

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: P650762

Luminaire Tested: **GALN-SA2C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10137.4 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

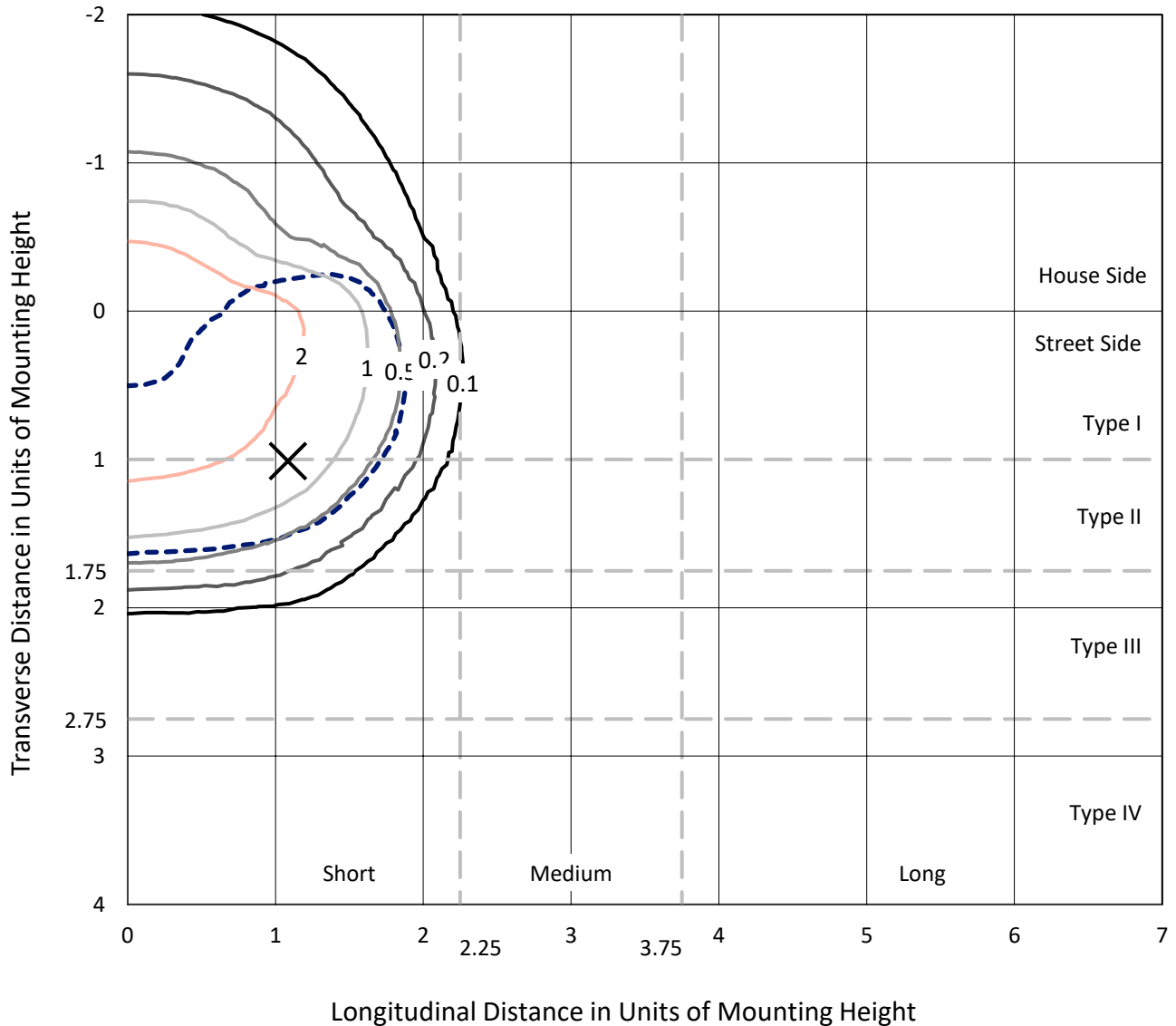
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650762  
 CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

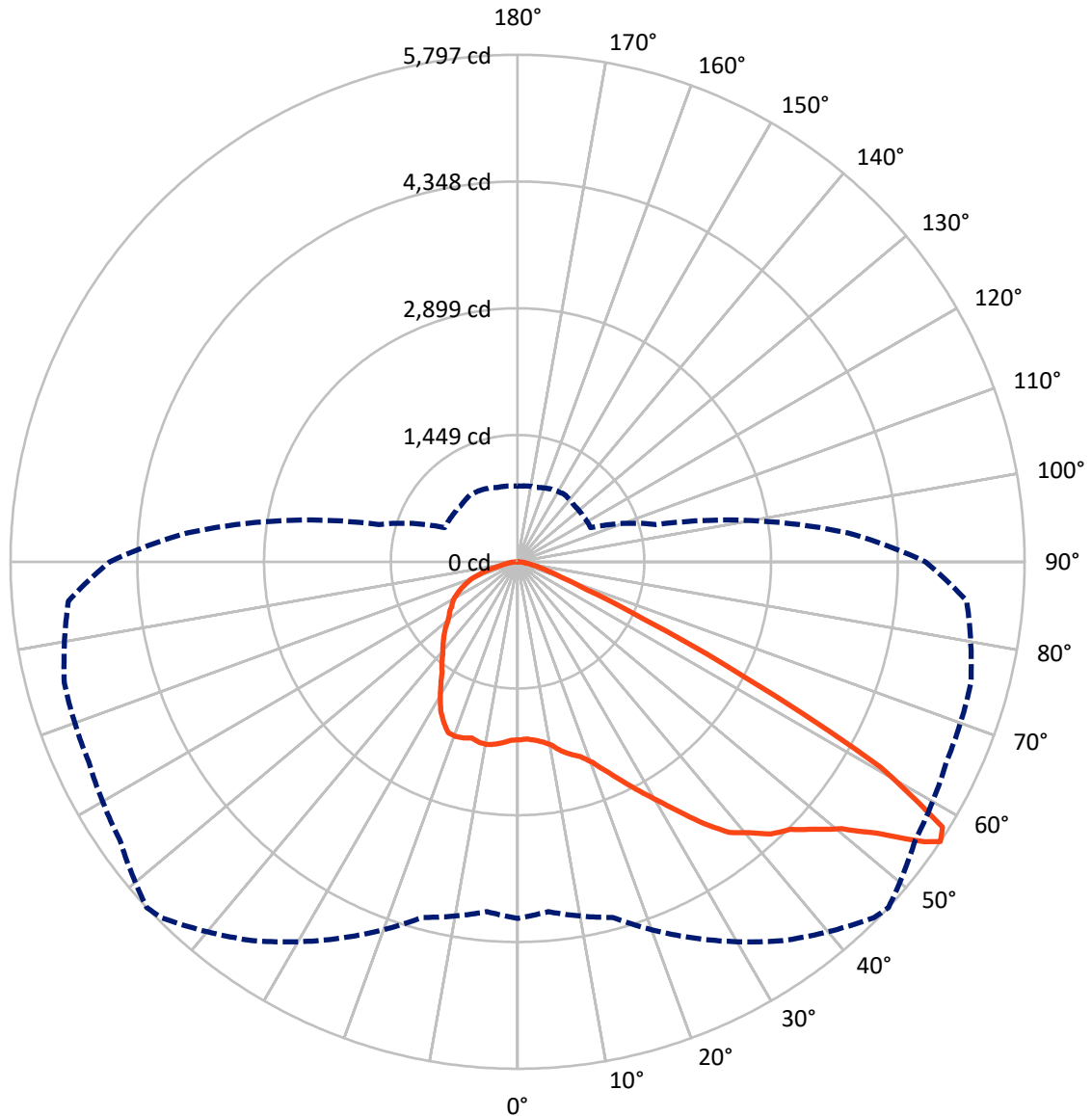
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P650762  
CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P650762  
 CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSWH

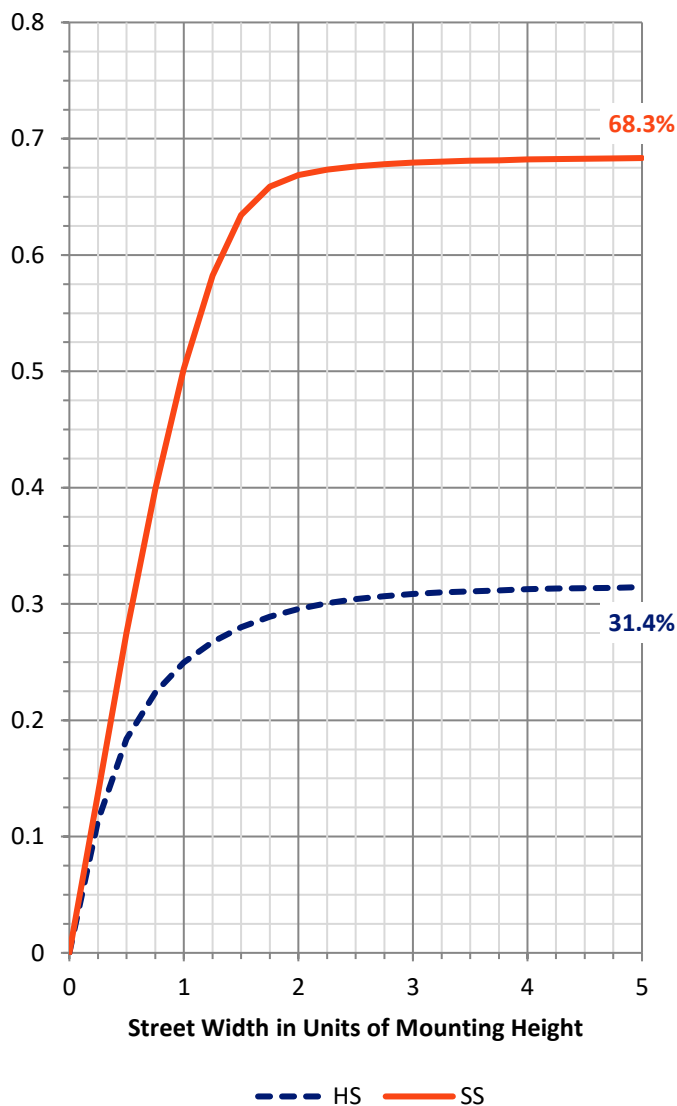
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3212.4	0.0	3212.4
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	6925.0	0.0	6925.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	10137.4	0.0	10137.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.4	2.0
10°-20°	625.9	6.2
20°-30°	1106.4	10.9
30°-40°	1661.8	16.4
40°-50°	2280.7	22.5
50°-60°	2717.1	26.8
60°-70°	1162.8	11.5
70°-80°	329.1	3.2
80°-90°	55.4	0.5
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°	10137.4	100.0
0°-180°	10137.4	100.0

**Coefficient of Utilization**



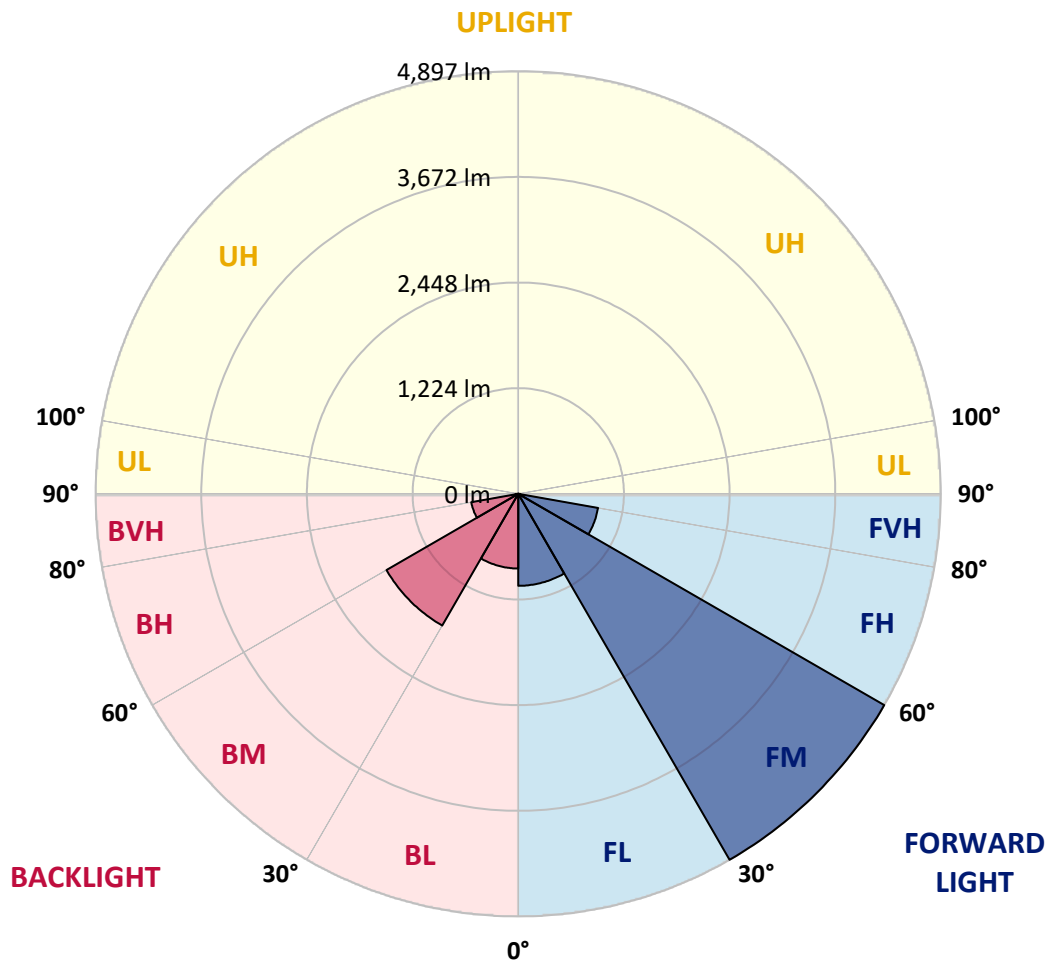
