

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386724

Luminaire Tested: GAW-SA2B-830-U-SL4-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-830-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 800mA 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: 7692 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

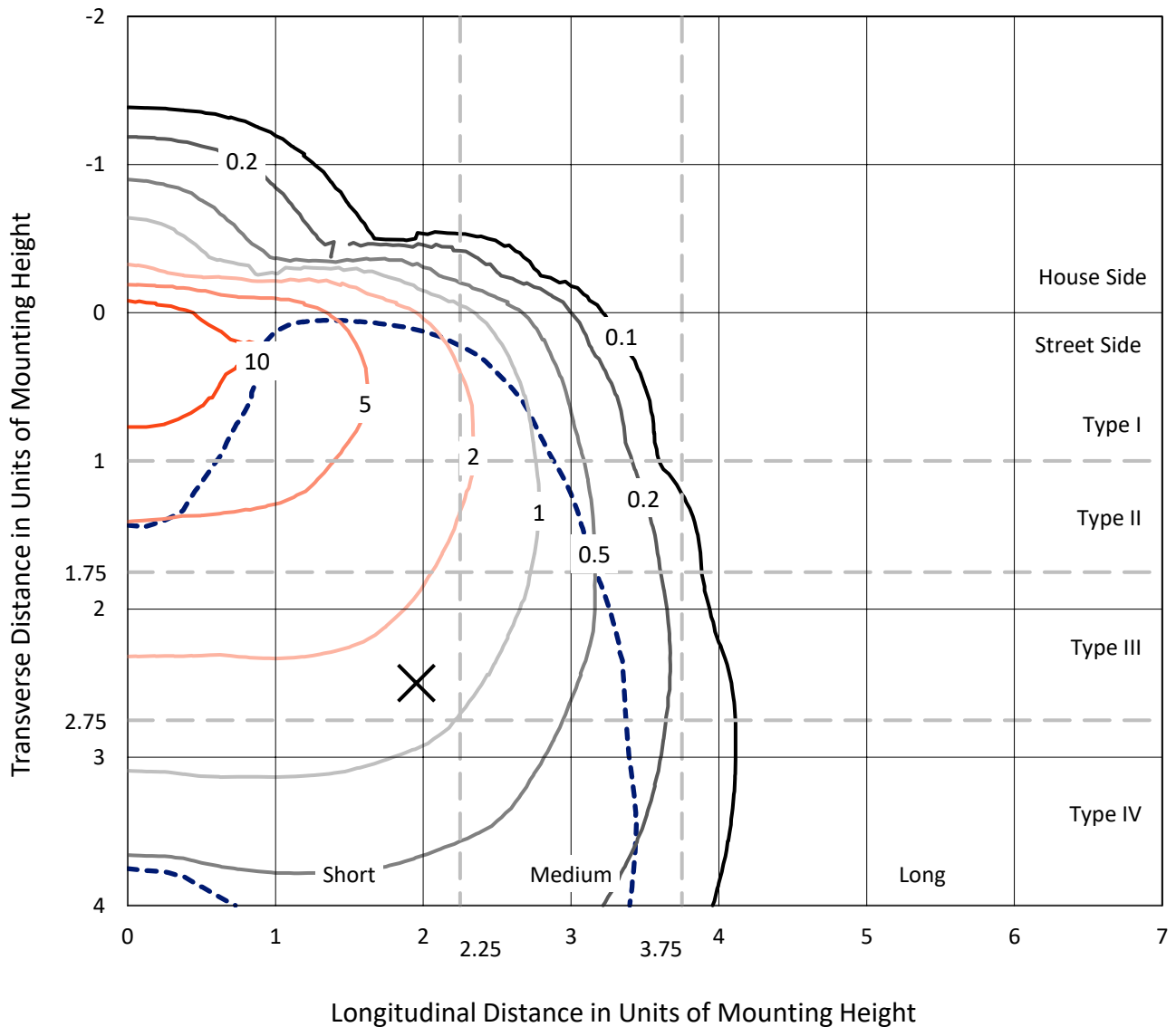
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

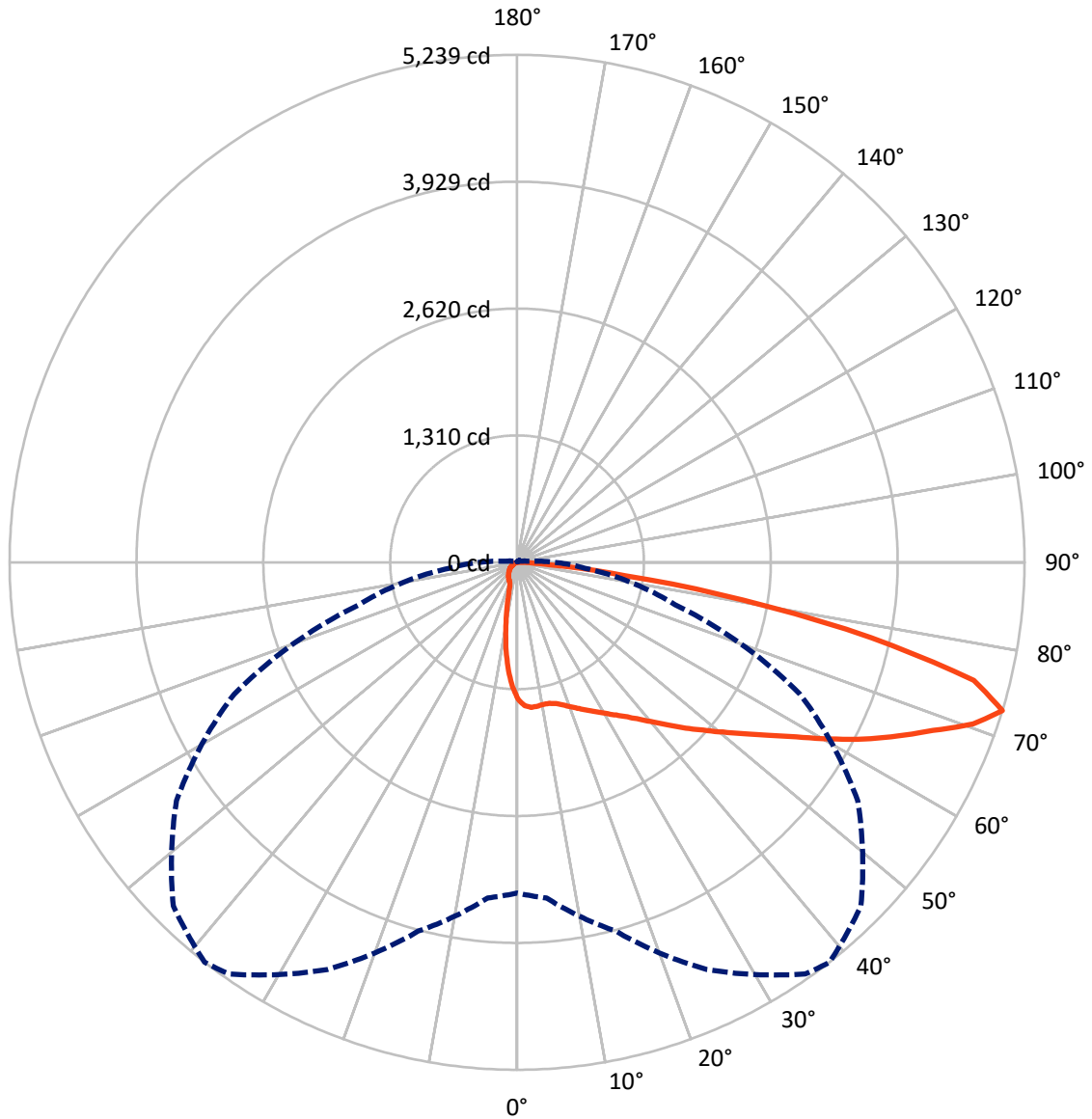
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: GAW-SA2B-830-U-SL4-HSS

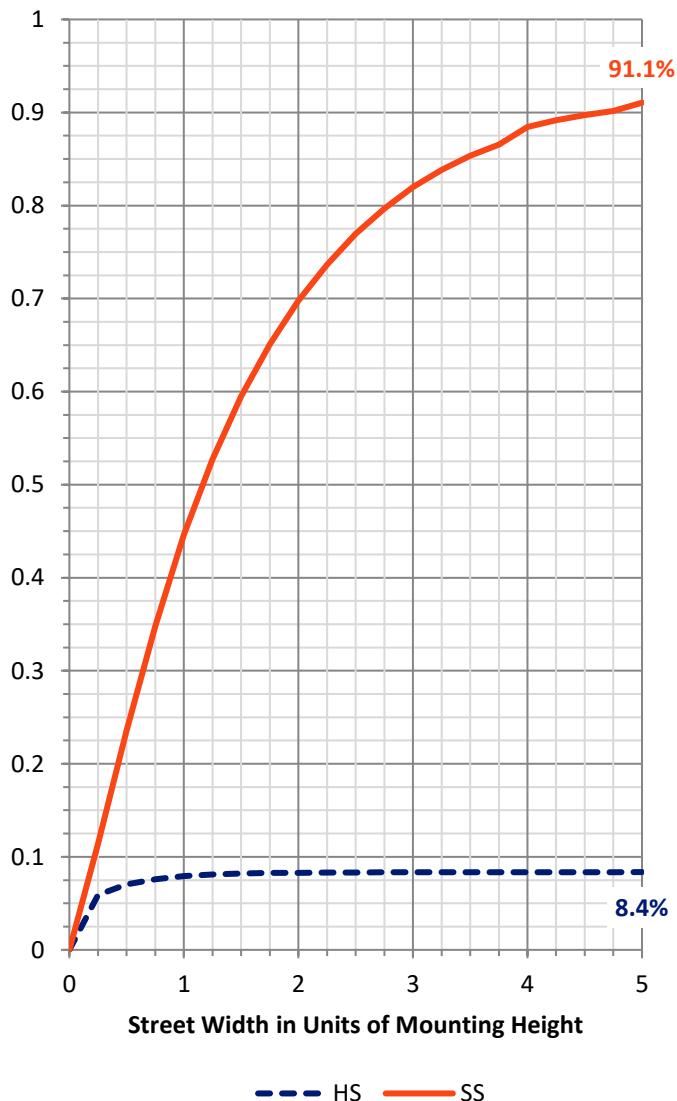
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	647.3	0.0	647.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	7044.7	0.0	7044.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	7692.0	0.0	7692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	1.6
10°-20°	294.8	3.8
20°-30°	468.8	6.1
30°-40°	704.8	9.2
40°-50°	1075.2	14.0
50°-60°	1519.7	19.8
60°-70°	1906.2	24.8
70°-80°	1425.3	18.5
80°-90°	176.7	2.3
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°	7692.0	100.0
0°-180°	7692.0	100.0

**Coefficient of Utilization**

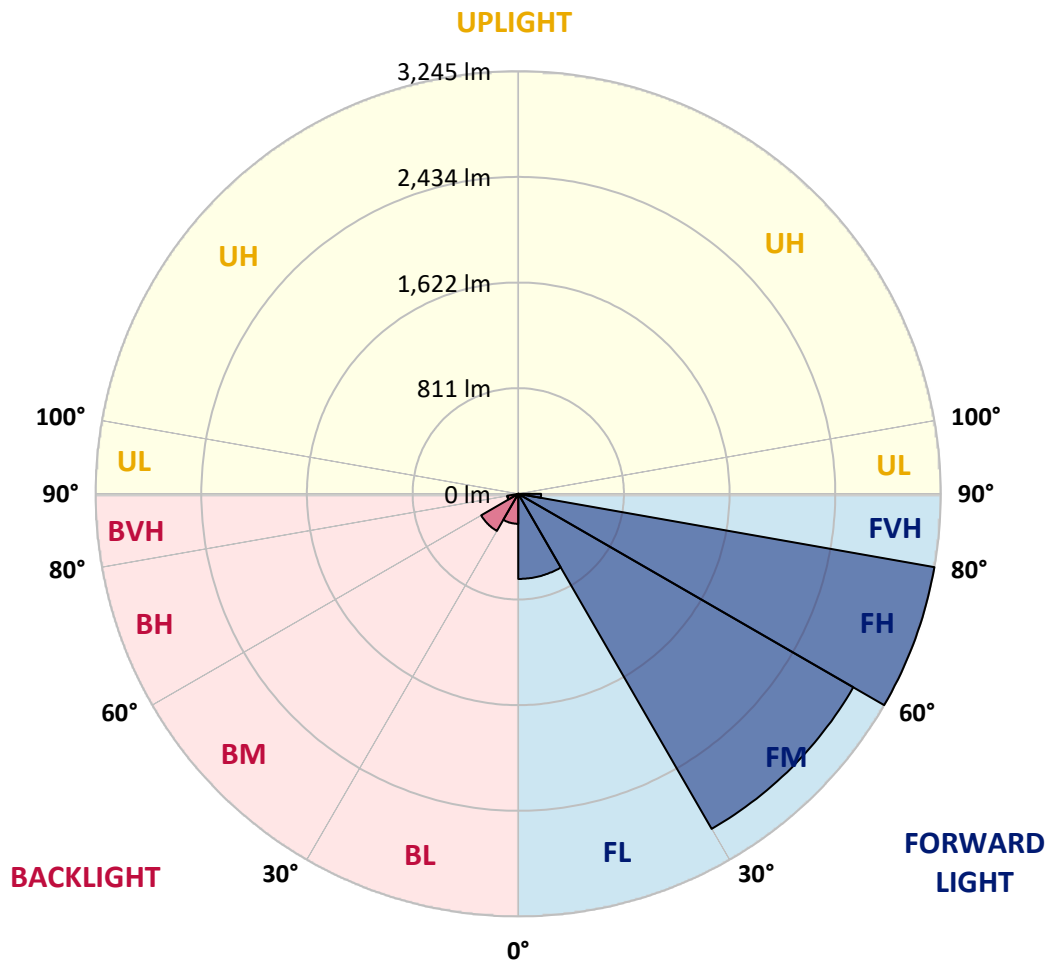


