

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: P507674

Luminaire Tested: **VERD-S-CA1-70-727-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-70-727-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1330mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7770 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

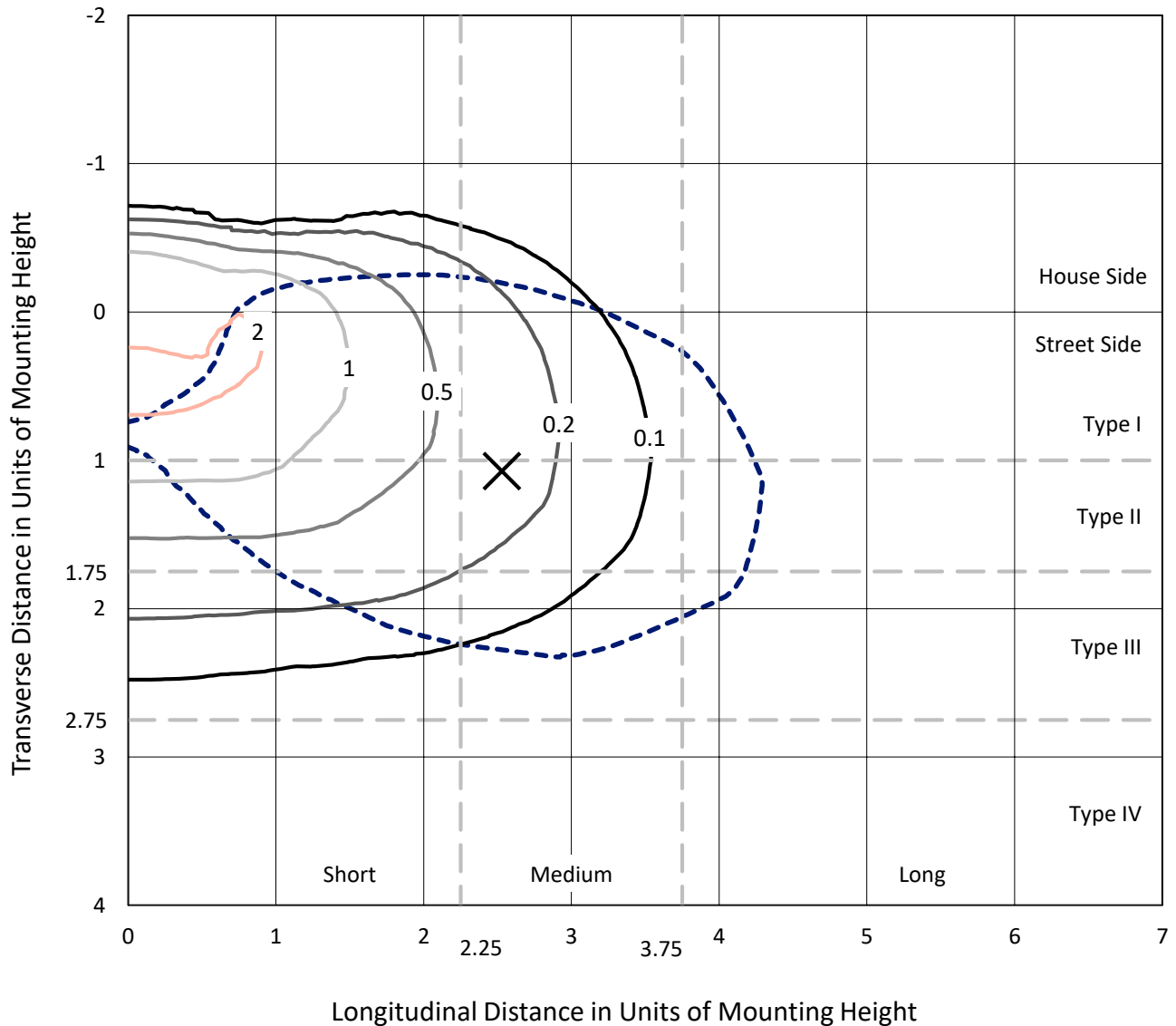
Input Watts (W): 73.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P507674  
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### Iso-Footcandle Lines of Horizontal Illumination

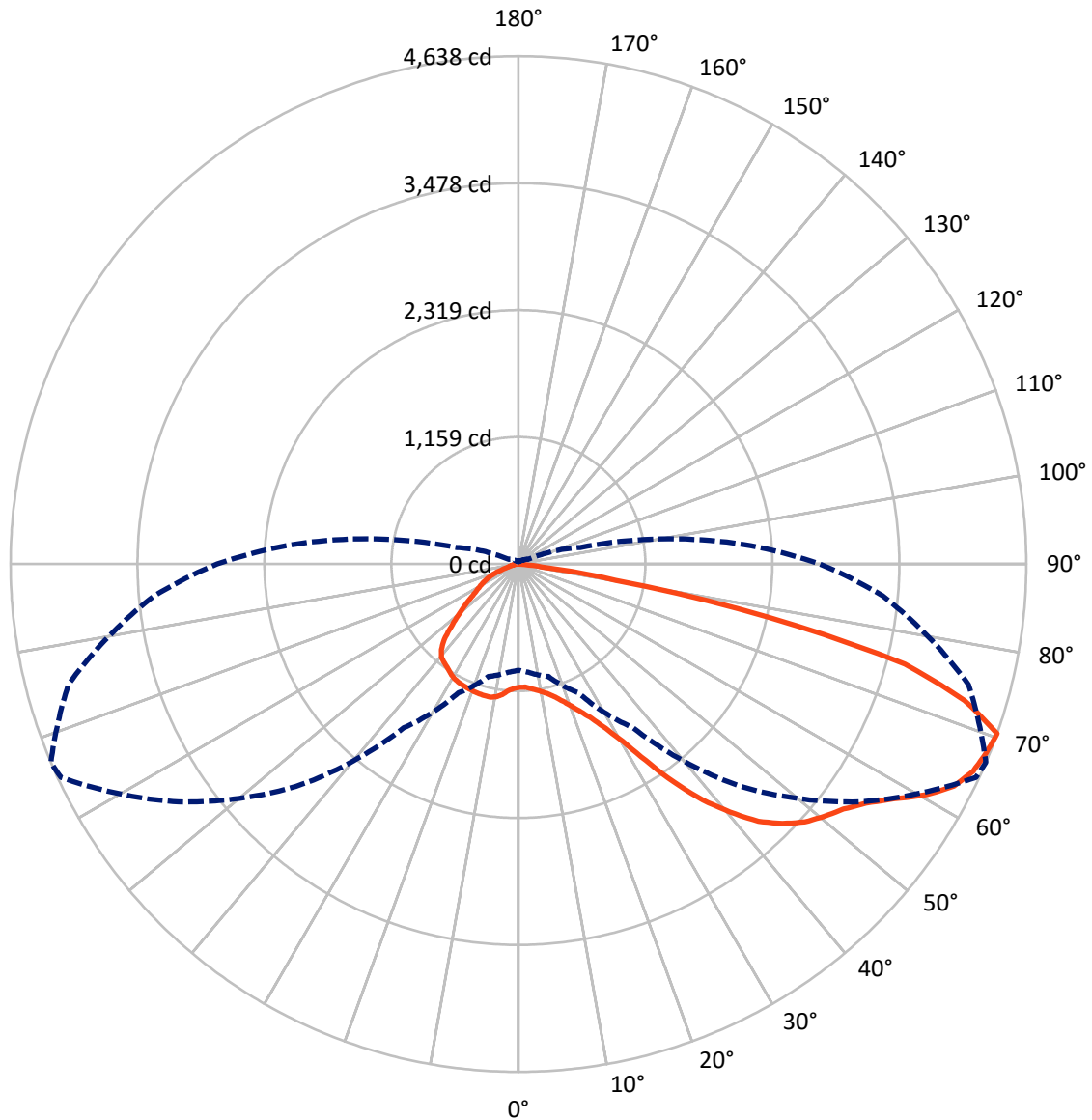
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P507674  
CATALOG NUMBER: VERD-S-CA1-70-727-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: VERD-S-CA1-70-727-U-T3-HSS

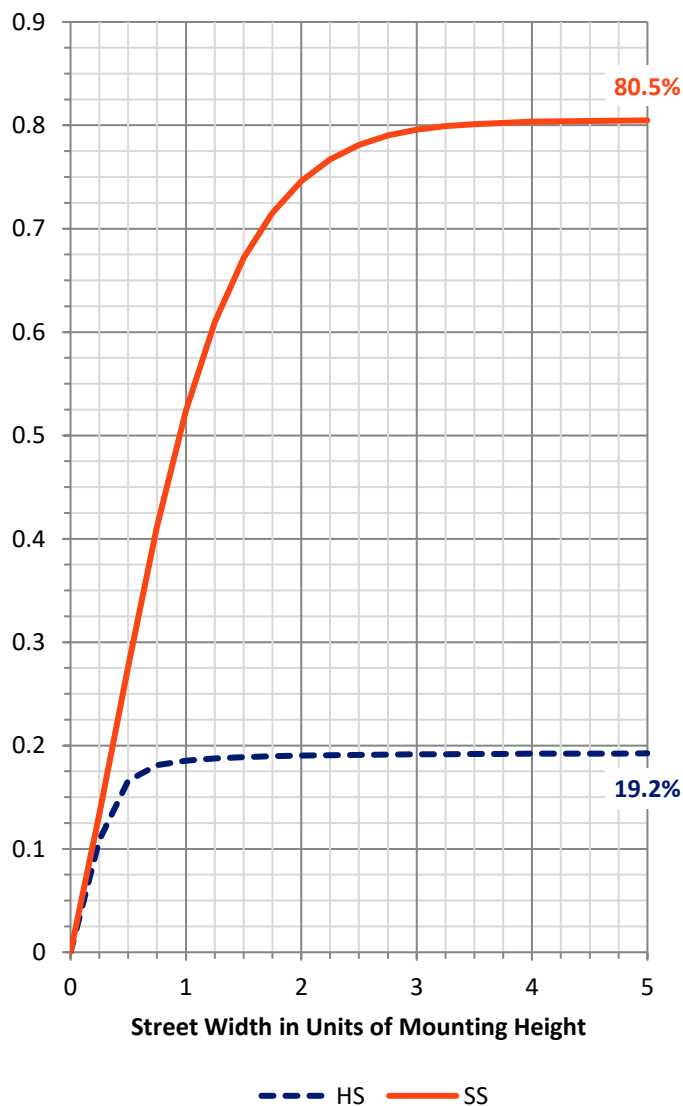
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1514.2	0.0	1514.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	6255.8	0.0	6255.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	7770.0	0.0	7770.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	1.5
10°-20°	358.7	4.6
20°-30°	623.3	8.0
30°-40°	976.1	12.6
40°-50°	1373.4	17.7
50°-60°	1638.0	21.1
60°-70°	1697.3	21.8
