

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: P382902

Luminaire Tested: **GLEON-SA2C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9574.4 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

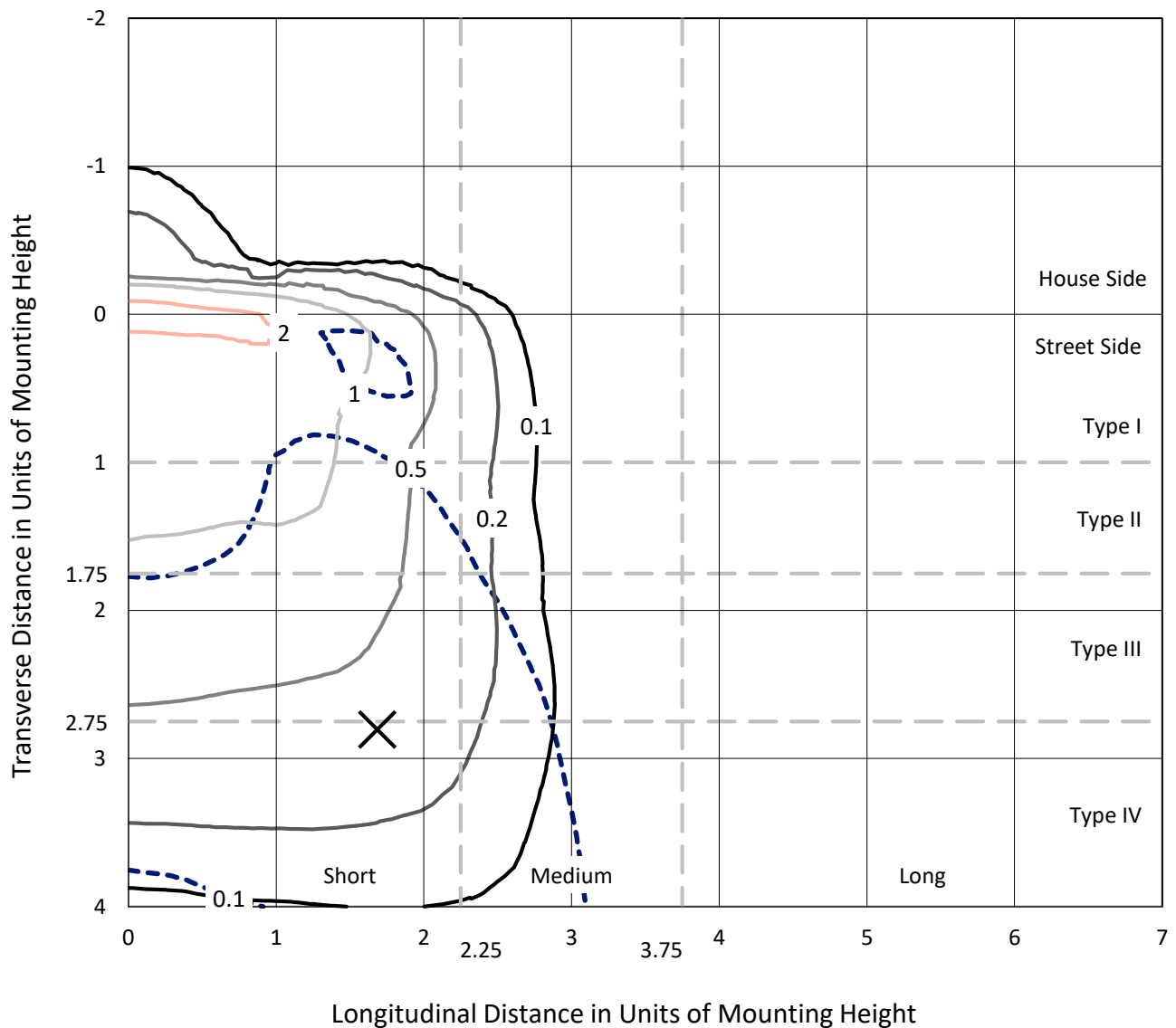
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

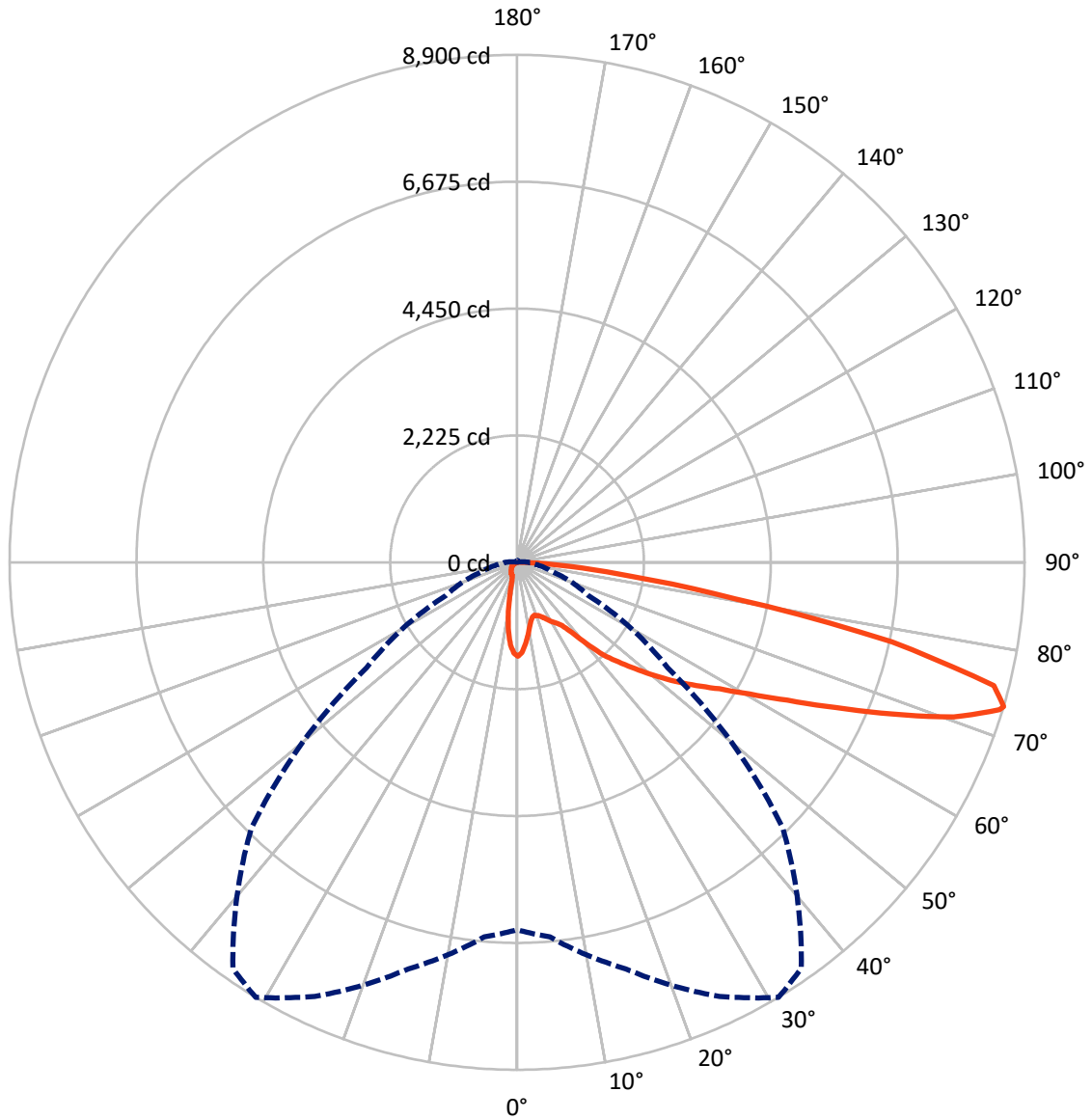
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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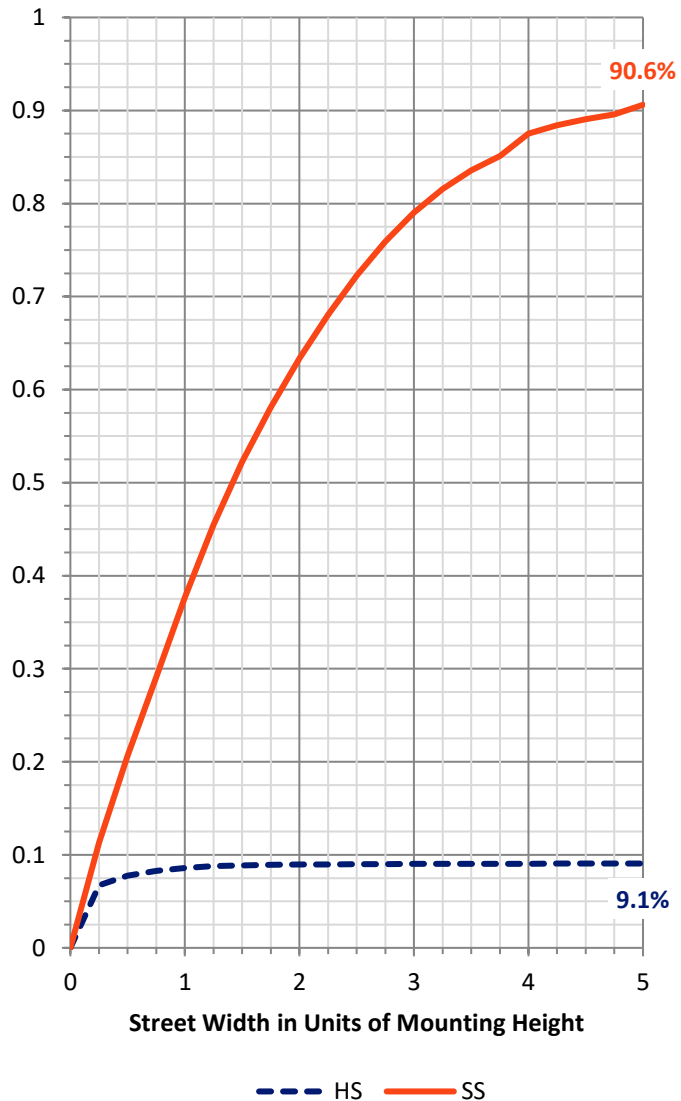
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	872.7	0.0	872.7
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	8701.7	0.0	8701.7
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	9574.4	0.0	9574.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.6	1.4
10°-20°	296.6	3.1
20°-30°	444.3	4.6
30°-40°	706.9	7.4
40°-50°	1262.4	13.2
50°-60°	1958.9	20.5
60°-70°	2604.1	27.2
70°-80°	1958.8	20.5
80°-90°	205.8	2.1
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°	9574.4	100.0
0°-180°	9574.4	100.0

**Coefficient of Utilization**

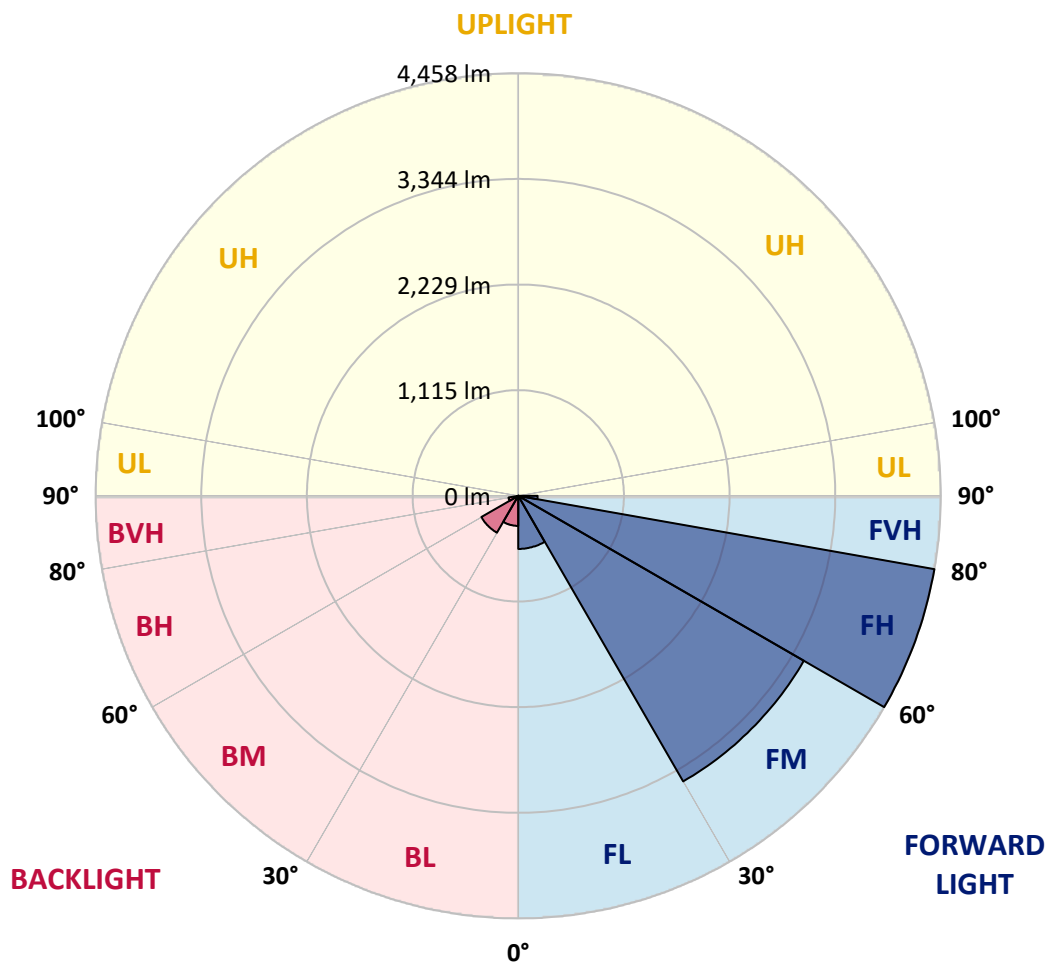


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.1	5.9			
FM (30°-60°)	3479.0	36.3			