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 CATALOG NUMBER: GAW-SA2B-830-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.6	8.5			
FM (30°-60°)	2971.0	38.6			
FH (60°-80°)	3245.0	42.2			G2/5000
FVH (80°-90°)	175.1	2.3			G2/225
BL (0°-30°)	230.5	3.0	B1/500		
BM (30°-60°)	328.7	4.3	B1/1000		
BH (60°-80°)	86.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	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°	38°	45°	55°	65°	75°	85°
0°	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5
2.5°	1501.4	1501.7	1498.2	1492.5	1485.1	1481.3	1474.9	1464.7	1453.8	1434.3	1413.3
5°	1532.1	1532.1	1527.6	1520.0	1508.1	1504.6	1492.5	1476.2	1453.8	1422.2	1386.7
7.5°	1528.9	1529.5	1523.5	1515.5	1503.7	1500.5	1485.8	1467.6	1439.8	1401.4	1356.1
10°	1512.3	1513.9	1509.1	1505.3	1494.4	1490.9	1477.1	1458.9	1431.1	1390.3	1338.2
12.5°	1495.4	1497.0	1498.5	1502.1	1495.4	1494.1	1483.2	1467.9	1441.4	1398.9	1340.1
15°	1484.5	1487.7	1499.2	1512.9	1514.5	1513.2	1506.2	1491.8	1465.0	1420.9	1353.8
17.5°	1484.5	1489.6	1513.6	1539.8	1549.0	1550.0	1543.9	1523.8	1491.8	1444.6	1366.6
20°	1497.0	1504.0	1541.4	1578.4	1593.7	1593.7	1581.9	1553.8	1516.4	1466.0	1375.2
