

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: P507697

Luminaire Tested: **VERD-S-CA1-70-750-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507697  
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-CA1-70-750-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1330mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10067 lumens  
Efficiency: N/A  
Efficacy: 137.0 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

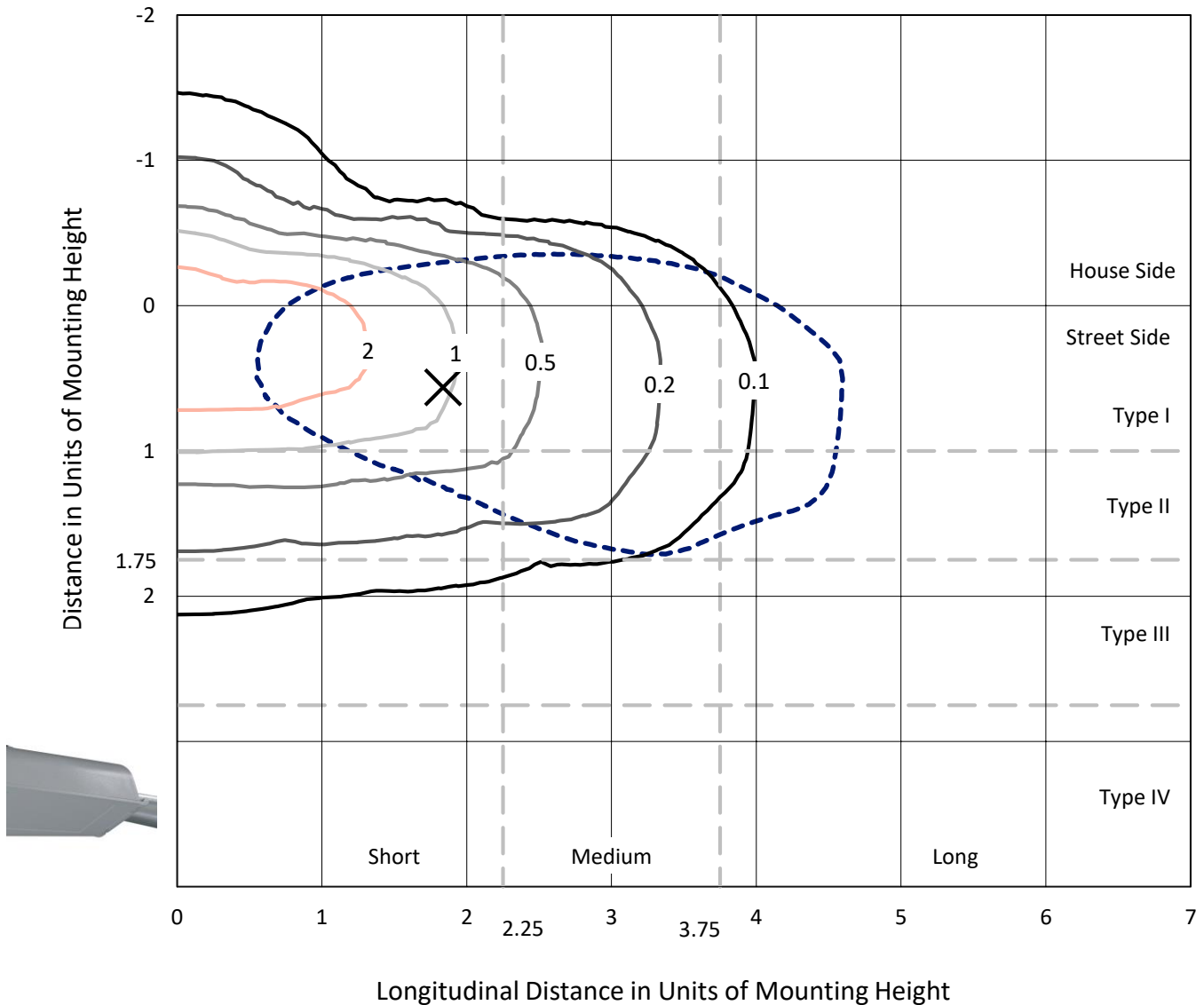
Input Watts (W): 73.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

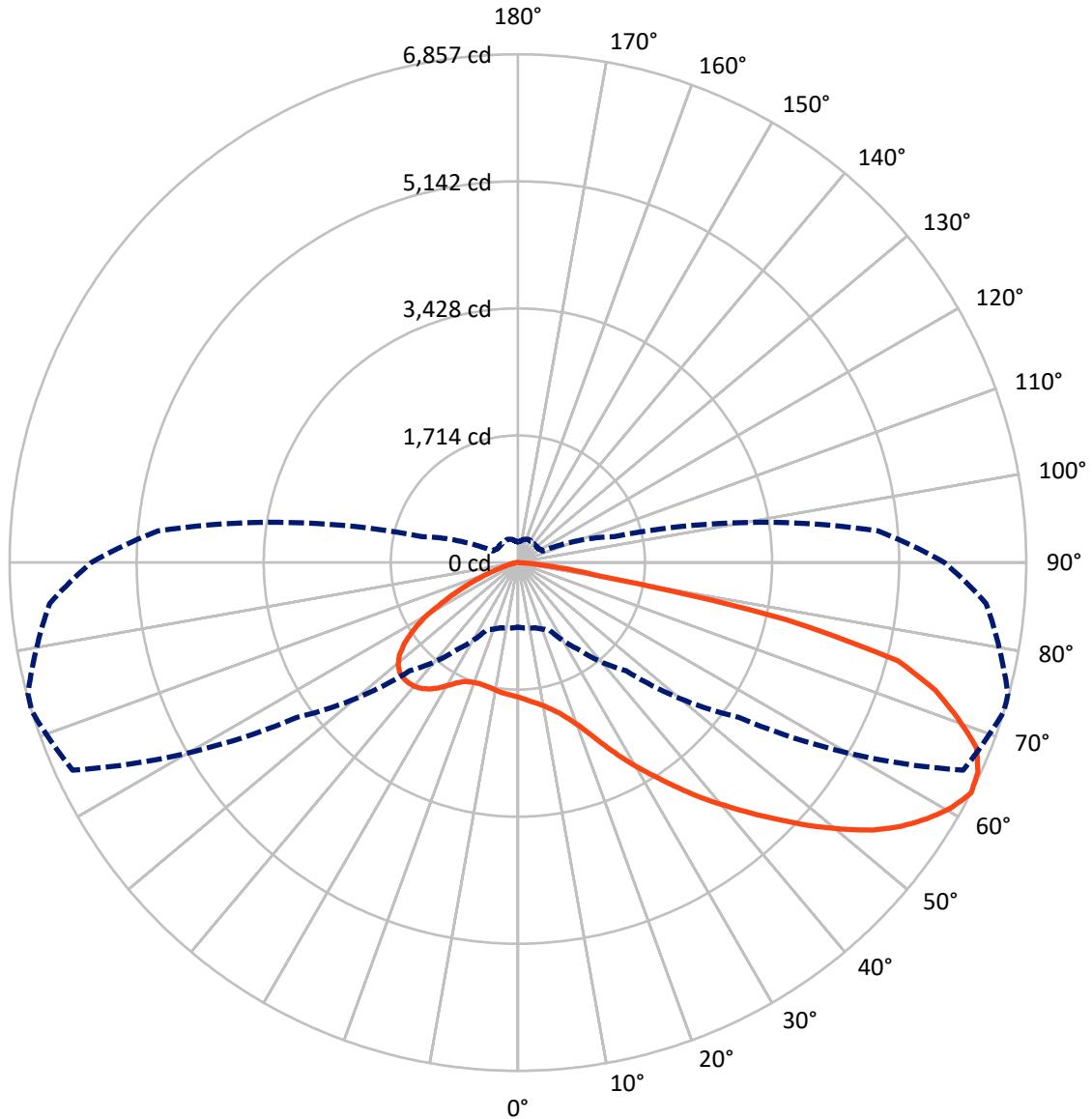
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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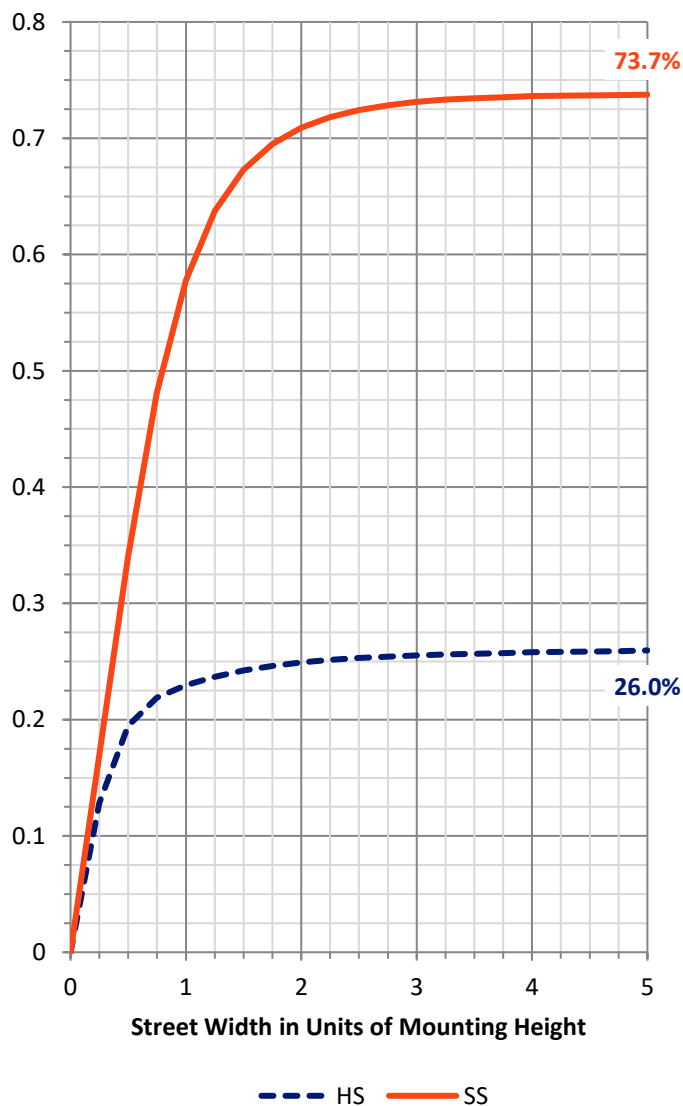
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2651.8	0.0	2651.8
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	7415.2	0.0	7415.2
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	10067.0	0.0	10067.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	1.7
10°-20°	537.2	5.3
20°-30°	929.8	9.2
30°-40°	1346.6	13.4
40°-50°	1724.8	17.1
50°-60°	1996.9	19.8
60°-70°	2010.9	20.0
70°-80°	1229.4	12.2
80°-90°	115.8	1.2
