

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: P200150

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL4-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9755.9 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

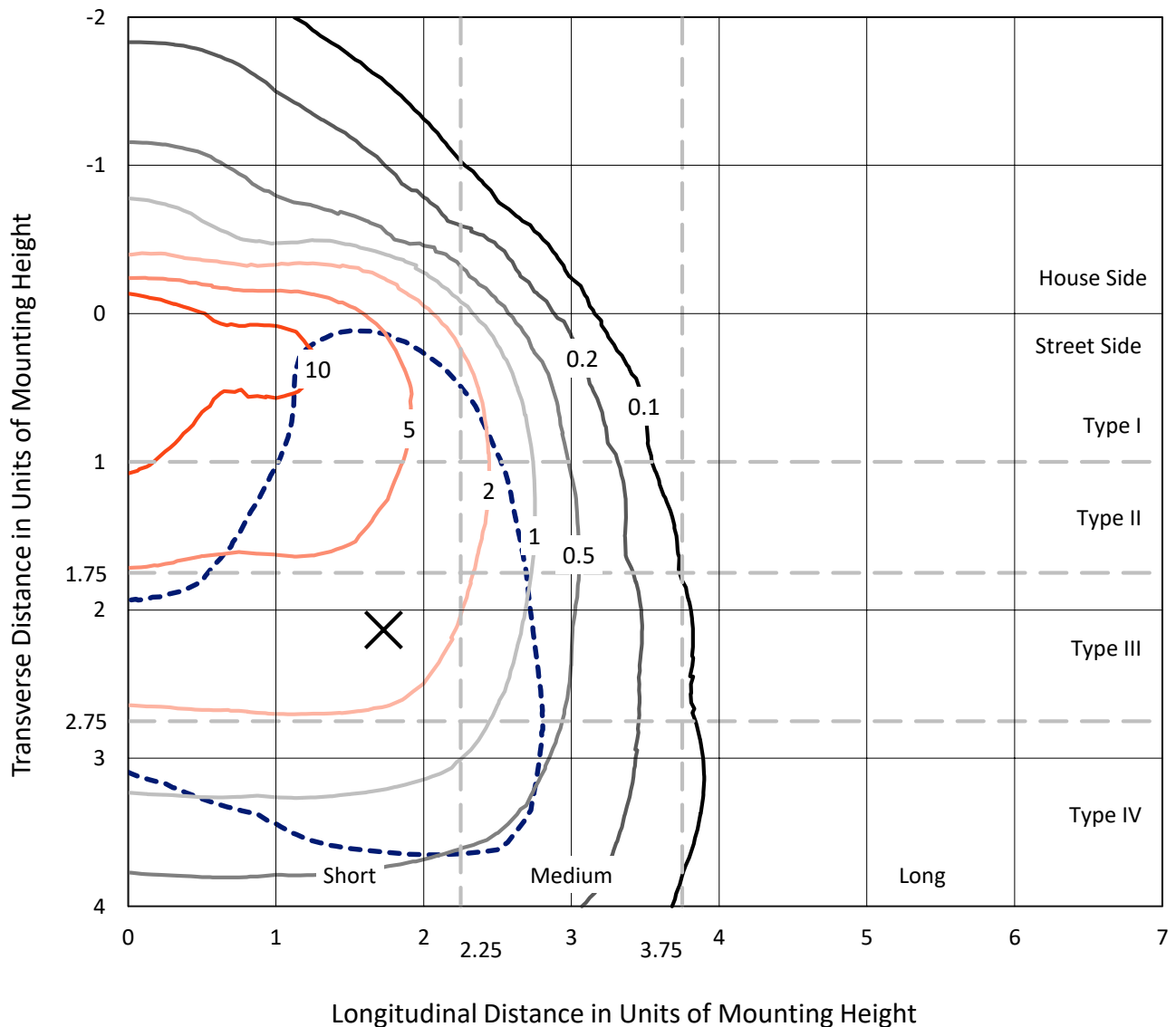
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

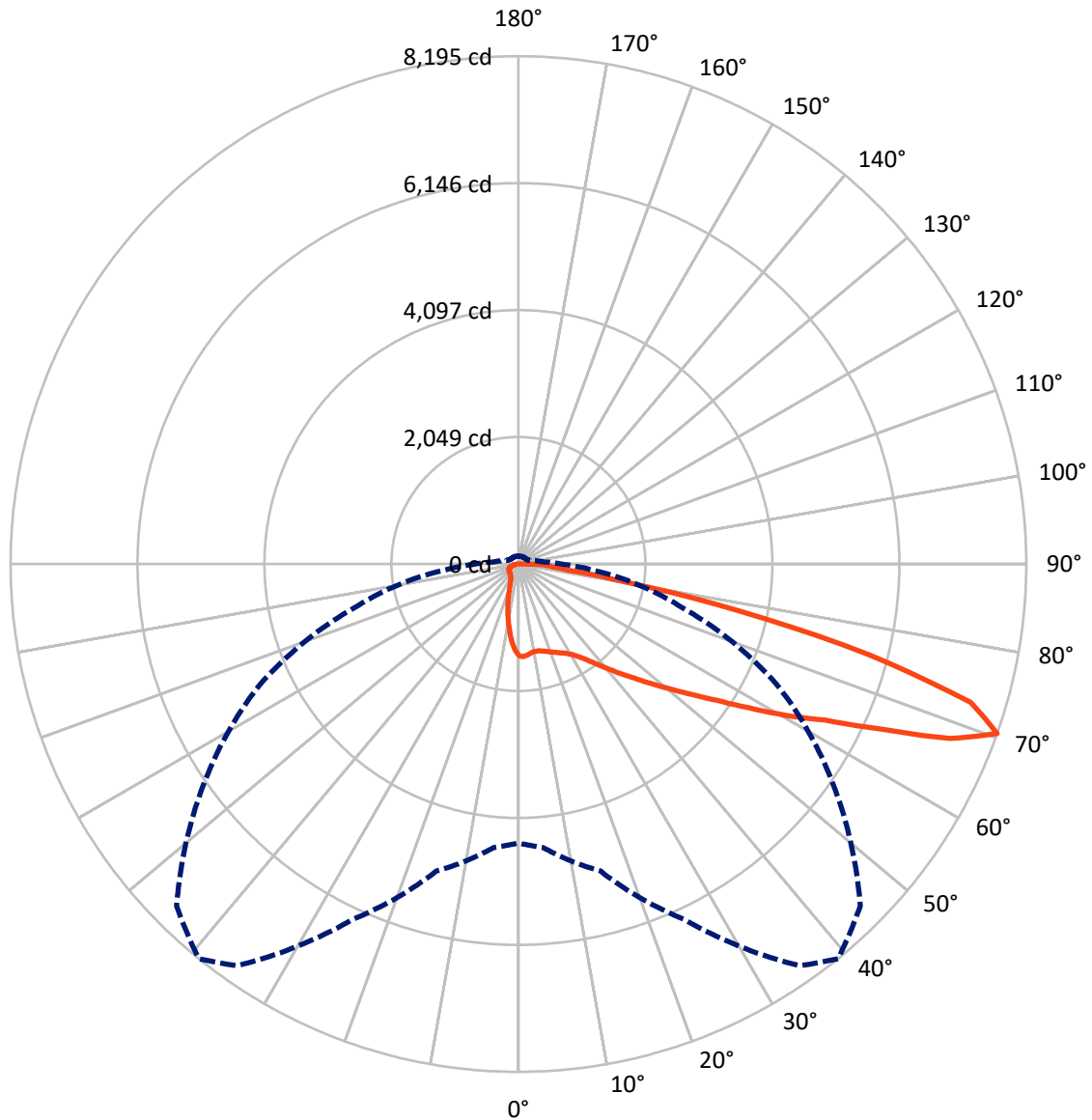
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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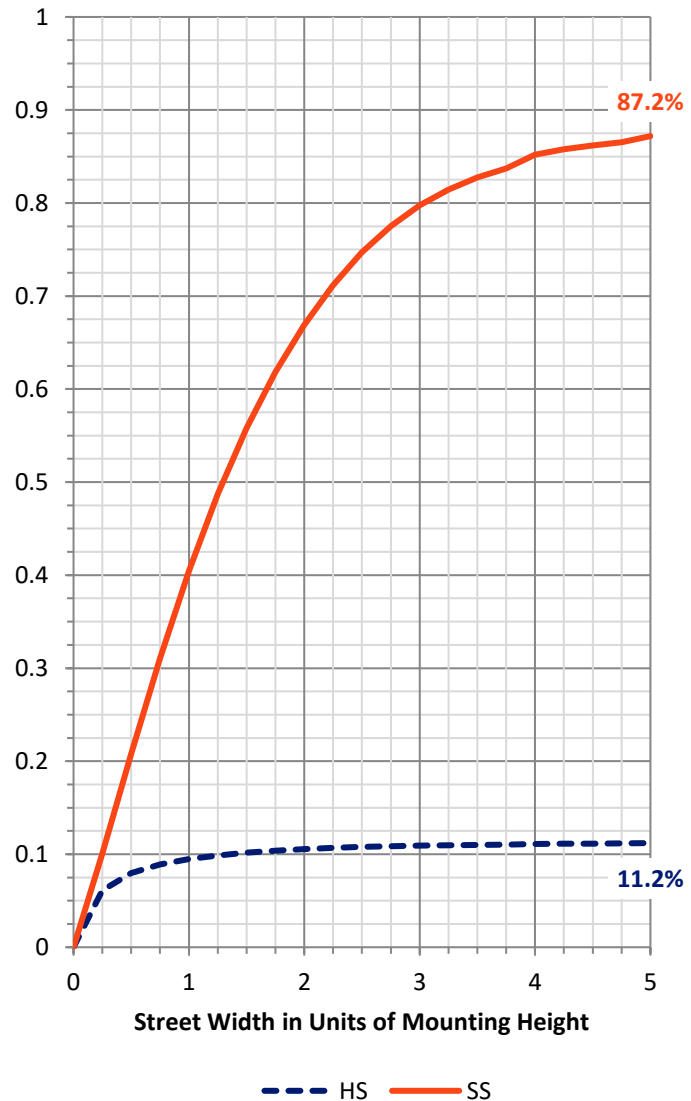
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1109.6	0.0	1109.6
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	8646.3	0.0	8646.3
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	9755.9	0.0	9755.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	1.3
10°-20°	317.7	3.3
20°-30°	494.7	5.1
30°-40°	770.6	7.9
40°-50°	1293.8	13.3
50°-60°	2055.3	21.1
60°-70°	2741.5	28.1
70°-80°	1655.5	17.0
80°-90°	299.6	3.1
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°	9755.9	100.0
0°-180°	9755.9	100.0



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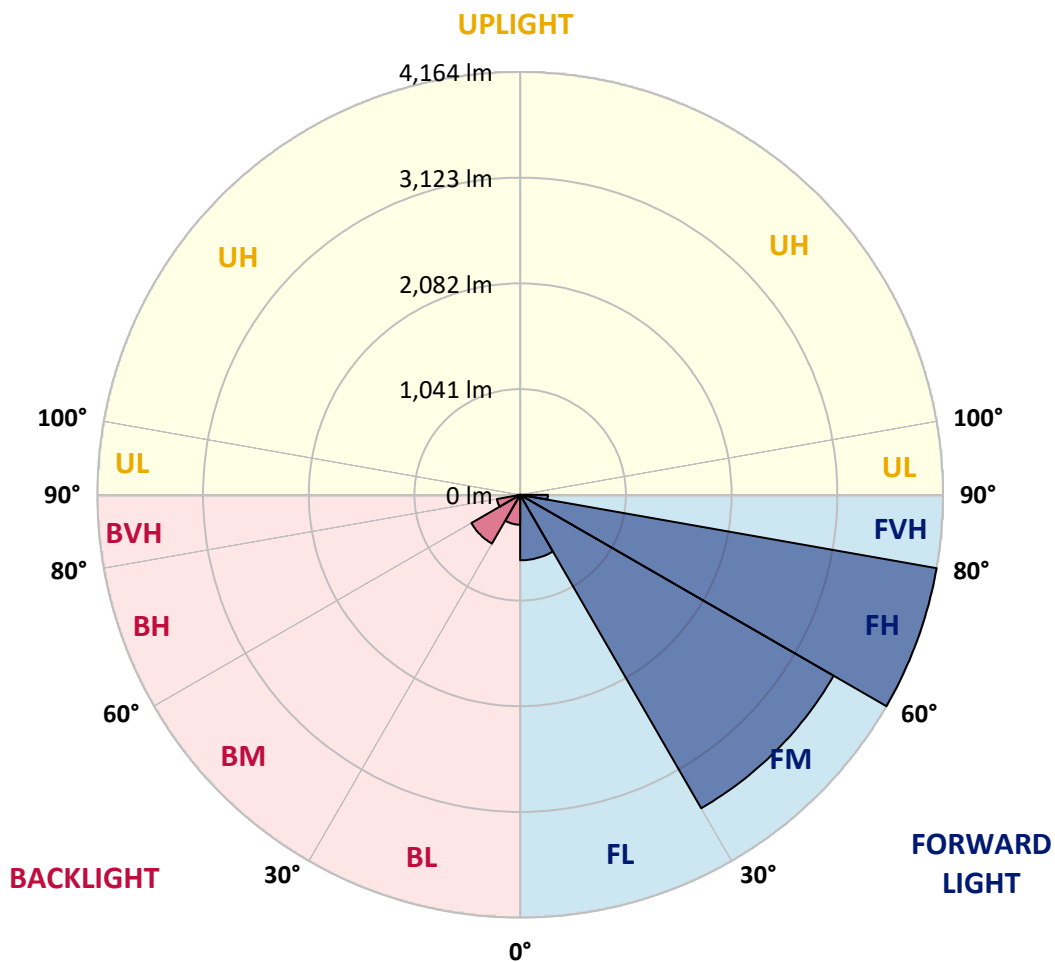
