

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: P451012

Luminaire Tested: **GALN-SA1D-760-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451012  
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-SA1D-760-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 6439 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

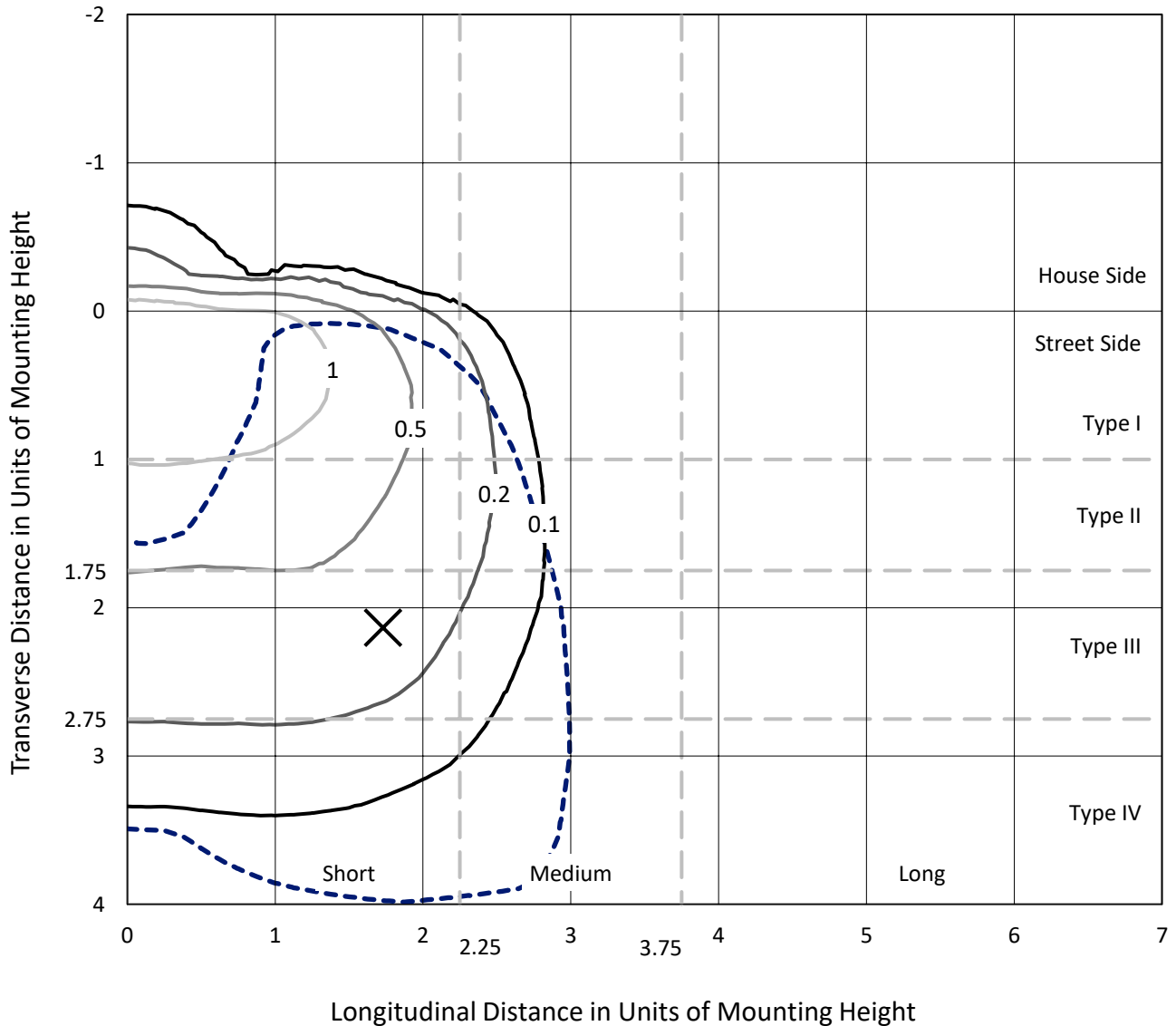
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

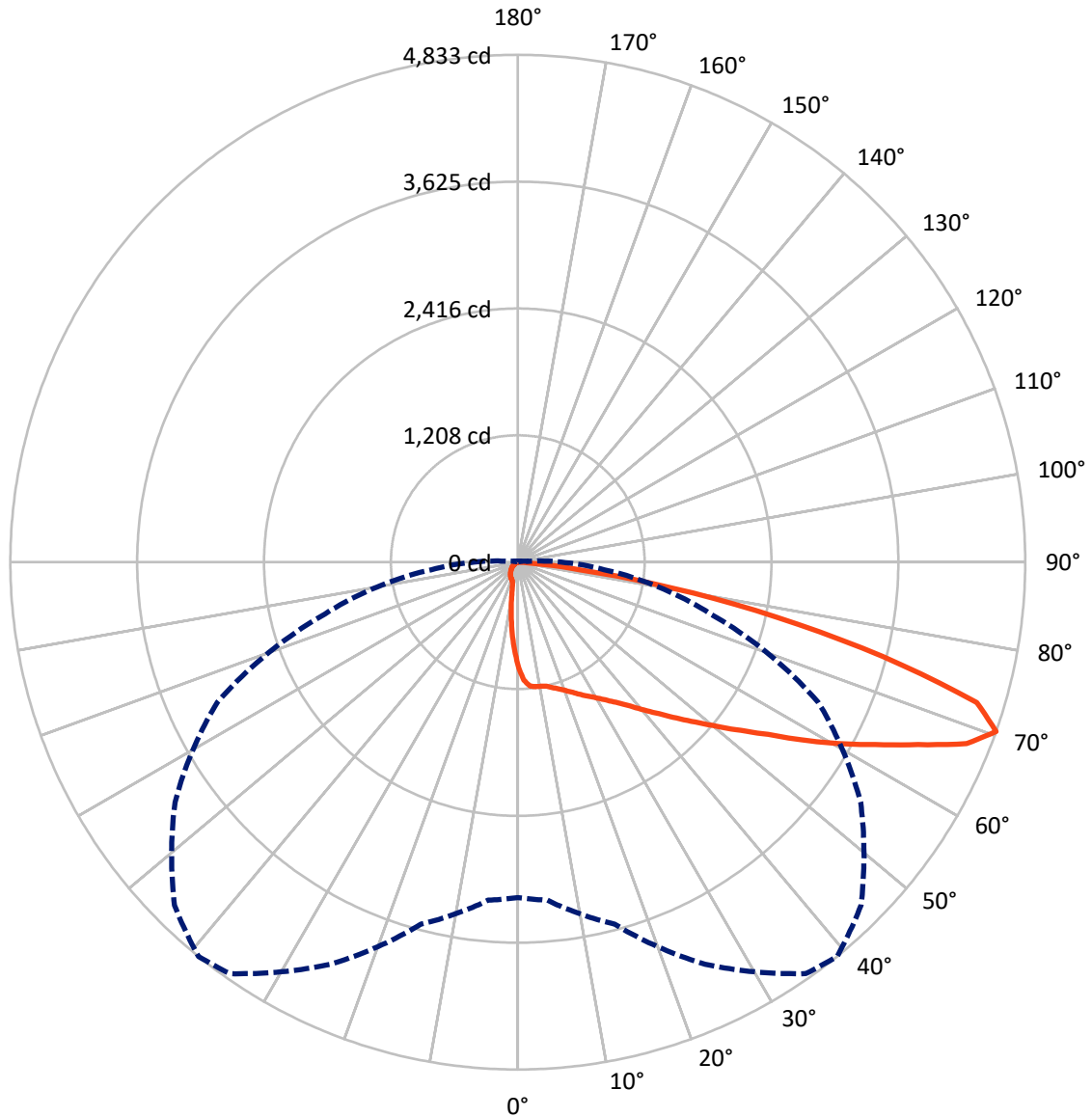
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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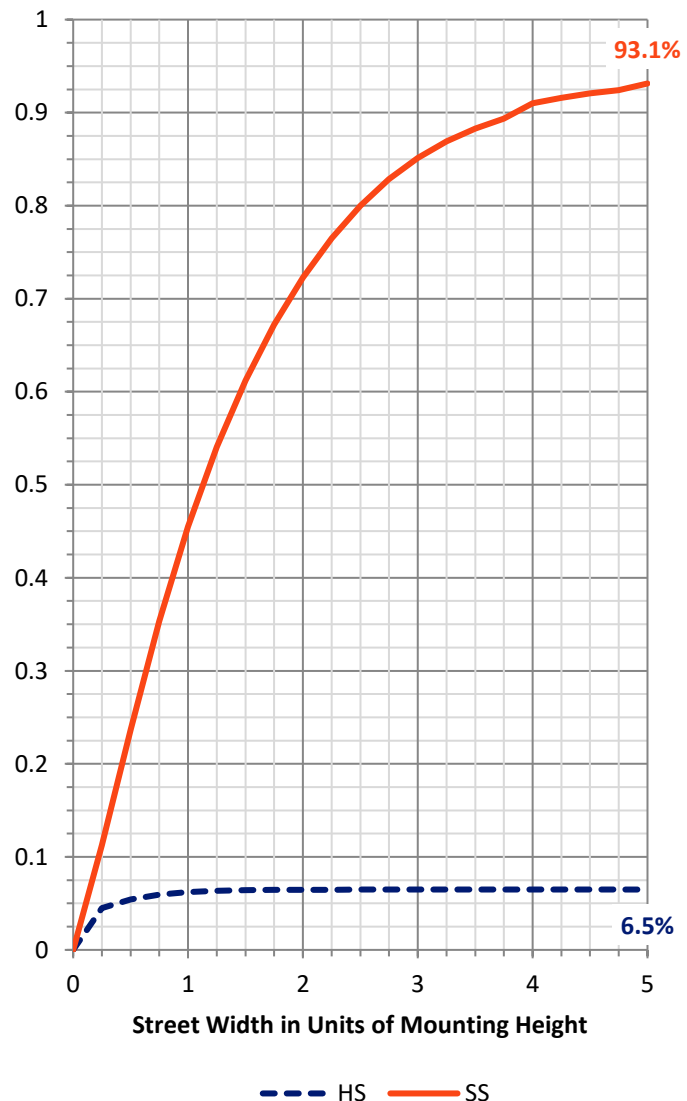
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	419.8	0.0	419.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	6019.1	0.0	6019.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	6439.0	0.0	6439.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	1.3
10°-20°	222.7	3.5
20°-30°	373.1	5.8
30°-40°	578.6	9.0
40°-50°	916.9	14.2
50°-60°	1344.0	20.9
60°-70°	1722.7	26.8
70°-80°	1082.5	16.8
80°-90°	112.8	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°	6439.0	100.0
0°-180°	6439.0	100.0