REPORT NUMBER: P650762  
 CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.8	10.5			
FM (30°-60°)	4896.6	48.3			
FH (60°-80°)	939.1	9.3			G1/1800
FVH (80°-90°)	23.5	0.2			G1/100
BL (0°-30°)	864.9	8.5	B2/1000		
BM (30°-60°)	1762.9	17.4	B2/2500		
BH (60°-80°)	552.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	31.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P650762

CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3
2.5°	2028.6	2024.6	2022.1	2042.8	2035.0	2036.3	2028.6	2036.3	2041.4	2029.8	2046.7
5°	2024.6	2036.3	2026.0	2032.4	2049.3	2044.1	2049.3	2064.7	2060.9	2057.0	2051.8
7.5°	2060.9	2062.1	2070.0	2072.5	2077.7	2072.5	2080.3	2094.5	2090.6	2068.6	2071.2
10°	2112.6	2115.2	2116.5	2130.7	2139.8	2141.0	2131.9	2119.1	2117.7	2147.5	2126.8
12.5°	2172.1	2165.6	2181.1	2186.3	2196.6	2208.2	2219.9	2192.7	2209.6	2210.8	2186.3
15°	2258.7	2265.1	2247.1	2247.1	2250.9	2252.2	2284.5	2271.6	2269.0	2254.8	2265.1
17.5°	2387.9	2344.0	2342.7	2324.6	2322.0	2332.3	2344.0	2354.4	2389.3	2360.9	2305.2
20°	2482.4	2492.7	2455.2	2433.2	2437.1	2460.3	2448.7	2495.2	2519.8	2473.3	2419.0
22.5°	2649.2	2614.2	2623.2	2574.1	2578.0	2602.6	2601.3	2649.2	2663.4	2589.7	2510.8
25°	2761.6	2752.6	2760.3	2721.6	2726.7	2746.1	2777.2	2856.0	2832.7	2751.2	2569.0