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	645.2	6.6			
FM	(30°-60°)	3564.4	36.5			
FH	(60°-80°)	4164.1	42.7			G2/5000
FVH	(80°-90°)	272.6	2.8			G3/500
BL	(0°-30°)	294.4	3.0	B1/500		
BM	(30°-60°)	555.3	5.7	B1/1000		
BH	(60°-80°)	232.9	2.4	B1/500		G1/500
BVH	(80°-90°)	27.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1509.9	1509.4	1505.4	1502.4	1500.0	1498.9	1501.0	1493.5	1487.1	1479.1	1470.7
5°	1498.4	1498.0	1491.5	1485.5	1479.6	1477.7	1477.1	1463.7	1455.8	1443.9	1428.0
7.5°	1486.0	1483.6	1475.1	1465.2	1454.8	1449.8	1444.9	1427.5	1418.6	1406.7	1388.3
10°	1473.2	1470.2	1462.2	1452.3	1442.4	1435.0	1426.5	1409.6	1400.2	1391.3	1370.0
12.5°	1459.8	1457.3	1455.4	1450.9	1443.9	1437.5	1431.0	1416.6	1406.7	1396.2	1371.5
15°	1457.8	1456.8	1461.3	1464.3	1460.3	1456.3	1449.3	1436.9	1426.5	1416.1	1383.8
17.5°	1473.7	1473.2	1484.6	1492.5	1490.5	1483.6	1474.2	1460.3	1451.9	1442.9	1402.8
20°	1508.3	1510.9	1524.7	1535.1	1525.2	1515.3	1500.0	1480.6	1476.1	1472.1	1422.1
22.5°	1573.8	1576.4	1586.3	1590.2	1564.4	1550.1	1528.7	1503.9	1501.0	1503.9	1445.4
25°	1676.0	1673.5	1672.0	1657.2	1610.0	1587.7	1560.4	1534.6	1536.2	1549.6	1478.2
27.5°	1811.4	1798.0	1777.2	1732.6	1657.7	1632.8	1599.7	1575.9	1585.3	1611.0	1527.3