22.5°	1528.9	1538.2	1585.1	1627.9	1644.2	1640.7	1624.7	1583.8	1542.0	1490.2	1386.1
25°	1591.8	1598.9	1647.7	1690.9	1700.8	1692.8	1672.7	1620.3	1574.6	1523.1	1405.9
27.5°	1673.0	1673.9	1724.4	1760.8	1754.7	1749.3	1724.1	1665.9	1621.5	1570.1	1440.1
30°	1762.1	1762.1	1806.5	1834.3	1815.8	1811.3	1786.1	1721.2	1681.6	1634.0	1488.6
32.5°	1848.3	1852.2	1888.3	1905.9	1885.1	1880.6	1856.0	1791.2	1761.5	1731.4	1564.4
35°	1931.7	1934.6	1968.8	1978.4	1958.6	1959.8	1942.3	1887.3	1876.1	1872.3	1678.4
37.5°	2012.5	2013.2	2048.0	2054.1	2044.2	2055.0	2056.6	2008.1	2028.8	2059.8	1839.1
40°	2086.3	2087.0	2121.5	2137.1	2154.1	2168.1	2180.6	2154.7	2223.4	2295.3	2030.4
42.5°	2145.4	2152.1	2195.9	2225.6	2270.3	2297.2	2331.0	2329.8	2455.0	2563.0	2261.7
45°	2197.5	2209.0	2270.0	2322.1	2398.8	2441.6	2494.6	2536.1	2715.7	2861.0	2495.9
47.5°	2266.2	2277.1	2346.7	2432.0	2534.2	2590.4	2678.3	2768.1	3002.2	3153.6	2724.6
50°	2363.0	2358.2	2426.9	2549.2	2680.5	2754.3	2879.5	3014.0	3286.5	3408.6	2859.1
52.5°	2466.2	2464.3	2515.0	2676.7	2853.0	2939.3	3104.8	3268.3	3558.4	3584.3	2920.7
55°	2594.0	2580.2	2623.0	2822.0	3057.8	3150.4	3345.3	3520.0	3775.0	3683.3	2951.7