70°-80°	936.6	12.1
80°-90°	53.3	0.7
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°	7770.0	100.0
0°-180°	7770.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507674

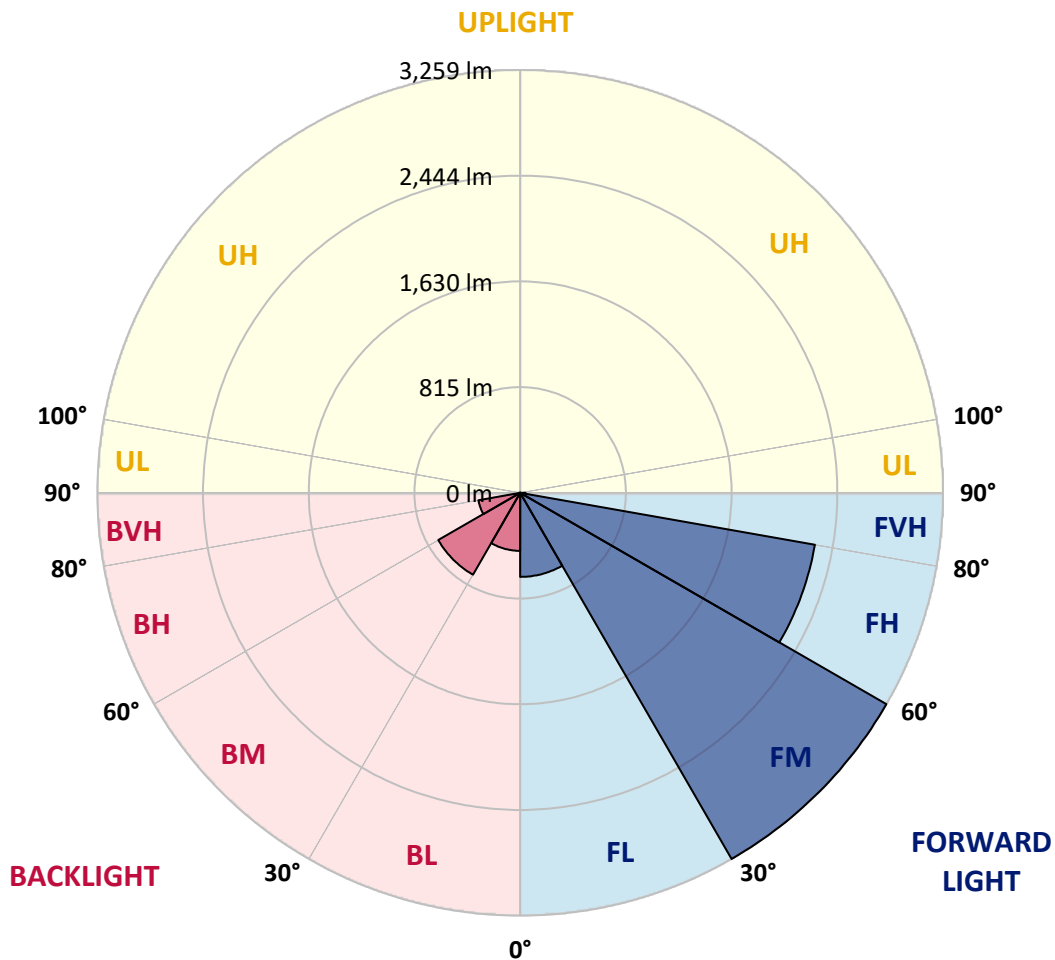
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.1	8.3			
FM (30°-60°)	3259.1	41.9			
FH (60°-80°)	2307.1	29.7			G2/5000
FVH (80°-90°)	41.4	0.5			G1/100
BL (0°-30°)	447.1	5.8	B1/500		
BM (30°-60°)	728.4	9.4	B1/1000		
BH (60°-80°)	326.9	4.2	B1/500		G1/500
BVH (80°-90°)	11.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





REPORT NUMBER: P507674

CATALOG NUMBER: VERD-S-CA1-70-727-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	1132.3	1132.3	1132.3	1129.9	1129.9	1129.9	1127.6	1125.2	1125.2	1125.2	1127.6
5°	1163.0	1163.0	1160.6	1158.3	1155.9	1148.8	1144.1	1141.7	1141.7	1139.4	1144.1
7.5°	1200.7	1200.7	1200.7	1196.0	1188.9	1179.5	1170.0	1163.0	1160.6	1158.3	1160.6
10°	1257.3	1257.3	1252.6	1245.5	1233.7	1219.6	1203.1	1188.9	1186.6	1181.8	1186.6
12.5°	1330.5	1323.4	1318.7	1306.9	1292.7	1269.1	1243.2	1221.9	1217.2	1212.5	1229.0
15°	1405.9	1403.6	1391.8	1384.7	1361.1	1330.5	1295.1	1266.8	1262.0	1252.6	1266.8
17.5°	1495.6	1497.9	1493.2	1481.4	1448.4	1403.6	1361.1	1321.0	1316.3	1309.2	1316.3