30°	1951.8	1937.0	1888.8	1815.9	1720.2	1692.9	1655.6	1628.9	1653.7	1694.4	1592.7
32.5°	2081.8	2079.8	2009.4	1915.6	1806.4	1782.7	1745.5	1715.2	1755.4	1817.4	1690.9
35°	2223.6	2228.1	2143.8	2031.2	1923.0	1898.3	1871.5	1848.7	1902.2	1987.5	1833.2
37.5°	2375.4	2384.3	2284.7	2157.6	2055.9	2045.6	2029.6	2019.7	2102.6	2220.6	2032.2
40°	2578.2	2569.3	2430.9	2300.5	2219.2	2218.7	2213.7	2225.6	2363.5	2525.2	2287.6
42.5°	2795.5	2769.2	2586.2	2453.8	2398.2	2415.1	2425.0	2473.6	2677.5	2895.3	2599.1
45°	3029.7	2970.6	2747.4	2616.0	2597.2	2632.9	2666.5	2772.2	3047.0	3316.3	2940.4
47.5°	3216.7	3159.6	2914.1	2786.1	2827.2	2881.3	2946.3	3113.5	3460.6	3751.4	3277.1
50°	3364.0	3326.7	3082.3	2984.5	3080.7	3164.1	3270.2	3499.8	3891.2	4175.0	3589.1
52.5°	3506.8	3479.1	3251.9	3187.9	3378.3	3493.4	3637.7	3914.5	4332.7	4591.6	3851.5
55°	3635.8	3615.9	3434.4	3441.3	3728.6	3878.3	4059.9	4386.7	4813.8	4963.2	4073.8
57.5°	3781.1	3755.8	3642.7	3759.2	4178.4	4372.8	4608.9	4917.4	5265.1	5293.5	4242.9
60°	3927.4	3905.6	3873.8	4126.4	4749.9	4954.2	5177.9	5431.9	5723.0	5549.9	4233.0
62.5°	4054.4	4056.9	4113.0	4511.7	5309.3	5545.9	5818.7	6069.7	6137.2	5594.5	3919.9
