

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: P451157

Luminaire Tested: **GALN-SA2A-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451157  
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-SA2A-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA 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: 6889 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

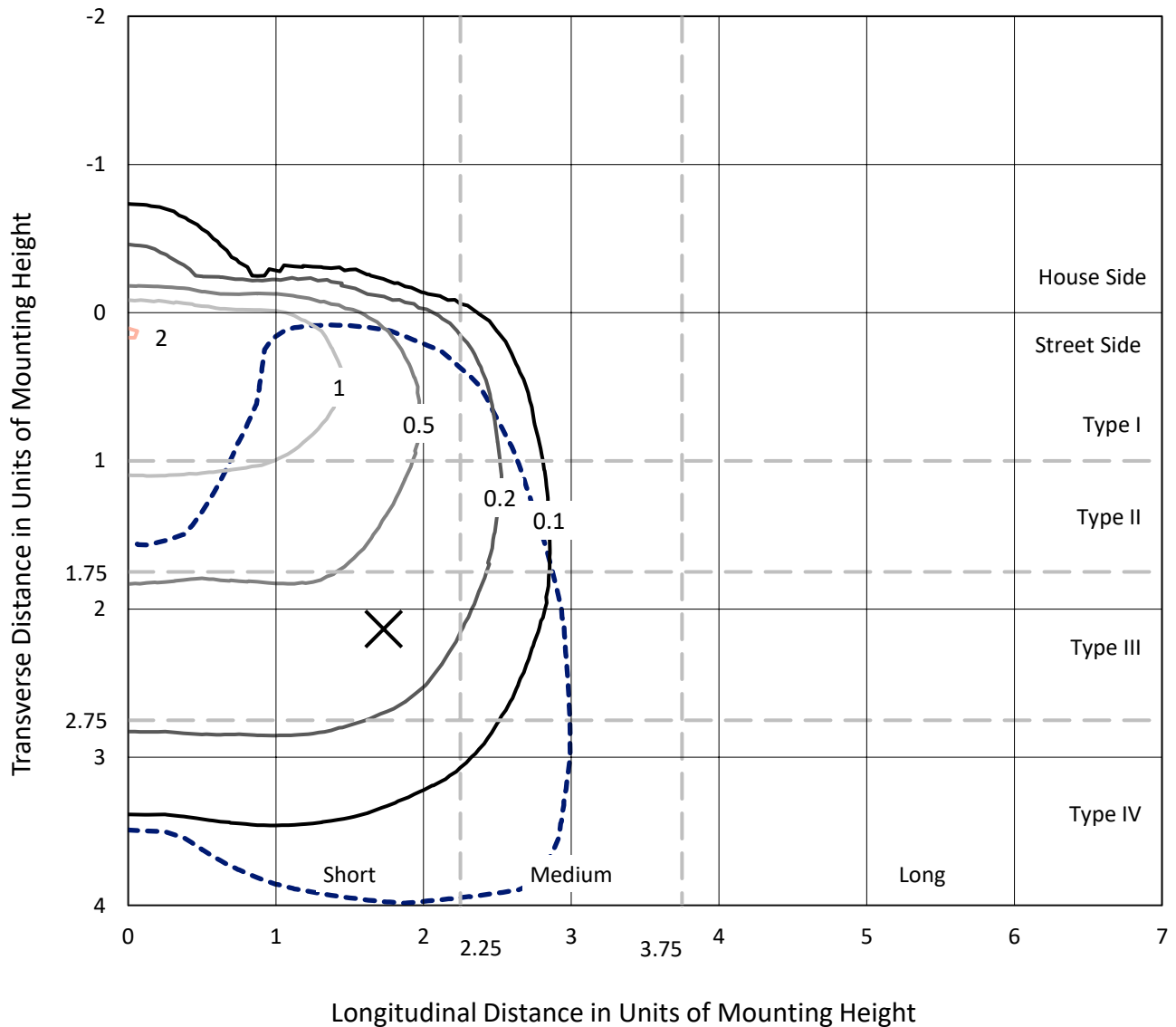
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

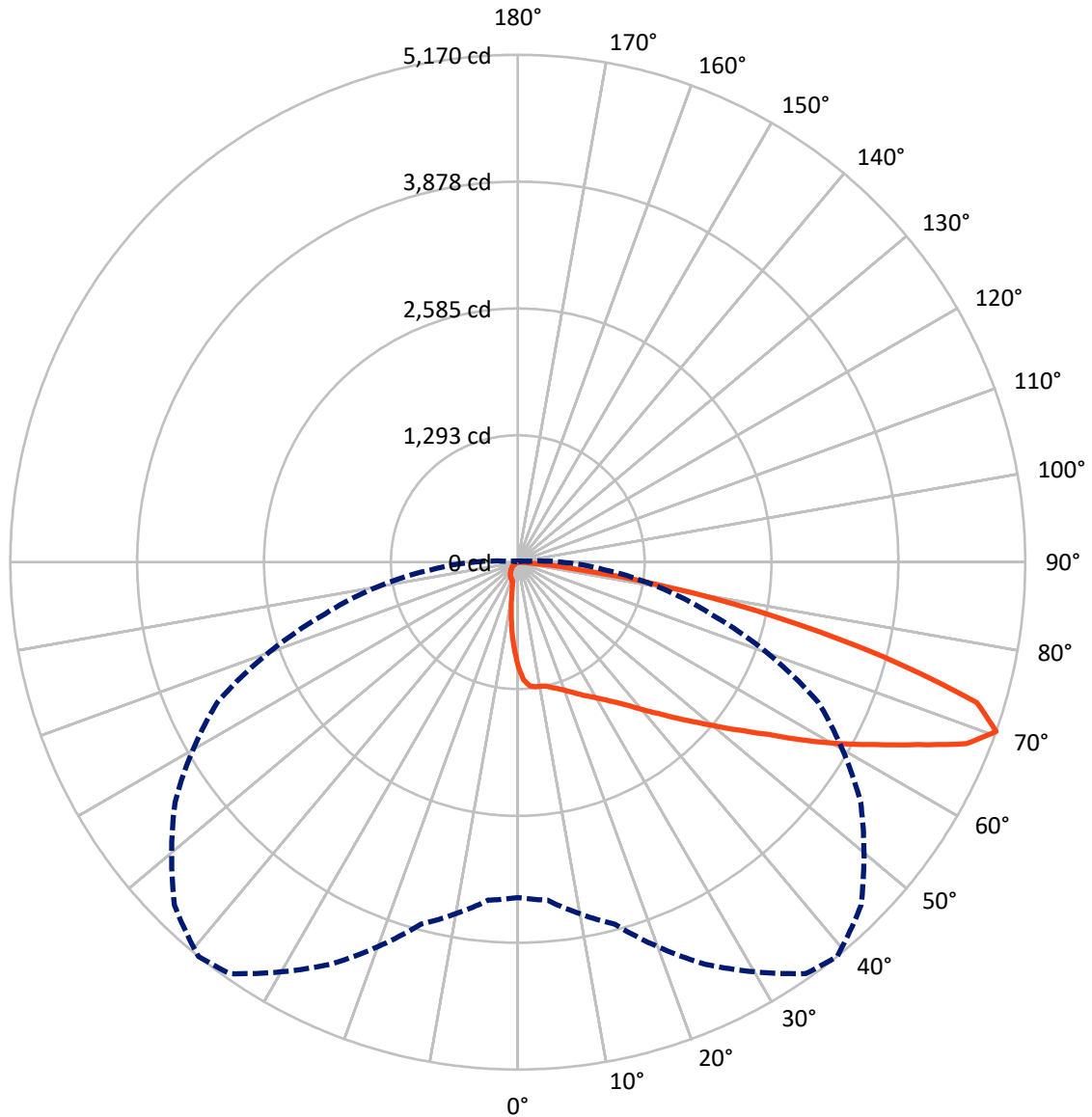
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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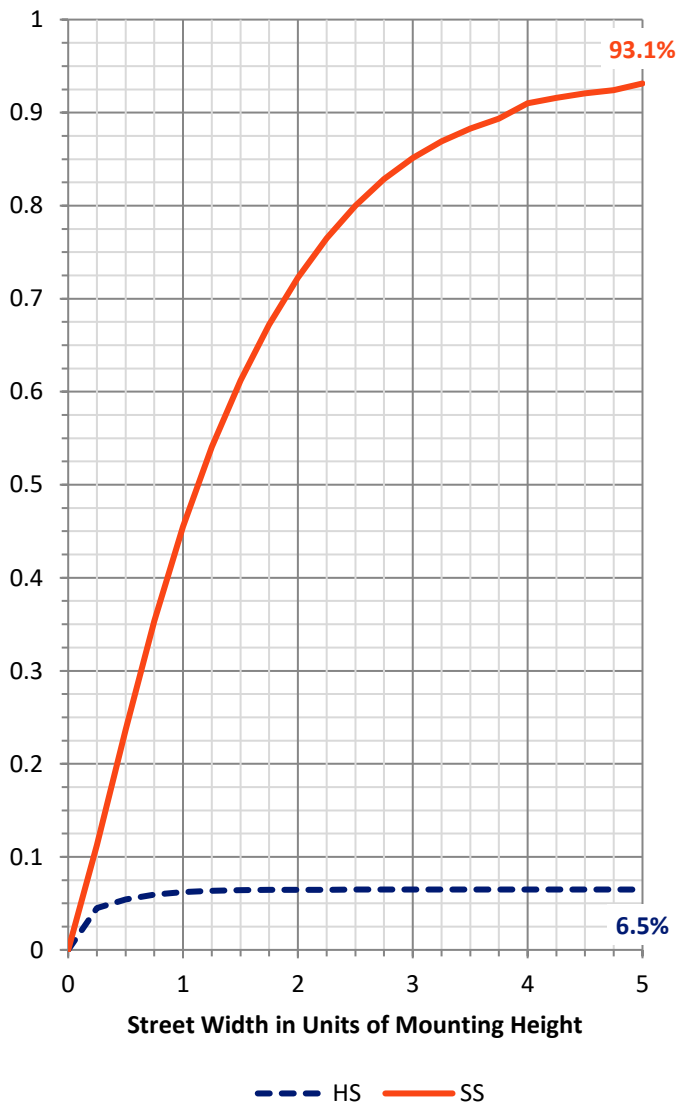
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	449.2	0.0	449.2
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	6439.8	0.0	6439.8
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	6889.0	0.0	6889.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	1.3
10°-20°	238.3	3.5
20°-30°	399.1	5.8
30°-40°	619.0	9.0
40°-50°	981.0	14.2
50°-60°	1438.0	20.9
60°-70°	1843.1	26.8
70°-80°	1158.2	16.8
80°-90°	120.7	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°	6889.0	100.0