20°	1618.3	1613.5	1604.1	1587.6	1549.8	1490.9	1436.6	1391.8	1384.7	1380.0	1372.9
22.5°	1740.9	1743.3	1724.4	1707.9	1660.7	1604.1	1531.0	1476.7	1467.3	1464.9	1431.9
25°	1858.9	1863.6	1856.5	1835.3	1795.2	1722.0	1641.8	1575.8	1564.0	1561.6	1505.0
27.5°	1981.5	1983.9	1991.0	1981.5	1939.1	1863.6	1773.9	1698.5	1698.5	1679.6	1594.7
30°	2099.5	2104.2	2108.9	2108.9	2087.7	2021.6	1943.8	1877.7	1877.7	1863.6	1717.3
32.5°	2191.5	2193.8	2222.2	2245.7	2245.7	2198.6	2146.7	2139.6	2137.2	2163.2	1998.0
35°	2274.0	2281.1	2321.2	2384.9	2410.9	2392.0	2394.4	2420.3	2446.3	2509.9	2384.9
37.5°	2335.4	2344.8	2382.6	2455.7	2528.8	2578.4	2625.5	2696.3	2736.4	2833.1	2660.9
40°	2351.9	2363.7	2443.9	2547.7	2665.6	2778.9	2863.8	2951.1	2977.0	3045.4	2828.4
42.5°	2300.0	2311.8	2413.2	2623.2	2788.3	2965.2	3057.2	3168.1	3212.9	3187.0	2967.6
45°	2264.6	2271.7	2377.8	2616.1	2894.5	3146.9	3236.5	3352.1	3380.4	3319.1	3083.2
47.5°	2219.8	2226.9	2337.7	2606.7	2981.7	3302.6	3363.9	3491.3	3519.6	3425.2	3182.3
50°	2153.7	2158.5	2285.8	2587.8	3038.4	3413.4	3481.8	3609.2	3621.0	3524.3	3276.6
52.5°	2073.5	2087.7	2210.4	2543.0	3078.5	3481.8	3564.4	3701.2	3717.7	3651.7	3380.4
55°	1965.0	1981.5	2123.1	2476.9	3064.3	3505.4	3602.1	3823.9	3852.2	3797.9	3467.7