65°	4269.7	4308.9	4476.0	5057.4	6097.0	6413.5	6748.3	6708.1	6251.8	5177.4	3248.9
67.5°	4525.6	4594.6	4933.4	5784.5	7092.5	7512.7	7642.1	6852.4	5793.0	4208.6	2315.9
70°	4499.9	4594.6	5130.7	6326.6	7912.9	8194.7	7801.7	6201.6	4600.0	2749.4	1230.1
72.5°	3995.9	4131.3	4728.5	6078.2	7654.4	7629.7	6773.1	4623.3	2733.0	1104.2	480.7
75°	3045.5	3182.4	3696.3	4801.9	6049.8	5841.6	4805.8	2554.0	1037.2	438.4	303.1
77.5°	1751.9	1858.1	2254.9	2944.9	3838.1	3624.3	2675.0	1135.9	504.9	305.6	236.6
80°	978.1	1037.2	1278.2	1494.0	1880.9	1724.2	1196.9	705.8	377.0	221.7	182.5
82.5°	773.2	825.8	1033.7	942.4	859.1	792.6	687.4	628.4	301.1	139.8	109.1
85°	675.6	725.7	874.9	742.0	586.8	538.2	558.5	618.6	234.2	84.3	93.3
87.5°	625.9	692.9	779.7	571.9	456.8	404.8	515.4	678.0	75.4	52.6	37.7
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°	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1463.2	1455.4	1442.4	1431.0	1413.1	1403.7	1393.3	1385.9	1379.9	1374.9	1382.9
5°	1418.1	1403.2	1376.0	1346.7	1311.9	1284.7	1261.8	1240.5	1225.6	1215.8	1222.6
7.5°	1375.5	1351.1	1308.5	1255.4	1195.9	1145.3	1103.7	1066.9	1041.7	1025.3	1031.7
