

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: STREETWORKS

Report Number: P507745

Luminaire Tested: **VERD-S-CA1-80-750-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-80-750-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1500mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11081 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.1  
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

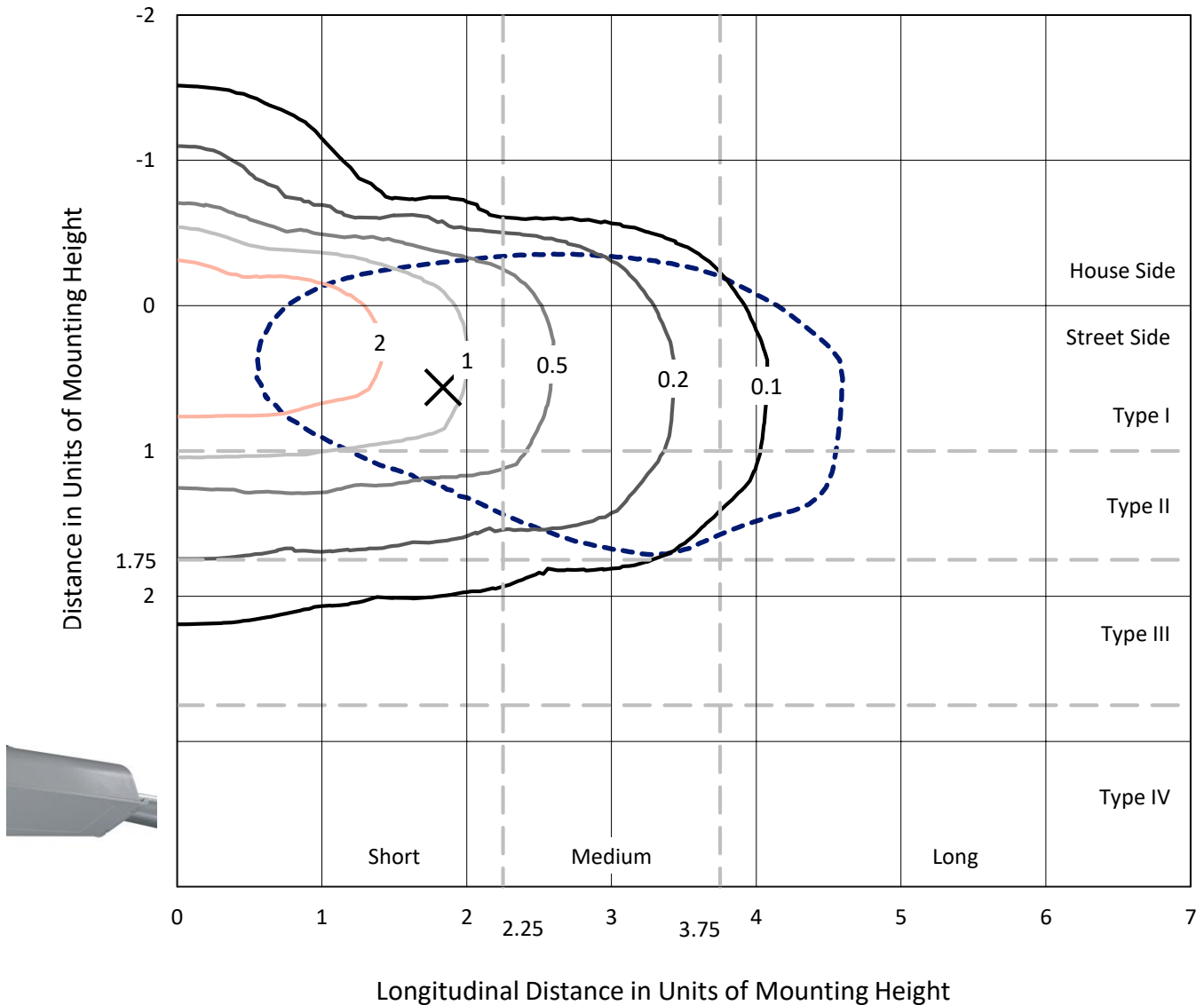


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### Iso-Footcandle Lines of Horizontal Illumination

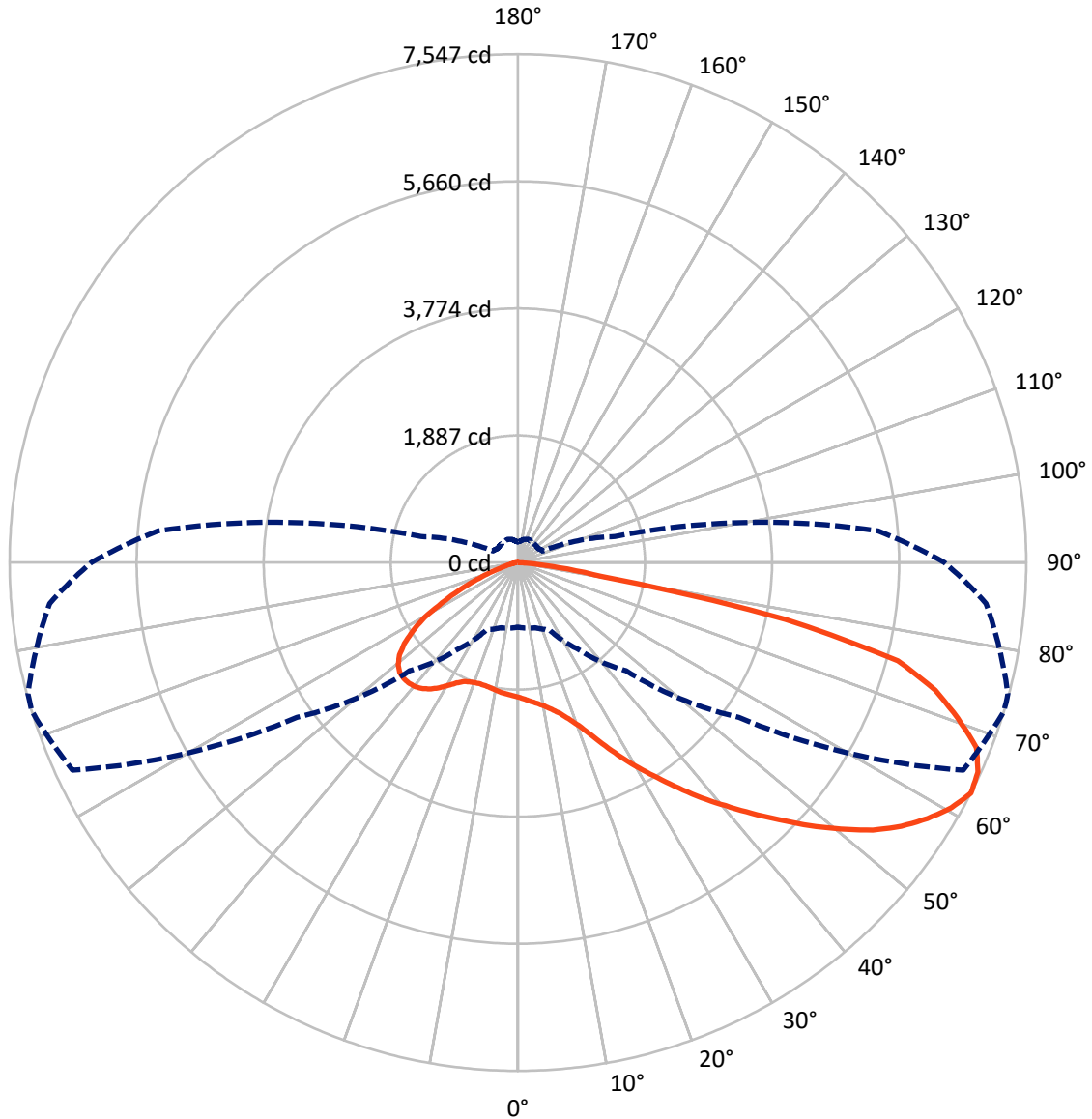
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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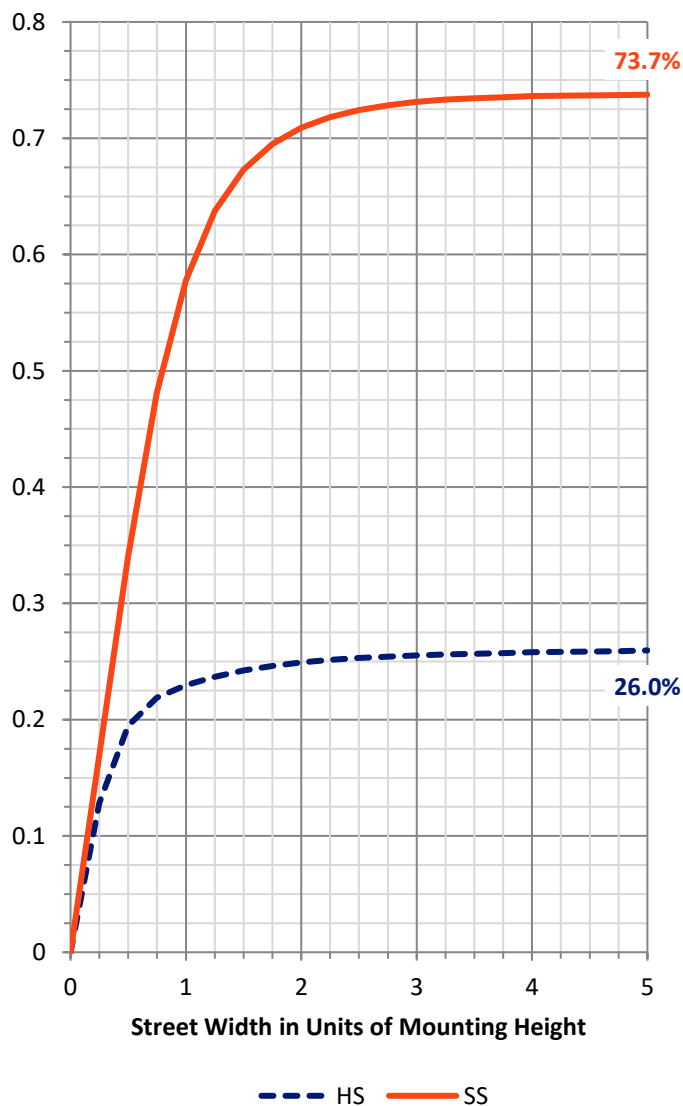
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2918.9	0.0	2918.9
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	8162.1	0.0	8162.1
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	11081.0	0.0	11081.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.5	1.7
10°-20°	591.3	5.3
20°-30°	1023.5	9.2
30°-40°	1482.2	13.4
40°-50°	1898.5	17.1
50°-60°	2198.0	19.8
60°-70°	2213.4	20.0
70°-80°	1353.2	12.2
80°-90°	127.4	1.1
