

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: P458697

Luminaire Tested: **GALN-SA2C-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10833 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

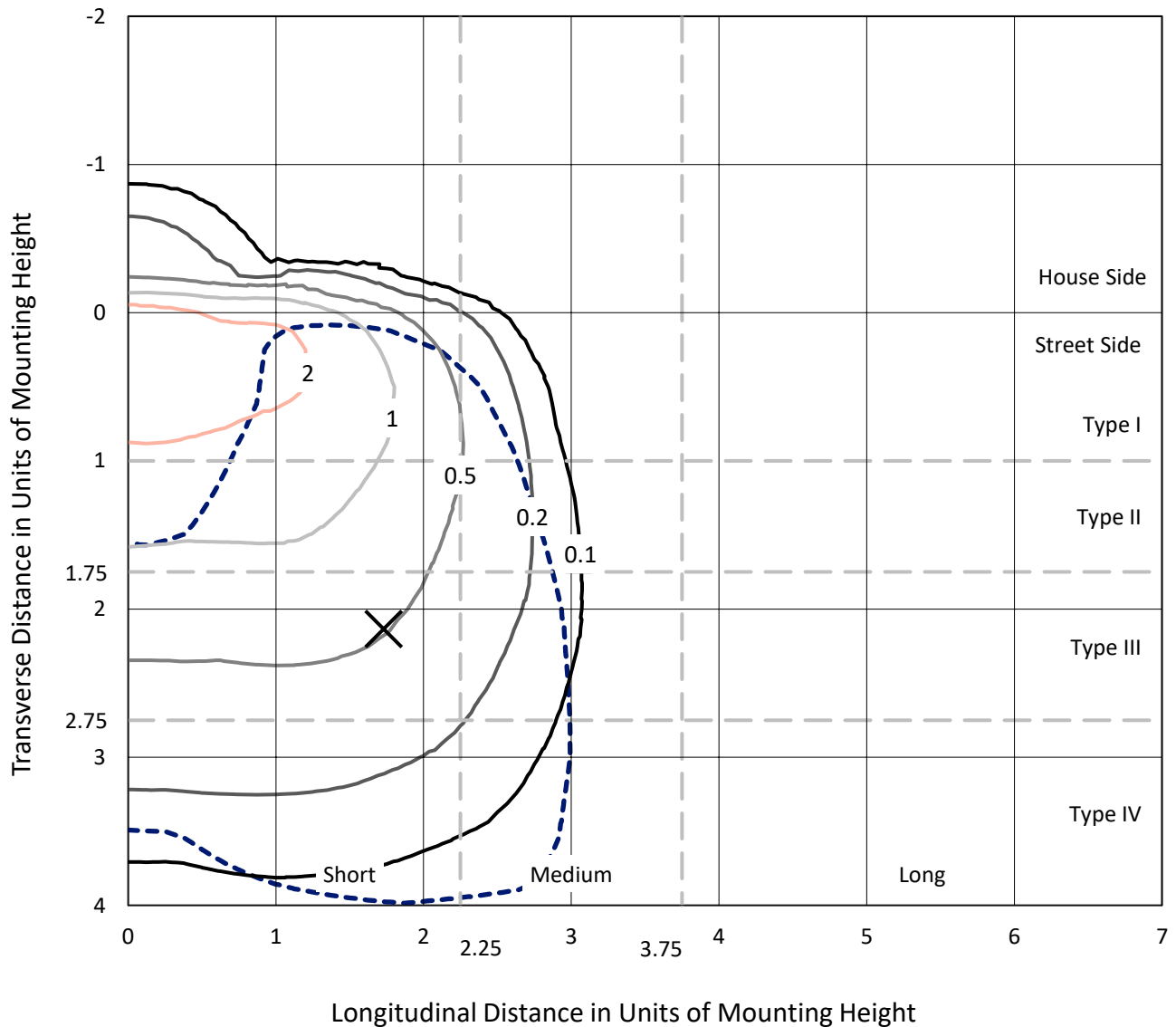
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

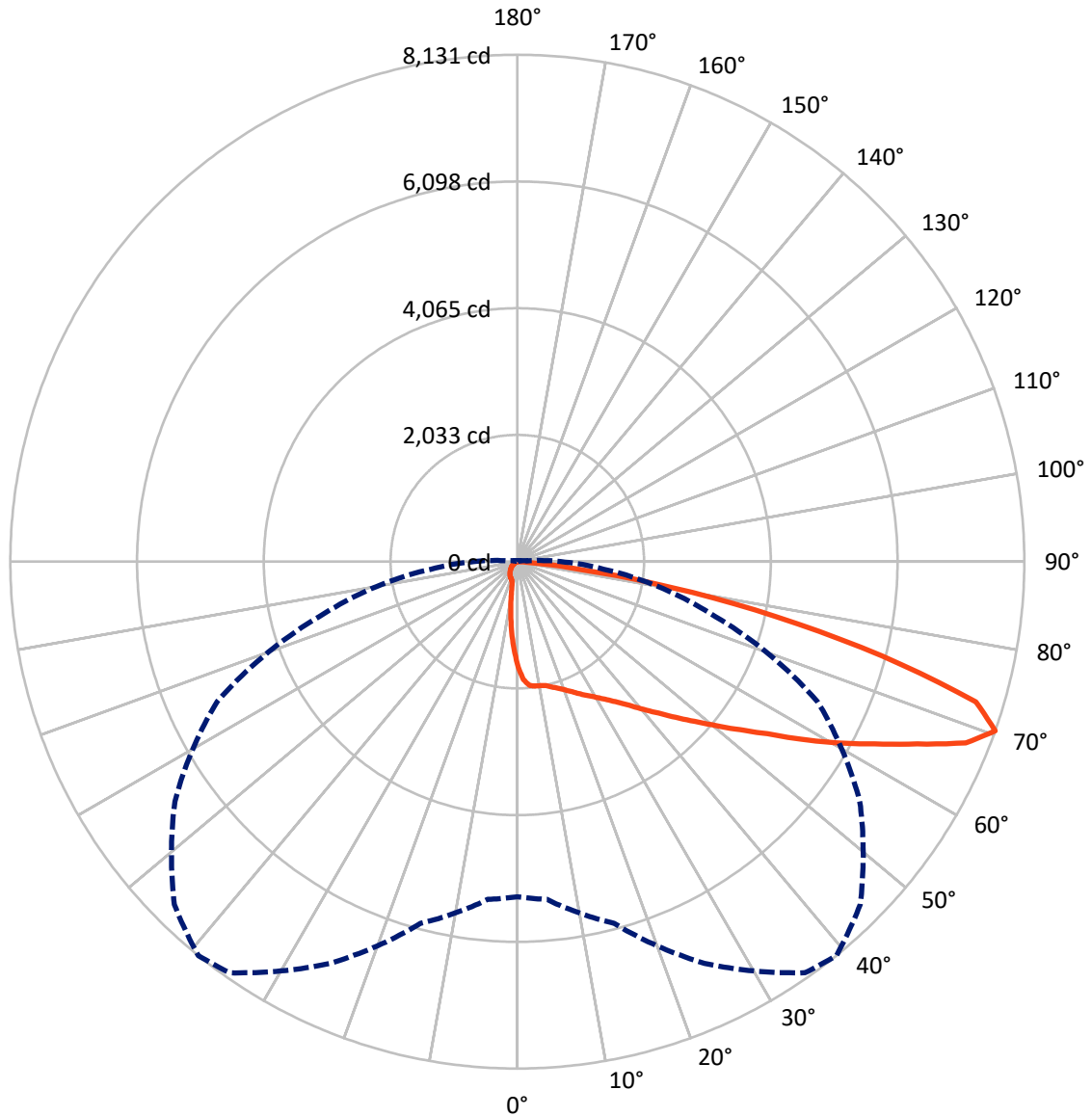
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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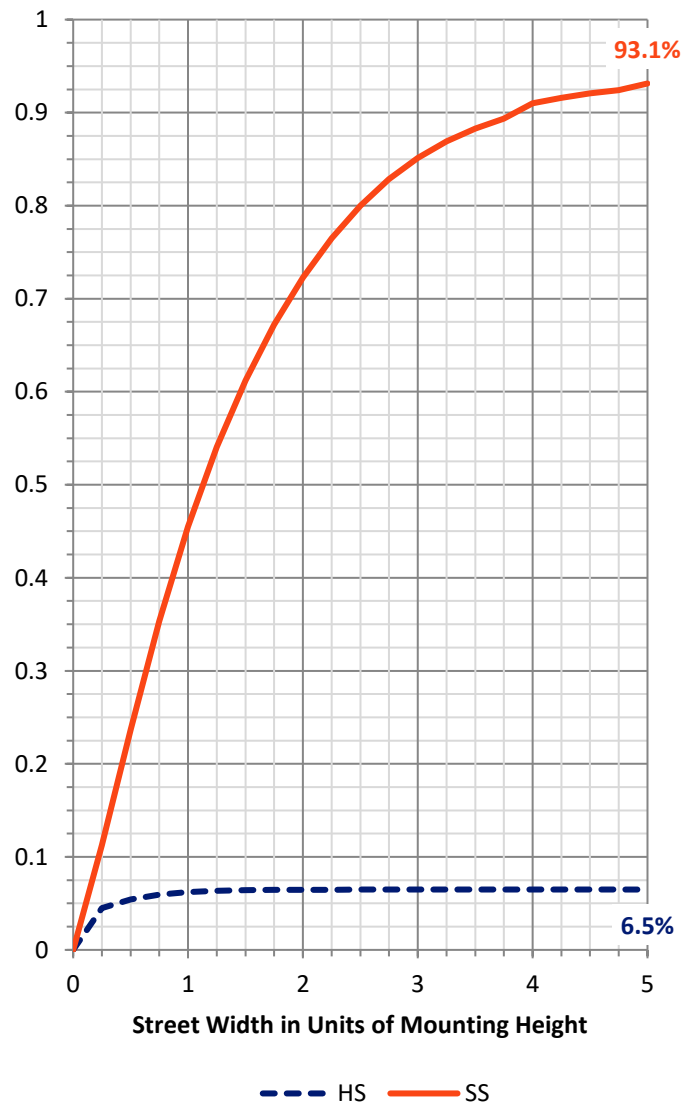
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	706.4	0.0	706.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	10126.6	0.0	10126.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	10833.0	0.0	10833.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	1.3
10°-20°	374.7	3.5
20°-30°	627.7	5.8
30°-40°	973.4	9.0
40°-50°	1542.6	14.2
50°-60°	2261.2	20.9
60°-70°	2898.3	26.8
70°-80°	1821.2	16.8
80°-90°	189.7	1.8
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°	10833.0	100.0
0°-180°	10833.0	100.0



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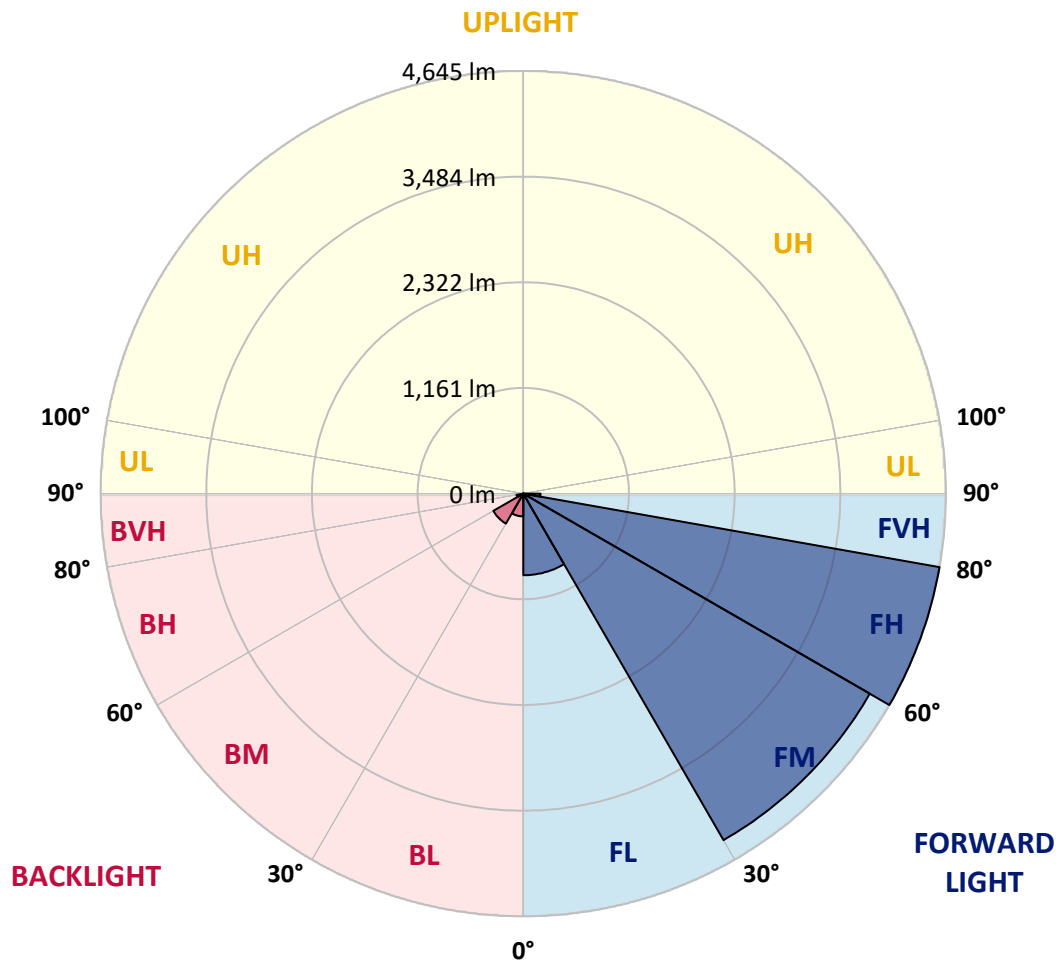