57.5°	1854.2	1877.7	2016.9	2384.9	3007.7	3540.8	3727.2	4005.5	4043.3	3941.8	3538.5
60°	1740.9	1750.4	1894.3	2259.9	2913.3	3576.2	3868.7	4243.8	4279.2	4083.4	3595.1
62.5°	1611.2	1623.0	1750.4	2087.7	2750.6	3543.2	3974.9	4444.3	4465.5	4201.3	3618.7
65°	1460.2	1460.2	1568.7	1877.7	2531.2	3425.2	3989.0	4548.1	4562.3	4276.8	3590.4
67.5°	1250.3	1259.7	1347.0	1618.3	2236.3	3194.0	3908.8	4571.7	4607.1	4324.0	3512.5
70°	969.5	990.8	1063.9	1297.4	1825.8	2873.2	3788.5	4609.4	4637.7	4255.6	3337.9
72.5°	662.9	684.1	750.2	889.3	1316.3	2304.7	3427.6	4253.2	4260.3	3923.0	2998.3
75°	174.6	193.4	245.3	356.2	552.0	1549.8	2741.1	3602.1	3644.6	3392.2	2474.6
77.5°	51.9	51.9	63.7	82.6	113.2	316.1	1394.2	2295.3	2337.7	2236.3	1542.8
80°	40.1	40.1	47.2	56.6	73.1	162.8	483.6	846.9	898.8	960.1	636.9
82.5°	25.9	28.3	30.7	33.0	33.0	66.1	129.7	217.0	214.7	233.5	205.2
85°	16.5	16.5	14.2	14.2	11.8	16.5	11.8	14.2	16.5	16.5	18.9
87.5°	2.4	0.0	0.0	0.0	0.0	2.4	2.4	4.7	4.7	4.7	7.1
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: P507674  
 CATALOG NUMBER: VERD-S-CA1-70-727-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	1129.9	1132.3	1134.7	1137.0	1141.7	1141.7	1144.1	1144.1	1144.1	1144.1	1144.1