FH (60°-80°)	4458.5	46.6			G2/5000
FVH (80°-90°)	204.1	2.1			G2/225
BL (0°-30°)	317.4	3.3	B1/500		
BM (30°-60°)	449.2	4.7	B1/1000		
BH (60°-80°)	104.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	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°	31°	35°	45°	55°	65°	75°	85°
0°	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3
2.5°	1561.1	1567.7	1574.7	1576.1	1587.8	1588.3	1605.1	1617.8	1630.4	1642.6	1646.8
5°	1400.9	1411.7	1424.2	1436.9	1461.8	1471.6	1512.8	1555.0	1595.3	1633.7	1652.5
7.5°	1229.8	1242.0	1259.8	1291.2	1318.9	1338.1	1403.2	1478.2	1553.2	1623.9	1664.7
10°	1073.8	1085.1	1103.8	1137.0	1179.7	1206.0	1293.5	1397.6	1507.7	1614.9	1682.9
12.5°	974.5	980.6	990.9	1026.6	1064.9	1094.5	1197.5	1326.3	1470.2	1614.5	1712.5
15°	956.2	958.1	949.7	965.6	995.6	1024.1	1128.7	1268.8	1441.7	1622.0	1750.8
17.5°	985.3	984.4	956.2	954.4	978.2	1001.7	1094.9	1228.9	1421.4	1639.3	1800.5
20°	1029.4	1026.0	977.3	968.4	993.7	1015.8	1092.6	1213.9	1414.0	1668.4	1861.0
22.5°	1087.9	1082.3	1005.9	996.6	1023.7	1046.7	1121.6	1228.4	1420.5	1707.2	1931.2
25°	1160.5	1152.0	1055.1	1044.8	1072.4	1095.4	1173.7	1270.2	1440.2	1754.6	2020.2