0°-180°	6889.0	100.0

**Coefficient of Utilization**



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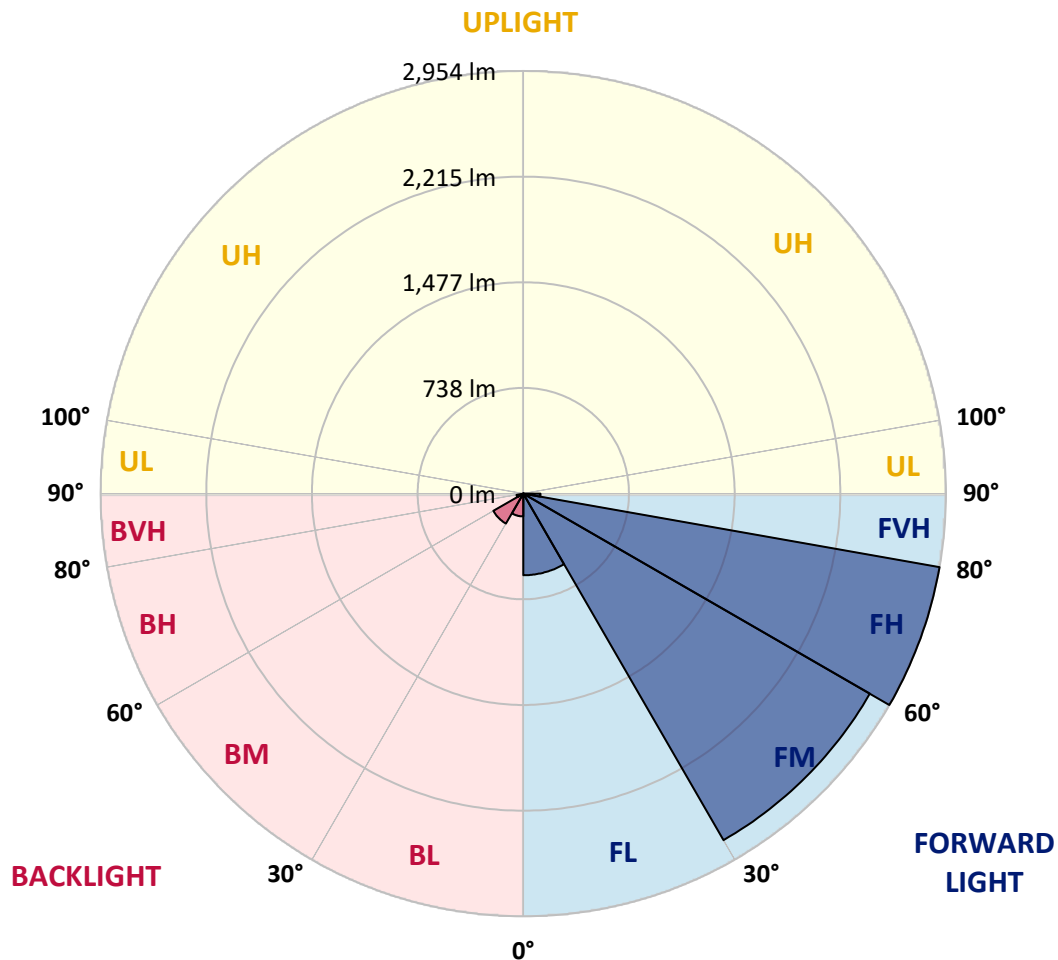
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.0	8.3			
FM (30°-60°)	2796.2	40.6			
FH (60°-80°)	2953.8	42.9			G2/5000
FVH (80°-90°)	119.8	1.7			G2/225
BL (0°-30°)	159.1	2.3	B1/500		
BM (30°-60°)	241.7	3.5	B1/1000		
BH (60°-80°)	47.5	0.7	B0/110		G0/110
BVH (80°-90°)	0.9	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°	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9
2.5°	1242.0	1237.9	1232.3	1225.8	1207.3	1204.1	1193.0	1169.4	1141.1	1118.0	1086.0
5°	1300.8	1303.1	1299.0	1287.4	1274.0	1266.1	1252.2	1215.7	1179.1	1132.3	1080.0
7.5°	1314.3	1318.9	1313.8	1302.7	1289.7	1281.4	1270.3	1238.8	1196.2	1143.0	1071.2
10°	1312.9	1318.4	1315.2	1305.0	1294.3	1286.5	1274.4	1249.4	1215.2	1159.2	1074.0
12.5°	1310.6	1318.0	1317.5	1312.4	1303.6	1297.6	1290.2	1268.0	1236.0	1182.8	1089.3
15°	1304.1	1313.3	1321.7	1325.8	1326.3	1326.3	1317.0	1293.4	1262.9	1213.8	1109.2
17.5°	1306.8	1317.5	1338.3	1350.4	1358.7	1357.8	1348.0	1322.6	1288.8	1245.7	1130.0