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°	11081.0	100.0
0°-180°	11081.0	100.0

**Coefficient of Utilization**



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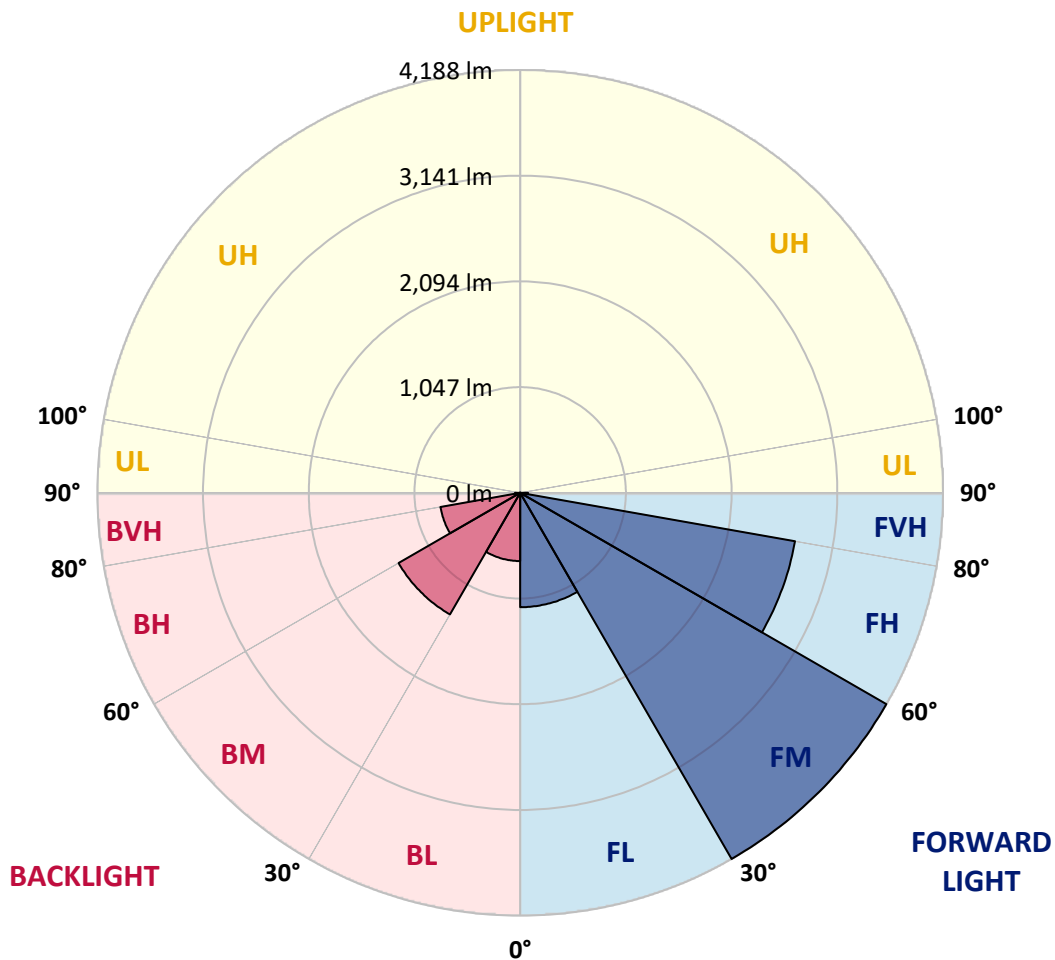
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.5	10.2			
FM (30°-60°)	4188.3	37.8			
FH (60°-80°)	2764.3	24.9			G2/5000
FVH (80°-90°)	77.0	0.7			G1/100
BL (0°-30°)	675.7	6.1	B2/1000		
BM (30°-60°)	1390.5	12.5	B2/2500		
BH (60°-80°)	802.3	7.2	B2/1000		G2/1000
BVH (80°-90°)	50.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5
2.5°	2104.6	2101.5	2095.2	2092.1	2085.9	2070.2	2060.9	2045.3	2032.8	2029.7	2010.9
5°	2207.6	2210.8	2207.6	2198.3	2185.8	2163.9	2132.7	2092.1	2073.4	2067.1	2035.9
7.5°	2304.4	2304.4	2301.3	2288.8	2276.3	2248.2	2204.5	2157.7	2114.0	2101.5	2060.9
10°	2398.1	2398.1	2388.7	2376.3	2357.5	2323.2	2279.5	2220.1	2167.0	2148.3	2079.6
12.5°	2498.0	2494.9	2482.4	2463.7	2438.7	2410.6	2363.8	2298.2	2238.9	2217.0	2120.2
15°	2576.1	2576.1	2566.7	2554.2	2532.4	2498.0	2454.3	2398.1	2320.0	2301.3	2176.4
17.5°	2644.8	2647.9	2641.7	2641.7	2622.9	2598.0	2560.5	2513.6	2438.7	2410.6	2260.7
20°	2701.0	2697.9	2710.4	2719.7	2726.0	2710.4	2688.5	2657.3	2582.3	2554.2	2370.0