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°	10067.0	100.0
0°-180°	10067.0	100.0

**Coefficient of Utilization**



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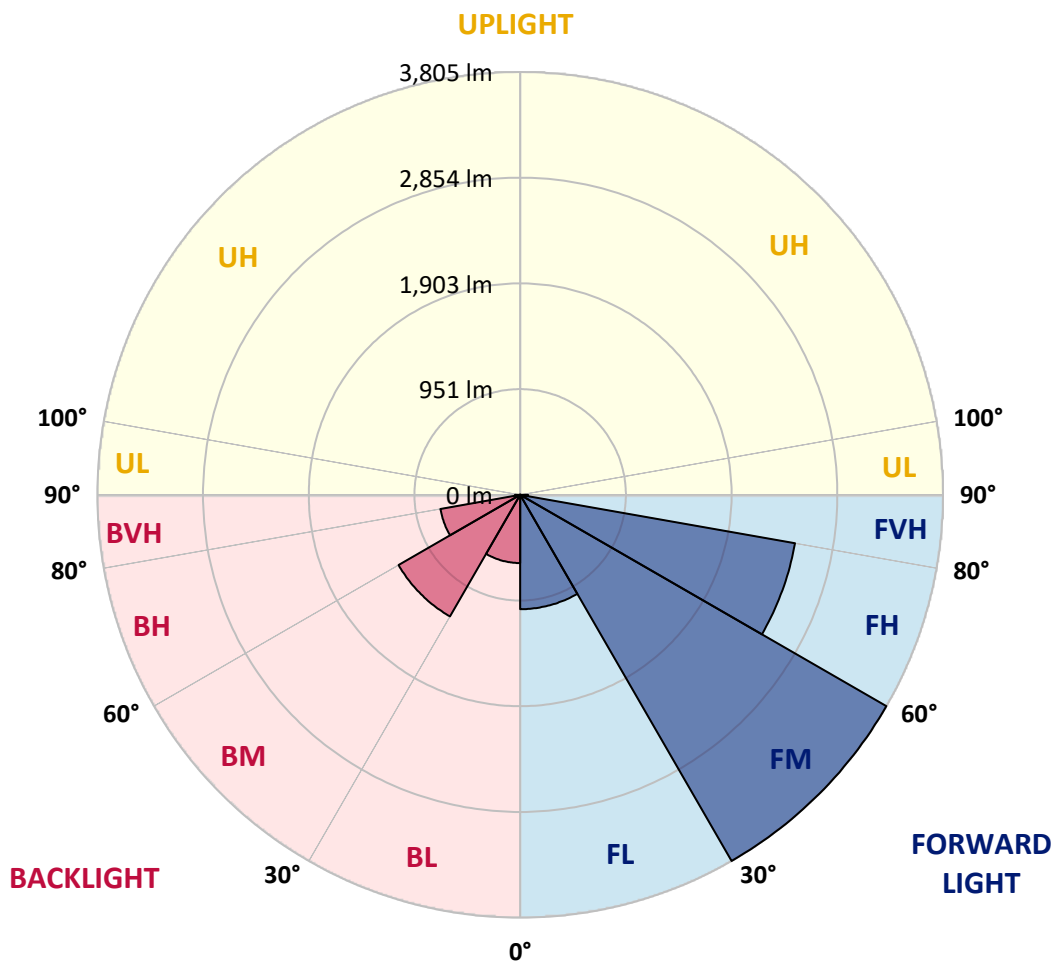
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.9	10.2			
FM (30°-60°)	3805.0	37.8			
FH (60°-80°)	2511.4	24.9			G2/5000
FVH (80°-90°)	69.9	0.7			G1/100
BL (0°-30°)	613.8	6.1	B2/1000		
BM (30°-60°)	1263.2	12.5	B2/2500		
BH (60°-80°)	728.9	7.2	B2/1000		G2/1000
BVH (80°-90°)	45.8	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°	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4
2.5°	1912.0	1909.2	1903.5	1900.7	1895.0	1880.8	1872.3	1858.1	1846.8	1843.9	1826.9
5°	2005.6	2008.5	2005.6	1997.1	1985.8	1965.9	1937.5	1900.7	1883.6	1878.0	1849.6
7.5°	2093.6	2093.6	2090.7	2079.4	2068.0	2042.5	2002.8	1960.2	1920.5	1909.2	1872.3
10°	2178.7	2178.7	2170.2	2158.8	2141.8	2110.6	2070.9	2017.0	1968.7	1951.7	1889.3
12.5°	2269.4	2266.6	2255.3	2238.2	2215.5	2190.0	2147.5	2087.9	2034.0	2014.1	1926.2
15°	2340.4	2340.4	2331.9	2320.5	2300.6	2269.4	2229.7	2178.7	2107.7	2090.7	1977.3
17.5°	2402.8	2405.6	2399.9	2399.9	2382.9	2360.2	2326.2	2283.6	2215.5	2190.0	2053.8