27.5°	2925.8	2907.7	2901.3	2887.0	2881.9	2933.6	2969.7	3053.8	3037.0	2918.0	2672.4
30°	3093.9	3082.3	3088.7	3030.5	3051.2	3161.2	3171.5	3286.5	3278.7	3069.3	2787.5
32.5°	3210.3	3216.7	3228.3	3196.1	3287.8	3375.7	3410.7	3541.2	3547.7	3329.2	3009.9
35°	3397.7	3375.7	3382.2	3419.7	3462.3	3622.7	3679.5	3766.2	3820.5	3602.0	3223.1
37.5°	3515.4	3538.7	3511.5	3571.0	3682.2	3874.8	3926.5	4015.7	4072.6	3870.9	3514.0
40°	3699.0	3661.5	3680.9	3723.5	3837.3	4088.1	4073.9	4165.7	4183.8	4099.7	3785.6
42.5°	3896.8	3878.7	3851.5	3948.5	4044.1	4226.4	4254.9	4212.2	4304.0	4323.4	4173.5
45°	4133.3	4155.4	4159.2	4161.8	4245.9	4404.9	4366.1	4328.6	4434.6	4575.5	4413.9
47.5°	4353.2	4283.3	4333.8	4403.6	4522.6	4523.8	4569.1	4479.8	4592.4	4717.8	4631.1
50°	4426.9	4393.2	4460.5	4592.4	4776.0	4795.3	4800.5	4673.8	4732.0	4831.5	4706.2
52.5°	4398.4	4386.7	4558.7	4763.0	5032.0	5130.2	5156.0	4999.6	5032.0	4986.7	4871.6
55°	4262.7	4297.6	4470.8	4887.1	5299.6	5603.4	5652.5	5454.7	5249.1	5284.0	5157.3
56°	4076.5	4015.7	4209.6	4746.2	5287.9	5757.2	5797.3	5550.3	5410.7	5365.5	5154.7
57.5°	3458.4	3379.6	3634.3	4270.4	4994.4	5699.0	5728.8	5590.5	5383.6	5291.8	4778.5
60°	2024.6	2063.5	2386.7	2945.2	3852.8	4672.5	4772.1	4872.9	4734.6	4323.4	3556.8