22.5°	2726.0	2732.2	2769.7	2816.5	2844.6	2847.8	2844.6	2841.5	2775.9	2738.5	2519.9
25°	2738.5	2747.8	2804.0	2885.2	2947.7	2994.5	3044.5	3075.7	3016.4	2988.3	2744.7
27.5°	2751.0	2760.3	2825.9	2925.8	3044.5	3156.9	3256.8	3316.1	3272.4	3238.1	2975.8
30°	2729.1	2738.5	2813.4	2953.9	3122.5	3319.3	3459.8	3544.1	3537.8	3516.0	3241.2
32.5°	2682.3	2691.6	2775.9	2950.8	3203.7	3484.8	3640.9	3781.4	3809.5	3787.6	3506.6
35°	2598.0	2610.4	2707.2	2913.3	3241.2	3622.1	3831.4	4037.4	4109.3	4112.4	3797.0
37.5°	2482.4	2488.7	2607.3	2841.5	3253.7	3718.9	3990.6	4284.1	4430.9	4434.0	4093.6
40°	2326.3	2341.9	2488.7	2751.0	3225.6	3787.6	4149.9	4552.7	4746.3	4724.4	4415.3
42.5°	2148.3	2160.8	2304.4	2607.3	3160.0	3828.2	4296.6	4833.7	5089.7	5077.2	4718.2
45°	1989.1	2007.8	2117.1	2407.5	3035.1	3837.6	4424.6	5114.7	5445.7	5430.1	5027.3
47.5°	1776.7	1823.6	1970.3	2229.5	2847.8	3797.0	4540.2	5495.7	5839.1	5817.3	5352.0
50°	1367.7	1383.3	1692.4	2079.6	2635.4	3697.1	4640.1	5848.5	6220.1	6204.5	5692.4
52.5°	1233.4	1245.9	1345.8	1907.9	2423.1	3519.1	4699.4	6301.3	6601.0	6557.3	5998.4
55°	1158.5	1171.0	1227.2	1523.8	2238.9	3250.6	4711.9	6685.4	6910.2	6869.6	6285.7
57.5°	1089.8	1099.1	1152.2	1305.2	2026.5	2879.0	4646.3	6994.5	7172.5	7131.9	6544.8