20°	1324.0	1338.3	1367.5	1391.6	1399.9	1397.1	1384.2	1354.5	1316.1	1273.1	1150.4
22.5°	1366.1	1379.1	1415.6	1443.9	1449.9	1442.5	1424.0	1383.7	1349.0	1302.7	1174.9
25°	1429.1	1444.3	1478.1	1499.4	1499.4	1495.3	1469.3	1422.1	1386.0	1343.9	1206.9
27.5°	1505.4	1518.4	1551.7	1570.7	1559.6	1547.6	1521.6	1464.7	1430.0	1395.7	1245.3
30°	1582.8	1591.1	1626.3	1634.6	1623.0	1607.8	1580.0	1523.0	1492.5	1466.1	1300.8
32.5°	1655.9	1673.9	1703.1	1701.3	1685.5	1678.1	1652.7	1592.0	1574.9	1572.1	1378.6
35°	1729.0	1742.9	1768.9	1775.3	1761.4	1760.1	1741.5	1696.6	1697.1	1715.2	1499.9
37.5°	1792.0	1804.5	1835.0	1849.4	1852.2	1859.1	1851.7	1822.1	1864.2	1913.7	1660.5
40°	1844.8	1862.4	1901.2	1926.2	1954.9	1980.4	1981.8	1988.3	2073.0	2158.2	1870.2
42.5°	1886.0	1910.5	1967.0	2013.3	2079.0	2111.4	2137.3	2173.0	2315.6	2442.9	2117.4
45°	1939.7	1967.9	2038.3	2111.0	2213.7	2267.0	2303.1	2398.4	2600.7	2774.3	2371.1
47.5°	2028.6	2043.4	2115.1	2221.1	2356.3	2432.2	2502.6	2647.0	2906.7	3062.3	2582.2
50°	2142.9	2152.6	2206.8	2354.0	2529.0	2629.0	2757.2	2927.1	3224.3	3301.1	2701.7
52.5°	2269.3	2272.5	2313.3	2500.3	2722.5	2848.4	2991.9	3201.6	3483.1	3471.5	2780.8
55°	2416.0	2411.4	2446.1	2659.1	2951.6	3095.6	3262.7	3482.6	3707.6	3592.3	2826.2