27.5°	1242.5	1230.3	1133.8	1107.1	1138.5	1162.4	1243.0	1333.9	1471.1	1804.7	2129.4
30°	1319.8	1303.9	1216.7	1172.7	1211.1	1237.8	1318.0	1409.8	1520.8	1882.0	2278.8
32.5°	1397.6	1379.8	1290.8	1238.3	1273.0	1302.0	1395.3	1514.2	1614.0	2000.1	2477.5
35°	1576.6	1557.8	1448.6	1362.0	1361.5	1377.9	1503.4	1657.1	1737.2	2164.5	2714.6
37.5°	1877.8	1867.0	1763.0	1598.5	1554.6	1536.3	1651.1	1827.7	1914.3	2390.8	2982.1
40°	2207.7	2198.3	2081.6	1932.6	1865.6	1820.6	1862.8	2065.2	2164.5	2667.3	3255.3
42.5°	2580.1	2535.6	2327.6	2283.0	2223.1	2189.0	2150.9	2358.0	2471.9	2968.0	3526.1
45°	2918.4	2843.5	2573.6	2506.0	2492.5	2500.9	2522.0	2751.6	2817.7	3325.5	3796.0
47.5°	3119.8	3060.8	2853.7	2789.1	2785.3	2841.1	3000.4	3196.2	3162.0	3637.1	4033.4
50°	3311.5	3258.1	3086.1	3102.1	3119.4	3195.3	3543.4	3653.5	3476.3	3919.6	4251.3
52.5°	3466.6	3385.1	3295.1	3384.6	3469.8	3592.1	4103.7	4063.9	3699.4	4144.5	4437.8
55°	3556.0	3519.0	3562.6	3652.6	3812.8	4011.4	4632.7	4405.5	3862.5	4349.7	4562.0
57.5°	3884.0	3811.3	3898.1	3975.8	4184.8	4462.6	5085.8	4659.9	3980.0	4476.6	4590.5
60°	4280.8	4222.2	4273.4	4402.7	4684.7	5011.3	5509.3	4867.4	4041.4	4558.2	4516.5