62.5°	977.4	952.9	1184.3	1688.5	2347.9	2982.7	2952.9	3236.1	3391.2	3071.9	2245.7
65°	512.0	509.4	646.5	921.8	1290.3	1567.0	1594.1	1746.7	1960.0	1582.5	1140.3
67.5°	376.3	386.6	455.1	647.7	830.1	846.8	842.9	919.2	939.9	795.2	700.7
70°	294.8	300.0	350.4	492.6	618.0	553.4	541.7	550.8	611.6	637.4	606.4
72.5°	213.4	218.5	261.1	332.3	386.6	377.5	385.3	435.7	510.7	537.8	505.5
75°	142.2	146.1	169.4	203.0	228.8	246.9	261.1	319.3	389.1	404.7	389.1
77.5°	98.2	102.1	117.7	143.5	146.1	157.8	162.9	190.1	232.7	252.1	241.8
80°	55.6	55.6	63.3	73.7	90.5	106.1	108.6	130.6	150.0	162.9	165.5
82.5°	25.8	27.2	33.6	45.2	59.5	73.7	76.3	90.5	104.7	117.7	121.5
85°	13.0	14.2	19.4	27.2	36.2	44.0	42.6	44.0	46.5	44.0	45.2
87.5°	3.9	3.9	5.1	6.5	5.1	6.5	6.5	7.7	9.1	10.3	11.6
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: P650762

CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3
2.5°	2047.9	2051.8	2026.0	2050.5	2041.4	2040.2	2058.3	2055.7	2062.1	2059.6	2044.1
5°	2049.3	2040.2	2067.3	2042.8	2054.4	2079.0	2062.1	2100.9	2081.6	2094.5	2066.0
7.5°	2089.3	2091.9	2086.7	2097.0	2091.9	2103.5	2094.5	2103.5	2088.0	2089.3	2115.2
10°	2124.2	2116.5	2125.5	2112.6	2121.6	2117.7	2097.0	2090.6	2095.8	2089.3	2106.1