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.4	8.3			
FM (30°-60°)	4397.1	40.6			
FH (60°-80°)	4644.8	42.9			G2/5000
FVH (80°-90°)	188.3	1.7			G2/225
BL (0°-30°)	250.1	2.3	B1/500		
BM (30°-60°)	380.1	3.5	B1/1000		
BH (60°-80°)	74.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3
2.5°	1953.1	1946.6	1937.8	1927.6	1898.5	1893.4	1875.9	1838.8	1794.4	1758.0	1707.8
5°	2045.6	2049.2	2042.7	2024.5	2003.3	1991.0	1969.1	1911.6	1854.1	1780.6	1698.3
7.5°	2066.7	2074.0	2065.9	2048.5	2028.1	2015.0	1997.5	1948.0	1881.0	1797.3	1684.5
10°	2064.5	2073.2	2068.1	2052.1	2035.4	2023.0	2004.1	1964.8	1910.9	1822.8	1688.9
12.5°	2060.9	2072.5	2071.8	2063.8	2049.9	2040.5	2028.8	1993.9	1943.6	1859.9	1712.9
15°	2050.7	2065.2	2078.3	2084.9	2085.6	2085.6	2071.0	2033.9	1985.9	1908.7	1744.2
17.5°	2055.0	2071.8	2104.5	2123.5	2136.6	2135.1	2119.8	2079.8	2026.6	1958.9	1776.9
20°	2082.0	2104.5	2150.4	2188.2	2201.3	2197.0	2176.6	2130.0	2069.6	2001.9	1809.0
22.5°	2148.2	2168.6	2226.1	2270.5	2280.0	2268.3	2239.2	2175.9	2121.3	2048.5	1847.6
25°	2247.2	2271.2	2324.4	2357.9	2357.9	2351.3	2310.5	2236.3	2179.5	2113.3	1897.8