62.5°	4912.4	4835.1	4803.2	4948.0	5321.8	5678.4	5830.6	5011.3	4027.8	4522.1	4262.6
65°	5758.5	5678.4	5536.0	5667.2	6142.7	6394.3	6190.0	5041.7	3934.1	4230.3	3620.7
67.5°	6625.3	6567.2	6445.4	6666.5	7095.7	7176.7	6570.0	4967.7	3632.4	3430.1	2558.1
70°	7197.8	7173.0	7252.2	7741.3	8124.0	8100.6	6918.6	4569.9	2831.3	2109.3	1265.5
72.5°	6785.0	6904.1	7488.8	8375.6	8843.3	8652.1	6739.6	3509.2	1618.3	811.5	365.9
73°	6443.0	6595.3	7382.4	8399.6	8899.9	8690.5	6589.2	3221.0	1379.3	640.4	277.3
75°	4482.3	4669.2	6111.8	7822.9	8634.8	8280.1	5492.4	1971.5	639.0	283.9	112.0
77.5°	2176.3	2314.4	3365.3	5652.2	6715.2	6469.3	3419.2	734.6	288.6	177.6	51.5
80°	812.4	903.3	1460.9	2876.7	3880.7	3982.4	1504.0	277.8	192.1	142.9	26.3
82.5°	212.7	237.1	538.8	1282.8	1988.9	2081.6	474.2	140.1	140.6	117.6	15.9
85°	67.9	77.8	168.2	575.8	937.0	822.7	123.7	67.9	102.1	87.7	8.9
87.5°	8.5	10.8	53.4	135.4	206.6	114.8	19.2	20.1	43.6	48.7	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°	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3	1647.3
2.5°	1651.1	1648.7	1649.2	1637.0	1629.0	1613.1	1596.7	1589.2	1581.2	1577.9	1581.2
5°	1659.5	1655.3	1643.1	1605.6	1565.7	1514.2	1466.0	1429.5	1383.5	1370.9	1384.0