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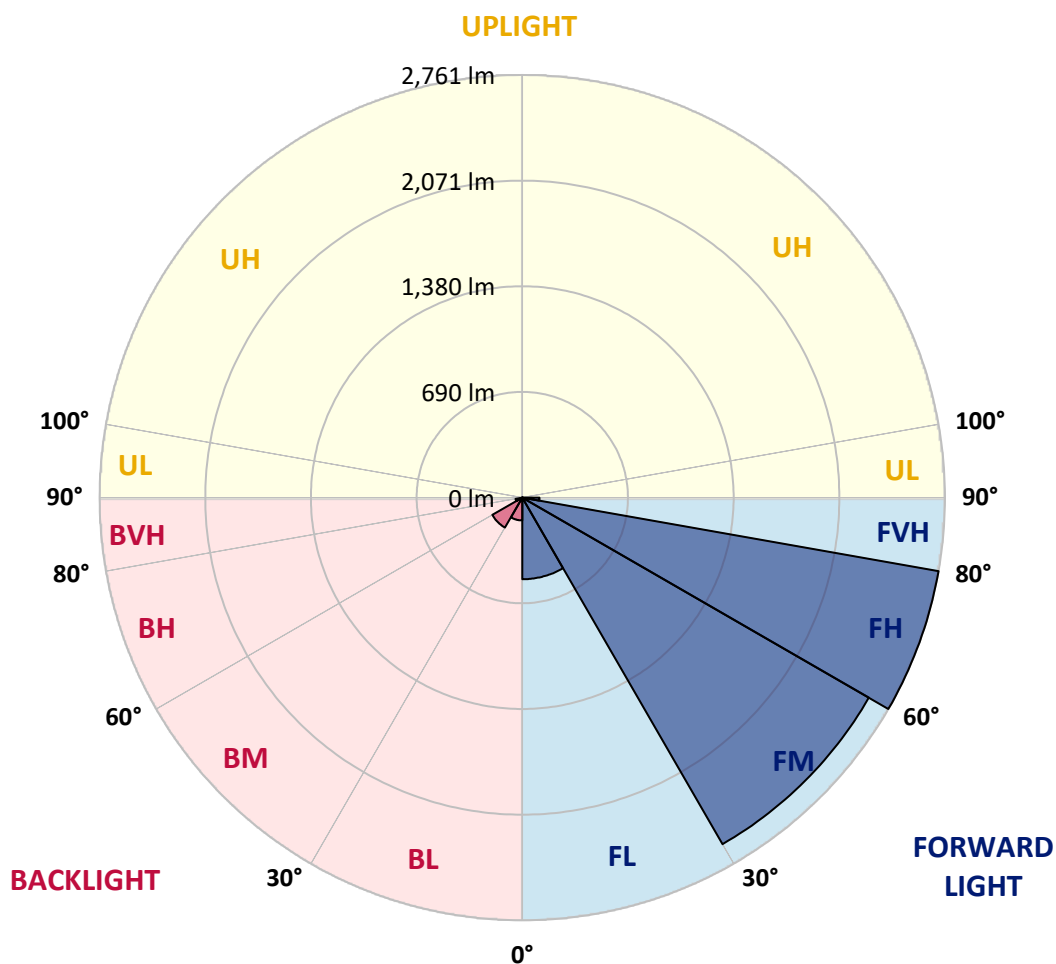
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.8	8.3			
FM (30°-60°)	2613.6	40.6			
FH (60°-80°)	2760.8	42.9			G2/5000
FVH (80°-90°)	111.9	1.7			G2/225
BL (0°-30°)	148.7	2.3	B1/500		
BM (30°-60°)	225.9	3.5	B1/1000		
BH (60°-80°)	44.4	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7
2.5°	1160.9	1157.0	1151.8	1145.8	1128.5	1125.4	1115.0	1093.0	1066.6	1044.9	1015.1
5°	1215.9	1218.0	1214.1	1203.3	1190.8	1183.4	1170.4	1136.2	1102.1	1058.4	1009.5
7.5°	1228.4	1232.7	1228.0	1217.6	1205.5	1197.7	1187.3	1157.9	1118.1	1068.3	1001.2
10°	1227.1	1232.3	1229.3	1219.8	1209.8	1202.4	1191.2	1167.8	1135.8	1083.5	1003.8
12.5°	1224.9	1231.9	1231.4	1226.7	1218.5	1212.8	1205.9	1185.1	1155.3	1105.5	1018.1
15°	1218.9	1227.5	1235.3	1239.2	1239.7	1239.7	1231.0	1208.9	1180.4	1134.5	1036.7
17.5°	1221.5	1231.4	1250.9	1262.2	1269.9	1269.1	1260.0	1236.2	1204.6	1164.4	1056.2
20°	1237.5	1250.9	1278.2	1300.7	1308.5	1305.9	1293.7	1266.0	1230.1	1189.9	1075.2
22.5°	1276.9	1289.0	1323.2	1349.6	1355.2	1348.3	1331.0	1293.3	1260.9	1217.6	1098.2