27.5°	2367.3	2387.7	2440.1	2470.0	2452.5	2433.6	2392.8	2303.3	2248.7	2194.8	1958.2
30°	2488.9	2502.0	2557.3	2570.4	2552.2	2528.2	2484.5	2395.0	2346.9	2305.4	2045.6
32.5°	2603.9	2632.3	2678.2	2675.2	2650.5	2638.8	2598.8	2503.4	2476.5	2472.1	2167.9
35°	2718.9	2740.8	2781.5	2791.7	2769.9	2767.7	2738.6	2668.0	2668.7	2697.1	2358.6
37.5°	2817.9	2837.6	2885.6	2908.2	2912.6	2923.5	2911.8	2865.2	2931.5	3009.4	2611.2
40°	2900.9	2928.6	2989.7	3029.0	3074.2	3114.2	3116.4	3126.6	3259.8	3393.7	2941.0
42.5°	2965.7	3004.3	3093.1	3165.9	3269.3	3320.2	3361.0	3417.0	3641.2	3841.4	3329.7
45°	3050.1	3094.6	3205.2	3319.5	3481.1	3564.8	3621.6	3771.6	4089.7	4362.7	3728.6
47.5°	3189.9	3213.2	3326.0	3492.7	3705.3	3824.7	3935.3	4162.5	4570.9	4815.4	4060.6
50°	3369.7	3385.0	3470.2	3701.7	3976.8	4134.1	4335.7	4602.9	5070.2	5191.1	4248.4
52.5°	3568.5	3573.5	3637.6	3931.7	4281.1	4479.1	4704.8	5034.6	5477.2	5459.0	4372.8
55°	3799.2	3791.9	3846.5	4181.4	4641.5	4867.9	5130.7	5476.4	5830.2	5649.0	4444.2
57.5°	4063.5	4043.8	4097.0	4512.6	5103.0	5373.8	5641.0	5857.9	6103.9	5808.4	4478.4
60°	4340.1	4300.8	4364.1	4884.6	5646.8	5903.7	6125.8	6184.0	6392.2	5935.0	4419.4