10°	1351.1	1320.8	1255.0	1171.6	1083.8	1004.9	939.5	882.9	843.7	821.4	824.9
12.5°	1345.2	1306.0	1214.8	1100.2	980.1	870.5	778.3	699.9	644.8	616.0	617.0
15°	1349.7	1299.6	1177.0	1031.7	879.9	741.5	626.5	531.2	467.3	434.5	434.0
17.5°	1357.0	1294.5	1137.3	957.8	778.3	617.6	489.1	395.8	339.3	313.0	311.0
20°	1365.0	1286.7	1092.7	877.9	672.6	502.5	382.9	310.1	274.3	259.9	258.9
22.5°	1376.5	1279.7	1046.6	793.6	569.0	409.2	315.0	265.9	247.0	239.6	238.6
25°	1394.8	1276.2	997.5	705.8	475.7	342.3	274.3	244.1	233.1	228.1	227.7
27.5°	1425.6	1281.2	951.3	620.5	399.8	297.1	251.4	233.1	225.2	220.8	220.2
30°	1465.2	1296.6	902.8	539.7	340.7	266.4	237.6	225.7	219.2	214.8	214.8
32.5°	1531.2	1322.4	851.6	469.7	298.6	245.0	227.2	219.2	213.8	210.3	209.8
35°	1628.4	1371.0	804.0	411.7	268.3	229.7	218.2	212.3	208.4	206.3	206.3
37.5°	1769.8	1447.9	761.9	370.0	250.0	219.2	209.8	205.3	202.9	202.9	202.9
40°	1959.8	1554.0	727.6	342.3	239.6	211.8	203.4	199.9	198.5	198.9	198.9
42.5°	2194.3	1691.9	704.8	322.9	234.7	207.4	198.9	195.9	194.5	194.0	194.5
45°	2461.7	1848.7	702.4	308.5	229.7	204.4	195.9	192.9	190.0	188.0	188.0
47.5°	2721.7	2007.8	722.7	303.5	224.2	200.9	193.4	190.5	186.0	181.6	181.6