25°	1335.7	1350.0	1381.6	1401.5	1401.5	1397.6	1373.4	1329.2	1295.5	1256.1	1128.0
27.5°	1407.1	1419.2	1450.4	1468.1	1457.7	1446.5	1422.3	1369.0	1336.6	1304.6	1163.9
30°	1479.4	1487.2	1520.0	1527.8	1517.0	1502.7	1476.8	1423.5	1395.0	1370.3	1215.9
32.5°	1547.7	1564.6	1591.9	1590.1	1575.4	1568.5	1544.7	1488.0	1472.0	1469.4	1288.5
35°	1616.1	1629.1	1653.3	1659.4	1646.4	1645.1	1627.8	1585.8	1586.2	1603.1	1401.9
37.5°	1674.9	1686.6	1715.2	1728.6	1731.2	1737.7	1730.8	1703.1	1742.4	1788.7	1552.1
40°	1724.3	1740.7	1777.1	1800.4	1827.2	1851.0	1852.3	1858.4	1937.6	2017.2	1748.1
42.5°	1762.8	1785.7	1838.5	1881.8	1943.2	1973.5	1997.7	2031.0	2164.3	2283.3	1979.1
45°	1813.0	1839.4	1905.1	1973.1	2069.1	2118.9	2152.6	2241.8	2430.8	2593.1	2216.2
47.5°	1896.0	1909.9	1977.0	2076.0	2202.4	2273.4	2339.1	2474.1	2716.9	2862.2	2413.5
50°	2002.9	2012.0	2062.6	2200.2	2363.8	2457.2	2577.1	2735.9	3013.7	3085.5	2525.2
52.5°	2121.0	2124.1	2162.1	2337.0	2544.6	2662.3	2796.5	2992.5	3255.6	3244.7	2599.2
55°	2258.2	2253.9	2286.3	2485.4	2758.8	2893.4	3049.6	3255.1	3465.4	3357.7	2641.6