62.5°	4560.7	4561.4	4679.3	5280.6	6205.8	6430.8	6548.7	6601.1	6640.4	5907.4	4109.3
65°	4905.0	4916.6	5105.2	5830.2	6853.0	7048.1	7128.9	6958.6	6651.4	5563.8	3643.4
67.5°	5260.2	5297.4	5642.4	6587.3	7600.6	7757.9	7653.8	7027.7	6354.3	4779.8	2762.6
70°	5376.0	5437.1	6005.7	7108.5	8049.0	8130.6	7778.2	6705.2	5311.9	3195.7	1390.4
72.5°	4926.1	5025.1	5796.7	6918.5	7762.9	7692.3	6959.3	5623.5	3377.0	1213.5	424.4
75°	3473.8	3517.5	4817.6	5739.2	6243.7	6043.5	5293.7	3625.2	1388.9	340.7	145.6
77.5°	1793.7	1772.6	2865.2	3808.0	4452.9	4245.5	3466.5	1876.7	526.3	142.0	90.3
80°	927.4	942.7	1239.7	1995.3	2718.2	2501.3	1848.3	869.9	280.3	78.6	69.2
82.5°	519.8	487.7	712.7	871.4	1271.0	996.6	709.0	615.9	122.3	47.3	65.5
85°	94.6	99.0	390.9	471.0	441.1	280.3	228.6	411.3	35.7	26.2	45.9
87.5°	1.5	1.5	75.7	135.4	85.9	39.3	72.1	59.0	7.3	10.2	8.0
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°	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3	1690.3
2.5°	1682.3	1654.6	1603.0	1552.0	1487.2	1434.1	1398.4	1361.3	1323.4	1326.3	1335.1
5°	1653.2	1605.1	1503.2	1395.5	1292.1	1198.9	1107.2	1025.0	991.5	960.9	962.4