50°	2951.3	2143.3	749.9	305.6	222.2	195.9	189.5	188.0	181.1	176.0	175.5
52.5°	3133.8	2247.4	772.3	311.5	224.2	192.4	184.5	185.1	177.6	172.2	171.7
55°	3280.1	2315.9	766.3	317.4	228.6	190.5	180.0	181.1	175.1	169.6	169.6
57.5°	3344.1	2290.6	700.4	312.5	232.1	191.0	176.6	180.6	175.5	170.6	170.6
60°	3206.7	2065.8	576.8	290.6	227.7	189.5	175.1	182.5	182.1	177.1	176.6
62.5°	2791.0	1663.6	447.4	258.4	212.3	182.1	171.1	182.1	187.5	186.0	185.5
65°	2151.2	1185.0	341.8	223.7	191.5	169.6	160.7	170.6	178.1	180.0	179.5
67.5°	1396.2	726.2	263.4	191.0	168.2	155.3	147.3	151.8	153.2	153.2	152.3
70°	686.5	390.9	209.8	160.7	144.3	139.8	135.4	132.9	130.4	128.5	128.5
72.5°	338.8	255.4	172.6	136.0	124.5	122.5	121.5	118.6	116.5	114.1	113.1
75°	250.5	207.9	146.8	114.6	107.1	105.2	107.1	104.6	104.1	102.2	101.2
77.5°	205.8	177.1	126.4	98.2	91.8	88.3	91.2	91.8	92.3	89.3	88.3
80°	167.2	149.8	105.7	81.3	75.4	72.9	74.9	78.9	79.9	75.4	73.4
82.5°	120.5	122.5	85.3	63.5	58.5	56.6	60.6	65.5	66.5	60.0	58.5
85°	101.2	102.2	65.5	45.1	40.2	37.2	43.7	48.6	52.1	45.6	44.2
87.5°	42.1	60.0	37.7	25.3	22.3	19.3	23.3	25.8	31.2	28.7	28.2
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)