57.5°	2584.1	2571.6	2605.4	2869.7	3245.1	3417.3	3587.2	3725.2	3881.7	3693.7	2847.9
60°	2760.0	2735.0	2775.3	3106.3	3590.9	3754.4	3895.5	3932.6	4065.0	3774.3	2810.4
62.5°	2900.2	2900.7	2975.7	3358.1	3946.5	4089.5	4164.5	4197.8	4222.8	3756.7	2613.2
65°	3119.2	3126.6	3246.5	3707.6	4358.0	4482.1	4533.5	4425.1	4229.8	3538.2	2317.0
67.5°	3345.1	3368.7	3588.2	4189.0	4833.4	4933.4	4867.2	4469.1	4040.9	3039.6	1756.8
70°	3418.7	3457.6	3819.2	4520.5	5118.6	5170.4	4946.4	4264.0	3378.0	2032.3	884.2
72.5°	3132.6	3195.6	3686.3	4399.7	4936.7	4891.8	4425.6	3576.1	2147.5	771.7	269.9
75°	2209.1	2236.9	3063.7	3649.7	3970.5	3843.2	3366.4	2305.4	883.3	216.7	92.6
77.5°	1140.7	1127.2	1822.1	2421.6	2831.7	2699.8	2204.5	1193.4	334.7	90.3	57.4
80°	589.8	599.5	788.4	1268.9	1728.6	1590.6	1175.4	553.2	178.2	50.0	44.0
82.5°	330.5	310.2	453.2	554.1	808.3	633.7	450.9	391.6	77.8	30.1	41.7
85°	60.2	63.0	248.6	299.5	280.5	178.2	145.4	261.6	22.7	16.7	29.2
87.5°	0.9	0.9	48.1	86.1	54.6	25.0	45.8	37.5	4.6	6.5	5.1
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°	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9