7.5°	1624.1	1556.4	1407.1	1238.3	1081.7	923.1	808.0	713.4	663.2	625.3	614.4
10°	1611.0	1521.4	1319.1	1086.8	864.8	691.6	543.8	466.6	406.9	388.0	393.1
12.5°	1616.8	1504.0	1239.7	950.0	685.7	481.9	378.5	339.2	326.1	323.9	322.5
15°	1627.7	1491.6	1161.8	798.6	503.7	358.2	318.1	310.8	309.4	307.9	308.7
17.5°	1642.3	1480.7	1078.8	656.6	386.5	313.0	301.4	297.7	297.0	297.0	297.0
20°	1656.8	1468.3	986.4	530.0	322.5	295.6	288.3	286.1	285.4	285.4	284.6
22.5°	1673.6	1457.4	892.5	416.4	297.0	283.2	276.6	275.2	274.4	273.7	273.7
25°	1697.6	1443.5	792.7	340.7	281.0	271.5	265.0	263.5	262.8	259.9	260.6
27.5°	1729.6	1433.4	690.1	294.1	266.4	257.0	252.6	250.4	249.0	246.8	247.5
30°	1773.3	1424.6	580.9	268.6	249.7	241.7	237.3	235.9	234.4	232.2	232.2
32.5°	1849.0	1428.3	465.9	248.2	234.4	224.9	220.6	219.1	217.7	215.5	215.5
35°	1962.6	1449.4	372.7	230.8	216.2	206.7	202.4	202.4	200.2	197.3	196.5
37.5°	2148.2	1503.2	299.2	214.0	198.7	190.0	184.9	183.4	181.3	176.9	176.2
40°	2367.3	1586.9	251.9	197.3	182.7	174.0	169.6	165.2	159.4	155.1	154.3
42.5°	2642.5	1672.8	218.4	180.5	167.4	159.4	154.3	147.0	138.3	132.5	131.8