7.5°	1672.6	1664.2	1628.5	1552.2	1463.6	1365.3	1254.7	1174.1	1108.1	1065.4	1080.9
10°	1691.8	1675.9	1604.2	1474.5	1316.1	1141.8	984.8	862.5	775.9	740.3	738.8
12.5°	1724.1	1694.1	1574.2	1373.2	1135.6	903.3	697.6	565.1	494.7	449.3	448.4
15°	1759.8	1715.7	1536.3	1251.9	925.8	647.1	449.3	348.6	303.1	288.6	286.7
17.5°	1803.3	1740.5	1487.0	1102.4	706.0	428.7	293.3	264.3	262.3	260.9	260.9
20°	1858.2	1770.0	1423.8	931.5	500.8	286.3	249.3	251.1	252.1	250.2	250.7
22.5°	1921.9	1800.0	1348.4	747.8	338.7	239.4	238.5	240.8	241.7	240.8	241.3
25°	1995.8	1834.7	1256.6	555.2	244.5	227.2	229.5	232.9	235.2	235.2	235.2
27.5°	2087.7	1876.9	1146.0	387.4	211.3	214.5	221.1	227.2	230.5	231.5	231.5
30°	2207.2	1929.3	1013.4	265.7	192.1	197.7	209.9	221.6	227.7	228.6	229.1
32.5°	2358.0	1988.4	859.7	196.3	175.7	179.9	193.0	212.7	224.4	226.3	226.3
35°	2530.9	2056.8	694.4	171.0	164.0	165.3	175.7	198.1	218.8	223.9	224.4
37.5°	2720.2	2124.2	528.0	159.8	154.2	154.2	161.6	180.8	205.2	221.1	223.0
40°	2896.8	2165.0	370.1	150.8	145.2	145.2	151.8	165.8	188.8	212.7	217.9
42.5°	3059.9	2179.1	257.7	142.4	136.8	138.2	143.8	155.1	172.4	196.3	201.0
45°	3227.6	2176.7	187.9	132.6	128.4	132.6	136.8	145.2	157.9	171.5	172.4