57.5°	2727.8	2705.1	2746.0	2984.0	3288.8	3398.3	3611.7	3765.4	3919.0	3751.0	2951.4
60°	2866.1	2839.3	2887.8	3186.5	3575.6	3702.4	3900.5	3931.2	4053.5	3785.2	2929.7
62.5°	2981.8	2965.8	3038.0	3403.1	3896.0	4020.6	4118.7	4082.0	4166.9	3811.7	2878.9
65°	3104.1	3105.1	3221.7	3655.8	4236.6	4320.6	4328.9	4277.5	4261.8	3806.3	2707.0
67.5°	3269.6	3284.9	3479.5	3998.9	4567.8	4632.7	4632.1	4489.3	4331.1	3590.3	2325.9
70°	3444.7	3480.7	3776.6	4391.5	4929.5	4995.3	4961.4	4624.1	4078.1	2903.2	1646.1
72.5°	3415.3	3477.9	3941.7	4639.1	5189.2	5239.3	5019.2	4292.8	3223.3	1687.3	700.9
75°	2634.8	2707.4	3614.3	4393.7	4916.7	4871.6	4312.6	3340.5	1761.5	470.9	157.8
77.5°	1391.9	1430.5	2387.6	3347.2	3833.7	3739.5	3038.0	1853.1	537.0	116.6	70.9
80°	729.0	737.9	1040.5	1899.1	2366.2	2366.8	1800.4	814.0	221.4	59.7	47.6
82.5°	390.4	398.0	549.8	877.5	1239.8	1123.8	689.4	447.9	128.7	33.9	45.7
85°	93.9	95.5	311.8	400.9	487.5	348.2	204.8	376.0	34.8	19.8	37.1
87.5°	36.1	36.7	115.6	173.5	124.3	80.5	95.8	140.2	4.5	7.7	5.8
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: P386724

CATALOG NUMBER: GAW-SA2B-830-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5
2.5°	1400.5	1392.2	1371.7	1345.9	1322.9	1306.2	1281.3	1265.0	1254.2	1253.8	1249.7