45°	2929.3	1751.5	195.8	165.2	152.9	146.3	140.5	128.8	117.9	110.6	109.9
47.5°	3143.3	1766.0	177.6	150.7	140.5	133.9	125.9	111.4	96.8	90.3	88.1
50°	3244.5	1695.4	158.7	136.1	128.1	120.8	110.6	93.9	77.9	69.9	68.4
52.5°	3280.2	1573.1	143.4	123.0	115.7	107.0	94.6	75.7	61.1	53.1	52.4
55°	3265.6	1418.8	129.6	110.6	101.2	91.0	78.6	60.4	45.1	38.6	37.1
57.5°	3189.2	1222.2	115.7	98.3	86.6	76.4	62.6	45.1	30.6	24.8	24.0
60°	2983.2	954.4	101.9	84.4	73.5	62.6	49.5	32.0	18.9	13.8	13.8
62.5°	2635.2	708.3	88.8	70.6	61.9	50.2	34.9	20.4	10.2	7.3	6.6
65°	2202.1	522.7	74.3	59.7	51.7	39.3	24.8	12.4	5.1	2.2	1.5
67.5°	1536.7	322.5	61.9	48.8	42.2	28.4	15.3	5.1	2.2	0.0	0.0
70°	698.1	153.6	47.3	37.1	32.0	20.4	8.0	2.9	1.5	0.0	0.0
72.5°	216.9	80.8	33.5	26.9	21.8	13.1	4.4	2.2	1.5	0.0	0.0
75°	100.5	51.7	21.1	14.6	12.4	6.6	2.9	1.5	0.7	0.0	0.0
77.5°	75.0	40.0	12.4	8.0	6.6	4.4	2.2	1.5	0.7	0.0	0.0
80°	65.5	20.4	7.3	5.1	3.6	2.9	1.5	0.7	0.0	0.0	0.0
82.5°	59.0	10.2	4.4	2.9	2.2	1.5	0.7	0.7	0.0	0.0	0.0
85°	32.0	5.8	2.9	2.2	1.5	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	2.2	1.5	1.5	0.7	0.7	0.7	0.0	0.0	0.0
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)