2.5°	1069.8	1052.2	1019.4	987.0	945.8	912.0	889.3	865.7	841.6	843.5	849.0
5°	1051.3	1020.8	955.9	887.4	821.7	762.4	704.1	651.8	630.5	611.1	612.0
7.5°	1032.8	989.7	894.8	787.4	687.9	587.0	513.9	453.7	421.7	397.7	390.7
10°	1024.5	967.5	838.8	691.2	550.0	439.8	345.8	296.7	258.8	246.7	250.0
12.5°	1028.2	956.4	788.4	604.1	436.1	306.5	240.7	215.7	207.4	206.0	205.1
15°	1035.1	948.5	738.8	507.8	320.3	227.8	202.3	197.7	196.7	195.8	196.3
17.5°	1044.4	941.6	686.1	417.6	245.8	199.1	191.7	189.3	188.9	188.9	188.9
20°	1053.6	933.7	627.3	337.0	205.1	187.9	183.3	181.9	181.5	181.5	181.0
22.5°	1064.3	926.8	567.6	264.8	188.9	180.1	175.9	175.0	174.5	174.1	174.1
25°	1079.5	918.0	504.1	216.7	178.7	172.7	168.5	167.6	167.1	165.3	165.7
27.5°	1099.9	911.5	438.9	187.0	169.4	163.4	160.6	159.2	158.3	156.9	157.4
30°	1127.7	906.0	369.4	170.8	158.8	153.7	150.9	150.0	149.1	147.7	147.7
32.5°	1175.8	908.3	296.3	157.9	149.1	143.0	140.3	139.3	138.4	137.0	137.0
35°	1248.1	921.7	237.0	146.7	137.5	131.5	128.7	128.7	127.3	125.5	125.0
37.5°	1366.1	955.9	190.3	136.1	126.4	120.8	117.6	116.7	115.3	112.5	112.0
40°	1505.4	1009.2	160.2	125.5	116.2	110.6	107.9	105.1	101.4	98.6	98.1