12.5°	2188.9	2174.7	2168.2	2152.6	2142.3	2103.5	2071.2	2053.1	2077.7	2081.6	2073.8
15°	2254.8	2256.1	2226.4	2191.5	2126.8	2068.6	2076.3	2082.8	2082.8	2093.2	2073.8
17.5°	2296.2	2296.2	2269.0	2199.2	2133.3	2099.6	2091.9	2071.2	2053.1	2050.5	2049.3
20°	2368.6	2346.6	2284.5	2197.9	2130.7	2115.2	2057.0	2007.9	1970.4	1957.4	1956.2
22.5°	2451.3	2395.8	2309.1	2200.5	2126.8	2104.9	1996.2	1922.5	1855.3	1826.8	1830.7
25°	2527.6	2438.4	2323.3	2188.9	2112.6	2006.5	1885.0	1782.9	1713.1	1689.8	1678.1
27.5°	2580.6	2483.6	2323.3	2199.2	2059.6	1896.7	1772.6	1642.0	1581.2	1565.7	1568.3
30°	2651.7	2540.5	2363.4	2177.3	1953.6	1754.4	1605.8	1520.4	1484.2	1471.3	1480.3
32.5°	2818.5	2689.2	2419.0	2124.2	1828.2	1612.2	1492.0	1444.2	1391.2	1365.3	1356.3
35°	2999.5	2830.1	2473.3	2035.0	1687.2	1482.9	1407.9	1364.0	1300.6	1272.2	1277.4
37.5°	3255.5	3011.1	2477.2	1887.6	1534.7	1410.5	1342.0	1273.5	1221.8	1177.8	1164.9
40°	3600.7	3258.1	2468.1	1732.5	1411.9	1325.2	1274.8	1189.4	1131.3	1100.3	1106.7
42.5°	3904.5	3547.7	2430.7	1556.6	1300.6	1267.1	1210.1	1126.1	1069.2	1036.9	1034.3
45°	4160.5	3761.0	2359.5	1406.7	1207.6	1202.4	1136.4	1071.8	1026.5	996.8	1009.7
47.5°	4397.1	3932.9	2252.2	1256.7	1122.2	1132.6	1069.2	1029.1	1000.7	973.5	972.3