57.5°	2415.3	2403.6	2435.2	2682.2	3033.2	3194.1	3352.9	3481.9	3628.1	3452.4	2661.9
60°	2579.7	2556.3	2594.0	2903.3	3356.4	3509.1	3641.1	3675.7	3799.4	3527.7	2626.9
62.5°	2710.8	2711.2	2781.3	3138.7	3688.7	3822.4	3892.5	3923.6	3947.0	3511.3	2442.5
65°	2915.5	2922.4	3034.5	3465.4	4073.3	4189.3	4237.3	4136.1	3953.5	3307.0	2165.6
67.5°	3126.6	3148.7	3353.8	3915.4	4517.7	4611.2	4549.3	4177.2	3776.9	2841.0	1642.1
70°	3195.4	3231.8	3569.7	4225.2	4784.2	4832.7	4623.3	3985.5	3157.3	1899.5	826.4
72.5°	2928.0	2986.9	3445.5	4112.3	4614.2	4572.2	4136.5	3342.5	2007.2	721.3	252.3
75°	2064.8	2090.8	2863.5	3411.3	3711.2	3592.2	3146.5	2154.8	825.6	202.5	86.5
77.5°	1066.1	1053.6	1703.1	2263.4	2646.8	2523.4	2060.5	1115.5	312.8	84.4	53.7
80°	551.2	560.3	736.9	1186.0	1615.7	1486.7	1098.6	517.1	166.6	46.7	41.1
82.5°	308.9	289.9	423.6	517.9	755.5	592.4	421.4	366.1	72.7	28.1	38.9
85°	56.2	58.8	232.4	280.0	262.2	166.6	135.9	244.5	21.2	15.6	27.3
87.5°	0.9	0.9	45.0	80.5	51.1	23.4	42.8	35.0	4.3	6.1	4.8
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°	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7
2.5°	999.9	983.5	952.8	922.5	884.0	852.4	831.2	809.1	786.6	788.4	793.6