60°	1017.9	1027.3	1083.5	1186.6	1764.2	2538.6	4430.9	7234.9	7394.2	7353.6	6779.0
62.5°	958.6	974.2	1002.3	1099.1	1576.9	2273.2	4009.3	7294.3	7547.2	7531.6	6978.9
65°	886.8	893.0	936.8	1014.8	1392.7	2089.0	3556.6	7122.5	7506.6	7534.7	7097.5
67.5°	805.6	808.7	849.3	905.5	1164.7	1907.9	3153.8	6891.4	7344.2	7391.0	7010.1
70°	696.3	699.4	736.9	796.2	964.9	1654.9	2738.5	6551.1	6928.9	6972.6	6672.9
72.5°	580.8	580.8	612.0	677.6	796.2	1370.8	2192.0	5804.8	6482.4	6554.2	6123.3
75°	252.9	262.3	315.4	377.8	515.2	1008.6	1495.7	4493.3	5826.7	5876.6	5367.6
77.5°	68.7	68.7	81.2	106.2	149.9	449.6	474.6	1976.6	4059.3	4187.3	3968.7
80°	56.2	56.2	62.5	81.2	103.0	221.7	159.2	637.0	1255.3	1654.9	2057.8
82.5°	31.2	31.2	37.5	46.8	56.2	56.2	56.2	324.7	618.3	658.9	861.8
85°	15.6	18.7	18.7	21.9	21.9	18.7	18.7	65.6	118.7	134.3	206.1
87.5°	6.2	6.2	6.2	6.2	3.1	3.1	6.2	9.4	9.4	12.5	15.6
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°	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5
2.5°	2004.7	1995.3	1982.8	1973.4	1954.7	1936.0	1923.5	1914.1	1911.0	1907.9	1907.9
5°	2017.2	2001.5	1967.2	1932.9	1904.7	1879.8	1857.9	1842.3	1836.1	1832.9	1832.9
7.5°	2035.9	2014.0	1957.8	1907.9	1857.9	1820.4	1786.1	1764.2	1751.7	1754.9	1764.2