5°	1144.1	1146.5	1153.5	1160.6	1177.1	1186.6	1196.0	1203.1	1203.1	1207.8	1207.8
7.5°	1165.3	1172.4	1193.6	1203.1	1217.2	1231.4	1238.5	1240.8	1245.5	1245.5	1245.5
10°	1200.7	1207.8	1224.3	1231.4	1238.5	1238.5	1236.1	1233.7	1226.7	1224.3	1226.7
12.5°	1233.7	1243.2	1243.2	1240.8	1233.7	1224.3	1212.5	1200.7	1188.9	1179.5	1179.5
15°	1273.8	1269.1	1255.0	1236.1	1217.2	1193.6	1170.0	1148.8	1129.9	1122.9	1122.9
17.5°	1309.2	1297.4	1266.8	1231.4	1191.3	1153.5	1115.8	1080.4	1047.4	1035.6	1028.5
20°	1351.7	1330.5	1276.2	1221.9	1165.3	1106.4	1042.7	979.0	922.4	898.8	896.4
22.5°	1401.2	1365.8	1290.4	1207.8	1132.3	1042.7	936.5	846.9	790.3	761.9	757.2
25°	1460.2	1408.3	1304.5	1196.0	1092.2	960.1	818.6	717.1	646.4	615.7	603.9
27.5°	1533.3	1464.9	1323.4	1181.8	1030.9	858.7	698.3	580.3	502.5	464.7	460.0
30°	1627.7	1533.3	1342.3	1160.6	955.4	740.7	568.5	436.4	358.6	320.8	311.4
32.5°	1844.7	1672.5	1365.8	1125.2	861.0	627.5	429.3	292.5	214.7	179.3	176.9
35°	2212.7	1986.3	1420.1	1078.1	766.7	493.0	276.0	155.7	115.6	101.4	101.4
37.5°	2488.7	2248.1	1566.4	1016.7	644.0	330.3	141.5	92.0	73.1	70.8	70.8
40°	2653.8	2403.8	1726.8	948.3	497.7	176.9	87.3	70.8	66.1	63.7	63.7
42.5°	2790.7	2533.5	1802.3	863.4	316.1	99.1	73.1	66.1	61.3	59.0	59.0