5°	982.6	954.1	893.5	829.5	768.0	712.6	658.1	609.2	589.3	571.2	572.0
7.5°	965.3	925.1	836.4	736.0	643.0	548.7	480.3	424.0	394.2	371.7	365.2
10°	957.5	904.3	784.0	646.0	514.0	411.1	323.2	277.4	241.9	230.6	233.7
12.5°	961.0	893.9	736.9	564.7	407.6	286.4	225.0	201.6	193.8	192.5	191.7
15°	967.5	886.6	690.6	474.7	299.4	212.9	189.1	184.8	183.9	183.0	183.5
17.5°	976.1	880.1	641.2	390.3	229.8	186.1	179.1	177.0	176.5	176.5	176.5
20°	984.8	872.7	586.3	315.0	191.7	175.7	171.3	170.0	169.6	169.6	169.2
22.5°	994.8	866.2	530.5	247.5	176.5	168.3	164.4	163.6	163.1	162.7	162.7
25°	1009.0	858.0	471.2	202.5	167.0	161.4	157.5	156.6	156.2	154.5	154.9
27.5°	1028.1	852.0	410.2	174.8	158.4	152.7	150.1	148.8	148.0	146.7	147.1
30°	1054.0	846.8	345.3	159.7	148.4	143.7	141.1	140.2	139.3	138.0	138.0
32.5°	1099.0	848.9	276.9	147.5	139.3	133.7	131.1	130.2	129.4	128.1	128.1
35°	1166.5	861.5	221.5	137.2	128.5	122.9	120.3	120.3	119.0	117.3	116.8
37.5°	1276.9	893.5	177.8	127.2	118.1	112.9	109.9	109.0	107.7	105.1	104.7
40°	1407.1	943.3	149.7	117.3	108.6	103.4	100.8	98.2	94.8	92.2	91.7
42.5°	1570.7	994.3	129.8	107.3	99.5	94.8	91.7	87.4	82.2	78.7	78.3