5°	1365.0	1348.1	1304.0	1251.6	1204.0	1161.2	1110.7	1070.8	1041.1	1036.3	1026.1
7.5°	1327.0	1299.2	1231.5	1149.7	1069.8	988.7	894.5	836.0	785.9	761.9	759.3
10°	1303.7	1264.7	1168.6	1050.4	925.1	793.2	669.9	584.6	522.9	505.4	492.3
12.5°	1298.9	1247.5	1120.0	957.1	778.2	603.8	467.4	376.6	327.4	311.8	307.6
15°	1303.7	1239.5	1079.1	864.8	629.3	428.4	313.7	261.0	242.5	238.0	237.7
17.5°	1306.6	1229.9	1032.8	762.2	484.9	306.0	240.2	224.9	222.0	221.7	222.3
20°	1306.2	1215.2	977.5	647.8	360.7	240.5	217.2	214.0	213.4	213.7	213.4
22.5°	1304.0	1197.9	916.8	530.0	272.5	215.0	207.3	205.4	205.1	205.1	205.1
25°	1308.2	1184.2	850.1	417.2	224.6	203.2	198.4	196.8	196.5	196.5	195.8
27.5°	1323.2	1176.5	776.9	321.0	202.9	192.6	188.8	188.5	187.5	187.2	187.8
30°	1347.4	1176.5	696.7	249.8	189.8	181.8	178.9	178.3	177.9	177.6	177.9
32.5°	1390.3	1185.5	609.2	207.6	177.3	169.6	167.7	168.7	167.7	167.7	167.7
35°	1467.6	1212.3	517.5	181.1	164.2	157.8	155.9	157.2	156.5	156.5	156.2
37.5°	1580.3	1262.2	425.2	165.2	152.7	146.0	143.4	145.4	144.7	144.7	144.4
40°	1717.7	1334.7	337.3	153.0	141.5	134.5	132.3	133.2	131.6	131.6	132.3