10°	2045.3	2010.9	1936.0	1886.0	1820.4	1761.1	1720.5	1695.5	1686.2	1686.2	1683.0
12.5°	2070.2	2020.3	1920.4	1842.3	1786.1	1704.9	1658.1	1636.2	1623.7	1605.0	1598.7
15°	2107.7	2045.3	1914.1	1811.1	1723.6	1651.8	1589.4	1558.1	1548.8	1523.8	1523.8
17.5°	2176.4	2089.0	1914.1	1776.7	1664.3	1595.6	1514.4	1470.7	1464.5	1448.9	1445.7
20°	2257.6	2148.3	1929.7	1742.4	1601.9	1511.3	1420.8	1377.0	1361.4	1345.8	1345.8
22.5°	2385.6	2238.9	1957.8	1717.4	1536.3	1423.9	1324.0	1261.5	1236.5	1233.4	1227.2
25°	2582.3	2382.5	2001.5	1692.4	1470.7	1327.1	1227.2	1146.0	1105.4	1099.1	1096.0
27.5°	2797.8	2579.2	2089.0	1670.6	1398.9	1217.8	1099.1	1011.7	961.7	955.5	952.4
30°	3028.9	2782.2	2204.5	1651.8	1308.3	1092.9	958.6	874.3	827.5	815.0	818.1
32.5°	3281.8	3000.8	2329.4	1636.2	1211.5	930.5	805.6	749.4	699.4	677.6	680.7
35°	3528.5	3194.4	2438.7	1623.7	1083.5	783.8	687.0	627.6	577.7	549.6	549.6
37.5°	3806.4	3422.3	2529.3	1598.7	946.1	683.8	590.2	530.8	493.4	468.4	468.4
40°	4078.0	3650.2	2601.1	1551.9	793.1	602.6	487.1	452.8	427.8	412.2	405.9
42.5°	4343.5	3878.2	2647.9	1473.8	665.1	505.9	405.9	402.8	405.9	390.3	387.2
45°	4618.2	4103.0	2682.3	1348.9	574.5	418.4	362.2	384.1	405.9	399.7	399.7
47.5°	4918.0	4321.6	2710.4	1146.0	487.1	368.5	359.1	380.9	409.1	412.2	412.2