42.5°	1680.4	1063.8	138.9	114.8	106.5	101.4	98.1	93.5	88.0	84.3	83.8
45°	1862.8	1113.8	124.5	105.1	97.2	93.0	89.3	81.9	75.0	70.4	69.9
47.5°	1998.9	1123.1	113.0	95.8	89.3	85.2	80.1	70.8	61.6	57.4	56.0
50°	2063.3	1078.2	100.9	86.6	81.5	76.8	70.4	59.7	49.5	44.4	43.5
52.5°	2086.0	1000.4	91.2	78.2	73.6	68.1	60.2	48.1	38.9	33.8	33.3
55°	2076.7	902.2	82.4	70.4	64.3	57.9	50.0	38.4	28.7	24.5	23.6
57.5°	2028.1	777.3	73.6	62.5	55.1	48.6	39.8	28.7	19.4	15.7	15.3
60°	1897.1	606.9	64.8	53.7	46.8	39.8	31.5	20.4	12.0	8.8	8.8
62.5°	1675.8	450.4	56.5	44.9	39.3	31.9	22.2	13.0	6.5	4.6	4.2
65°	1400.4	332.4	47.2	38.0	32.9	25.0	15.7	7.9	3.2	1.4	0.9
67.5°	977.2	205.1	39.3	31.0	26.8	18.1	9.7	3.2	1.4	0.0	0.0
70°	443.9	97.7	30.1	23.6	20.4	13.0	5.1	1.9	0.9	0.0	0.0
72.5°	138.0	51.4	21.3	17.1	13.9	8.3	2.8	1.4	0.9	0.0	0.0
75°	63.9	32.9	13.4	9.3	7.9	4.2	1.9	0.9	0.5	0.0	0.0
77.5°	47.7	25.5	7.9	5.1	4.2	2.8	1.4	0.9	0.5	0.0	0.0
80°	41.7	13.0	4.6	3.2	2.3	1.9	0.9	0.5	0.0	0.0	0.0
82.5°	37.5	6.5	2.8	1.9	1.4	0.9	0.5	0.5	0.0	0.0	0.0
85°	20.4	3.7	1.9	1.4	0.9	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	3.7	1.9	1.4	0.9	0.9	0.5	0.5	0.5	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)