45°	2903.9	2632.6	1811.7	754.9	176.9	82.6	68.4	59.0	56.6	54.3	54.3
47.5°	2993.5	2717.5	1788.1	601.5	110.9	77.8	63.7	54.3	49.5	49.5	49.5
50°	3078.5	2790.7	1722.0	474.2	103.8	73.1	59.0	49.5	47.2	47.2	47.2
52.5°	3156.3	2842.6	1611.2	382.2	96.7	68.4	56.6	47.2	42.5	44.8	44.8
55°	3220.0	2863.8	1497.9	294.9	92.0	66.1	54.3	44.8	40.1	40.1	40.1
57.5°	3255.4	2819.0	1403.6	224.1	89.6	63.7	51.9	42.5	35.4	33.0	33.0
60°	3257.7	2760.0	1316.3	188.7	84.9	59.0	49.5	37.7	30.7	28.3	28.3
62.5°	3215.3	2689.2	1184.2	162.8	80.2	56.6	44.8	35.4	28.3	25.9	25.9
65°	3132.7	2564.2	1037.9	139.2	77.8	56.6	40.1	33.0	28.3	23.6	23.6
67.5°	3000.6	2356.6	842.2	122.7	73.1	51.9	40.1	30.7	25.9	23.6	23.6
70°	2750.6	2059.4	582.7	106.2	68.4	47.2	37.7	30.7	25.9	21.2	21.2
72.5°	2370.8	1672.5	287.8	87.3	59.0	47.2	37.7	28.3	23.6	21.2	21.2
75°	1832.9	1198.4	174.6	70.8	47.2	42.5	35.4	28.3	23.6	18.9	18.9
77.5°	1078.1	533.1	125.0	54.3	35.4	33.0	30.7	25.9	21.2	18.9	18.9
80°	393.9	226.5	92.0	42.5	28.3	28.3	23.6	21.2	18.9	16.5	16.5
82.5°	153.3	120.3	61.3	30.7	23.6	21.2	18.9	16.5	14.2	14.2	14.2
85°	21.2	21.2	21.2	16.5	14.2	14.2	11.8	11.8	9.4	9.4	9.4
87.5°	7.1	7.1	7.1	9.4	7.1	7.1	4.7	4.7	4.7	7.1	7.1
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)