20°	2453.8	2451.0	2462.3	2470.9	2476.5	2462.3	2442.5	2414.1	2346.0	2320.5	2153.1
22.5°	2476.5	2482.2	2516.2	2558.8	2584.3	2587.2	2584.3	2581.5	2521.9	2487.9	2289.3
25°	2487.9	2496.4	2547.4	2621.2	2677.9	2720.5	2765.9	2794.2	2740.4	2714.8	2493.5
27.5°	2499.2	2507.7	2567.3	2658.1	2765.9	2868.0	2958.8	3012.7	2973.0	2941.8	2703.5
30°	2479.4	2487.9	2556.0	2683.6	2836.8	3015.5	3143.2	3219.8	3214.1	3194.2	2944.6
32.5°	2436.8	2445.3	2521.9	2680.8	2910.6	3165.9	3307.7	3435.4	3460.9	3441.0	3185.7
35°	2360.2	2371.6	2459.5	2646.7	2944.6	3290.7	3480.8	3668.0	3733.2	3736.1	3449.6
37.5°	2255.3	2260.9	2368.7	2581.5	2955.9	3378.6	3625.4	3892.1	4025.4	4028.3	3719.0
40°	2113.4	2127.6	2260.9	2499.2	2930.4	3441.0	3770.1	4136.1	4311.9	4292.1	4011.2
42.5°	1951.7	1963.1	2093.6	2368.7	2870.8	3477.9	3903.4	4391.4	4624.0	4612.6	4286.4
45°	1807.0	1824.1	1923.4	2187.2	2757.4	3486.4	4019.7	4646.7	4947.4	4933.2	4567.3
47.5°	1614.1	1656.7	1790.0	2025.5	2587.2	3449.6	4124.7	4992.8	5304.8	5285.0	4862.3
50°	1242.5	1256.7	1537.5	1889.3	2394.3	3358.8	4215.5	5313.3	5650.9	5636.7	5171.5
52.5°	1120.5	1131.9	1222.7	1733.3	2201.4	3197.1	4269.4	5724.7	5997.0	5957.3	5449.5
55°	1052.5	1063.8	1114.9	1384.4	2034.0	2953.1	4280.7	6073.6	6277.8	6241.0	5710.5