47.5°	3354.1	2157.1	149.0	123.2	120.4	126.0	129.8	135.4	142.4	141.5	141.5
50°	3472.6	2109.3	120.0	110.6	112.4	119.0	120.9	122.8	123.2	114.3	113.4
52.5°	3562.6	2034.8	96.0	97.0	104.5	111.0	109.2	106.4	101.6	90.9	89.1
55°	3592.6	1891.4	75.5	80.1	92.8	101.2	94.2	88.1	79.2	70.2	68.4
57.5°	3538.2	1706.3	61.4	62.3	78.2	85.2	77.3	70.2	60.5	52.9	51.5
60°	3423.0	1500.6	50.6	46.9	60.5	66.5	61.4	54.3	45.5	39.9	39.3
62.5°	3194.4	1281.4	41.7	36.5	45.9	51.0	47.8	42.7	35.1	31.4	30.9
65°	2713.7	1025.1	33.7	29.5	35.6	39.9	37.0	33.3	27.7	24.9	24.4
67.5°	1894.2	693.0	27.7	24.4	28.1	31.4	29.1	27.2	22.0	21.5	22.0
70°	913.6	334.1	22.9	19.7	22.0	24.4	23.4	22.0	21.1	24.4	28.1
72.5°	261.9	112.0	18.3	16.4	17.8	19.2	20.1	19.7	22.9	29.5	34.2
73°	201.5	90.5	17.3	15.5	16.9	18.7	19.7	19.2	23.4	30.0	34.2
75°	86.2	43.6	13.1	12.7	14.1	16.4	17.3	17.3	23.4	30.5	32.8
77.5°	38.8	23.4	8.5	9.9	12.2	13.1	14.5	14.5	18.7	23.4	23.4
80°	22.0	12.7	6.5	7.5	8.9	8.9	8.9	8.0	8.5	9.4	10.3
82.5°	14.1	8.5	5.1	6.1	5.6	4.7	3.7	3.7	3.3	3.7	4.7
85°	8.0	4.7	4.7	3.7	2.3	1.9	2.3	1.9	0.5	0.0	0.5
87.5°	4.7	2.8	1.4	0.0	0.0	0.0	0.0	0.0	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)