45°	1741.1	1041.1	116.4	98.2	90.9	87.0	83.5	76.6	70.1	65.8	65.3
47.5°	1868.4	1049.7	105.6	89.6	83.5	79.6	74.9	66.2	57.5	53.7	52.4
50°	1928.5	1007.7	94.3	80.9	76.2	71.8	65.8	55.8	46.3	41.5	40.7
52.5°	1949.7	935.0	85.2	73.1	68.8	63.6	56.2	45.0	36.3	31.6	31.2
55°	1941.0	843.3	77.0	65.8	60.1	54.1	46.7	35.9	26.8	22.9	22.1
57.5°	1895.6	726.5	68.8	58.4	51.5	45.4	37.2	26.8	18.2	14.7	14.3
60°	1773.2	567.3	60.6	50.2	43.7	37.2	29.4	19.0	11.2	8.2	8.2
62.5°	1566.3	421.0	52.8	42.0	36.8	29.9	20.8	12.1	6.1	4.3	3.9
65°	1308.9	310.7	44.1	35.5	30.7	23.4	14.7	7.4	3.0	1.3	0.9
67.5°	913.4	191.7	36.8	29.0	25.1	16.9	9.1	3.0	1.3	0.0	0.0
70°	414.9	91.3	28.1	22.1	19.0	12.1	4.8	1.7	0.9	0.0	0.0
72.5°	128.9	48.0	19.9	16.0	13.0	7.8	2.6	1.3	0.9	0.0	0.0
75°	59.7	30.7	12.5	8.7	7.4	3.9	1.7	0.9	0.4	0.0	0.0
77.5°	44.6	23.8	7.4	4.8	3.9	2.6	1.3	0.9	0.4	0.0	0.0
80°	38.9	12.1	4.3	3.0	2.2	1.7	0.9	0.4	0.0	0.0	0.0
82.5°	35.0	6.1	2.6	1.7	1.3	0.9	0.4	0.4	0.0	0.0	0.0
85°	19.0	3.5	1.7	1.3	0.9	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	1.3	0.9	0.9	0.4	0.4	0.4	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)