	881.7	828.7	823.2	831.5	828.7	834.3	837.1
42.5°	2000.7	1942.1	1515.2	998.9	792.5	736.7	731.1	717.1	700.4	683.6	675.3
45°	2260.2	2168.1	1559.8	901.3	700.4	650.1	636.2	619.5	586.0	549.7	538.5
47.5°	2595.0	2419.2	1610.0	803.6	613.9	574.8	563.6	538.5	499.5	457.6	449.2
50°	2938.2	2715.0	1660.3	722.7	544.1	521.8	510.6	485.5	435.3	396.2	387.9
52.5°	3337.2	3008.0	1713.3	650.1	482.7	482.7	474.4	435.3	387.9	351.6	346.0
55°	3797.7	3309.3	1797.0	580.4	438.1	449.2	438.1	399.0	354.4	329.3	326.5
57.5°	4347.4	3691.6	1903.0	505.1	399.0	407.4	407.4	379.5	348.8	332.1	329.3
60°	4899.8	4079.5	1970.0	449.2	368.3	376.7	393.4	379.5	360.0	351.6	348.8
62.5°	5430.0	4475.7	1855.6	401.8	337.6	362.7	404.6	407.4	387.9	390.6	390.6
65°	5826.2	4777.1	1501.2	360.0	318.1	371.1	438.1	440.9	407.4	399.0	396.2
67.5°	5963.0	4860.8	1010.1	332.1	306.9	376.7	477.1	466.0	407.4	390.6	382.3
70°	5703.5	4553.8	655.7	306.9	290.2	371.1	507.8	479.9	404.6	379.5	368.3
72.5°	4782.6	3884.2	438.1	284.6	273.5	365.5	527.4	479.9	396.2	360.0	348.8
75°	3320.5	2653.6	326.5	256.7	248.3	357.2	533.0	471.6	376.7	337.6	329.3
76°	2664.8	1989.5	295.8	245.6	237.2	351.6	530.2	463.2	362.7	326.5	318.1
77.5°	1682.6	1144.0	248.3	226.0	220.4	340.4	519.0	443.7	343.2	306.9	298.6
80°	588.8	418.6	189.7	184.2	187.0	315.3	488.3	404.6	304.1	270.7	259.5
82.5°	234.4	192.5	142.3	142.3	147.9	270.7	440.9	357.2	265.1	223.2	206.5
85°	92.1	83.7	100.5	100.5	106.0	220.4	368.3	279.0	181.4	139.5	133.9
87.5°	27.9	39.1	44.6	47.4	50.2	111.6	209.3	122.8	80.9	58.6	47.4
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)