57.5°	990.0	998.6	1046.8	1185.8	1841.1	2615.5	4221.2	6354.4	6516.1	6479.3	5945.9
60°	924.8	933.3	984.4	1078.0	1602.8	2306.3	4025.4	6572.9	6717.5	6680.7	6158.7
62.5°	870.9	885.1	910.6	998.6	1432.6	2065.2	3642.5	6626.8	6856.5	6842.4	6340.3
65°	805.7	811.3	851.0	922.0	1265.2	1897.8	3231.1	6470.7	6819.7	6845.2	6448.0
67.5°	731.9	734.7	771.6	822.7	1058.1	1733.3	2865.2	6260.8	6672.2	6714.7	6368.6
70°	632.6	635.4	669.5	723.4	876.6	1503.5	2487.9	5951.6	6294.9	6334.6	6062.2
72.5°	527.6	527.6	556.0	615.6	723.4	1245.4	1991.4	5273.6	5889.2	5954.4	5563.0
75°	229.8	238.3	286.5	343.3	468.1	916.3	1358.8	4082.2	5293.5	5338.9	4876.5
77.5°	62.4	62.4	73.8	96.5	136.2	408.5	431.2	1795.7	3687.8	3804.2	3605.6
80°	51.1	51.1	56.7	73.8	93.6	201.4	144.7	578.7	1140.4	1503.5	1869.5
82.5°	28.4	28.4	34.0	42.6	51.1	51.1	51.1	295.0	561.7	598.6	783.0
85°	14.2	17.0	17.0	19.9	19.9	17.0	17.0	59.6	107.8	122.0	187.2
87.5°	5.7	5.7	5.7	5.7	2.8	2.8	5.7	8.5	8.5	11.3	14.2
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°	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4
2.5°	1821.2	1812.7	1801.4	1792.9	1775.8	1758.8	1747.5	1739.0	1736.1	1733.3	1733.3