50°	5205.3	4543.3	2701.0	886.8	427.8	365.3	362.2	368.5	405.9	415.3	409.1
52.5°	5473.8	4733.8	2626.1	646.4	399.7	371.6	371.6	365.3	396.6	402.8	405.9
55°	5745.5	4911.8	2457.4	512.1	384.1	371.6	387.2	371.6	380.9	384.1	390.3
57.5°	5992.2	5092.9	2207.6	459.0	380.9	371.6	387.2	377.8	377.8	365.3	362.2
60°	6182.6	5242.7	1904.7	437.2	371.6	374.7	380.9	380.9	371.6	343.5	334.1
62.5°	6332.5	5367.6	1489.5	409.1	365.3	368.5	365.3	377.8	356.0	315.4	306.0
65°	6416.8	5389.5	1139.7	377.8	349.7	362.2	352.8	349.7	331.0	287.3	268.5
67.5°	6323.1	5236.5	796.2	346.6	331.0	352.8	337.2	324.7	302.9	262.3	237.3
70°	5960.9	4793.1	524.6	306.0	306.0	331.0	318.5	299.8	271.7	240.4	212.3
72.5°	5280.2	4131.1	315.4	252.9	271.7	302.9	296.6	271.7	190.5	146.8	128.0
75°	4465.2	3394.2	203.0	190.5	221.7	271.7	274.8	243.6	162.4	131.1	131.1
77.5°	3244.3	2229.5	118.7	106.2	146.8	218.6	234.2	178.0	174.9	243.6	178.0
80°	1664.3	1080.4	90.6	65.6	78.1	162.4	131.1	134.3	265.4	196.7	124.9
82.5°	721.3	427.8	56.2	46.8	50.0	81.2	84.3	221.7	206.1	115.5	78.1
85°	153.0	81.2	31.2	31.2	31.2	37.5	46.8	240.4	128.0	59.3	25.0
87.5°	15.6	15.6	15.6	15.6	15.6	15.6	12.5	12.5	12.5	9.4	9.4
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)