50°	4482.4	3930.4	2157.8	1132.6	1053.7	1048.6	1046.0	1003.3	973.5	950.2	960.6
52.5°	4624.7	3974.3	2055.7	1047.2	991.6	993.0	1002.0	970.9	937.4	923.1	936.0
55°	4828.9	3980.8	1830.7	947.7	939.9	949.0	949.0	928.3	899.9	888.2	881.8
56°	4662.2	3788.2	1642.0	921.8	914.1	914.1	938.6	915.3	880.4	871.4	863.6
57.5°	4300.1	3318.8	1374.4	890.8	879.2	897.3	910.2	885.7	853.3	840.4	848.1
60°	2965.9	2245.7	1033.0	823.6	823.6	853.3	863.6	827.5	813.2	811.9	801.6
62.5°	1731.2	1308.4	808.0	762.8	765.4	790.0	797.7	777.0	758.9	780.9	791.2
65°	918.0	780.9	693.0	698.2	699.5	718.9	752.4	751.2	749.8	756.3	757.7
67.5°	664.6	649.0	629.7	624.4	627.0	641.3	674.9	700.7	699.5	683.9	672.3
70°	592.1	570.2	558.5	559.9	549.5	566.2	593.4	610.2	580.5	562.4	554.6
72.5°	492.6	486.1	478.4	479.6	458.9	455.1	424.0	424.0	416.3	411.2	420.2
75°	376.3	373.7	377.5	371.0	349.1	325.8	307.7	290.9	265.1	254.7	249.5
77.5°	237.9	245.7	254.7	240.4	231.4	214.6	196.5	179.7	159.0	147.4	147.4
80°	161.6	168.1	174.5	172.0	161.6	146.1	131.9	113.8	99.6	90.5	89.2
82.5°	122.8	128.0	137.1	126.7	116.4	103.4	91.8	78.9	65.9	55.6	55.6
85°	44.0	50.5	55.6	60.8	64.7	65.9	56.9	46.5	37.5	29.8	28.4
87.5°	11.6	13.0	14.2	13.0	13.0	13.0	14.2	13.0	11.6	9.1	9.1
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)