5°	1832.6	1818.4	1787.2	1756.0	1730.4	1707.8	1687.9	1673.7	1668.0	1665.2	1665.2
7.5°	1849.6	1829.7	1778.7	1733.3	1687.9	1653.9	1622.7	1602.8	1591.4	1594.3	1602.8
10°	1858.1	1826.9	1758.8	1713.4	1653.9	1600.0	1563.1	1540.4	1531.9	1531.9	1529.0
12.5°	1880.8	1835.4	1744.6	1673.7	1622.7	1548.9	1506.3	1486.5	1475.1	1458.1	1452.4
15°	1914.8	1858.1	1739.0	1645.3	1565.9	1500.7	1443.9	1415.6	1407.1	1384.4	1384.4
17.5°	1977.3	1897.8	1739.0	1614.1	1512.0	1449.6	1375.8	1336.1	1330.5	1316.3	1313.4
20°	2051.0	1951.7	1753.1	1582.9	1455.3	1373.0	1290.7	1251.0	1236.8	1222.7	1222.7
22.5°	2167.3	2034.0	1778.7	1560.2	1395.7	1293.6	1202.8	1146.1	1123.4	1120.5	1114.9
25°	2346.0	2164.5	1818.4	1537.5	1336.1	1205.6	1114.9	1041.1	1004.2	998.6	995.7
27.5°	2541.8	2343.2	1897.8	1517.7	1270.9	1106.4	998.6	919.1	873.7	868.1	865.2
30°	2751.7	2527.6	2002.8	1500.7	1188.6	992.9	870.9	794.3	751.8	740.4	743.2
32.5°	2981.5	2726.2	2116.3	1486.5	1100.7	845.4	731.9	680.8	635.4	615.6	618.4
35°	3205.6	2902.0	2215.5	1475.1	984.4	712.0	624.1	570.2	524.8	499.3	499.3
37.5°	3458.1	3109.1	2297.8	1452.4	859.6	621.3	536.2	482.3	448.2	425.5	425.5
40°	3704.9	3316.2	2363.1	1409.9	720.5	547.5	442.5	411.3	388.6	374.5	368.8