42.5°	1887.3	1426.7	260.7	141.2	130.3	123.6	122.4	121.4	118.5	116.9	117.2
45°	2075.8	1522.5	203.2	129.7	119.8	114.4	112.4	109.9	105.1	101.9	102.2
47.5°	2244.2	1596.3	165.2	118.5	110.2	106.1	103.2	98.4	91.4	87.5	87.8
50°	2332.6	1607.5	140.6	107.3	101.3	97.1	93.0	85.6	77.3	73.2	72.8
52.5°	2355.3	1555.1	122.4	97.1	92.3	87.5	82.1	72.2	62.9	58.5	57.8
55°	2363.6	1475.2	106.1	87.5	82.7	77.3	70.3	59.1	50.5	46.0	45.7
57.5°	2336.2	1356.1	93.3	78.9	73.2	66.4	57.8	47.3	39.0	35.5	35.5
60°	2275.1	1194.8	83.4	69.6	63.3	55.6	46.6	36.7	29.1	26.2	26.2
62.5°	2153.4	985.8	74.1	60.1	54.0	46.0	37.7	27.8	20.4	18.8	19.2
65°	1923.7	747.8	64.8	51.4	46.0	38.0	29.4	19.8	13.7	13.7	14.4
67.5°	1568.8	519.4	55.3	43.8	39.6	31.0	22.4	13.7	9.6	10.9	12.1
70°	1038.5	291.3	47.3	36.1	33.9	24.6	16.6	9.3	7.7	10.2	12.5
72.5°	392.0	113.4	39.6	29.1	29.4	18.8	11.8	7.0	7.0	11.2	14.7
75°	109.3	55.6	28.4	21.4	23.0	13.7	8.6	6.1	6.7	12.8	17.3
77.5°	64.2	40.9	18.5	12.5	15.7	9.6	5.8	4.8	5.8	10.9	16.6
80°	51.8	21.7	10.9	6.4	8.6	5.4	3.8	2.9	1.6	4.2	8.6
82.5°	51.8	13.1	5.1	4.5	4.5	2.9	1.9	1.3	0.3	0.0	2.2
85°	34.8	5.4	3.2	2.9	2.2	1.0	0.6	0.3	0.0	0.0	0.0
87.5°	5.8	2.2	1.3	0.6	0.3	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)