42.5°	3946.0	3523.3	2405.6	1339.0	604.2	459.6	368.8	365.9	368.8	354.6	351.8
45°	4195.6	3727.6	2436.8	1225.5	522.0	380.1	329.1	348.9	368.8	363.1	363.1
47.5°	4468.0	3926.1	2462.3	1041.1	442.5	334.7	326.2	346.1	371.6	374.5	374.5
50°	4728.9	4127.5	2453.8	805.7	388.6	331.9	329.1	334.7	368.8	377.3	371.6
52.5°	4972.9	4300.6	2385.7	587.2	363.1	337.6	337.6	331.9	360.3	365.9	368.8
55°	5219.7	4462.3	2232.6	465.2	348.9	337.6	351.8	337.6	346.1	348.9	354.6
57.5°	5443.8	4626.8	2005.6	417.0	346.1	337.6	351.8	343.3	343.3	331.9	329.1
60°	5616.9	4763.0	1730.4	397.2	337.6	340.4	346.1	346.1	337.6	312.0	303.5
62.5°	5753.0	4876.5	1353.2	371.6	331.9	334.7	331.9	343.3	323.4	286.5	278.0
65°	5829.6	4896.3	1035.4	343.3	317.7	329.1	320.6	317.7	300.7	261.0	244.0
67.5°	5744.5	4757.3	723.4	314.9	300.7	320.6	306.4	295.0	275.2	238.3	215.6
70°	5415.5	4354.5	476.6	278.0	278.0	300.7	289.4	272.3	246.8	218.4	192.9
72.5°	4797.0	3753.1	286.5	229.8	246.8	275.2	269.5	246.8	173.0	133.3	116.3
75°	4056.6	3083.6	184.4	173.0	201.4	246.8	249.6	221.3	147.5	119.1	119.1
77.5°	2947.4	2025.5	107.8	96.5	133.3	198.6	212.8	161.7	158.9	221.3	161.7
80°	1512.0	981.5	82.3	59.6	70.9	147.5	119.1	122.0	241.1	178.7	113.5
82.5°	655.3	388.6	51.1	42.6	45.4	73.8	76.6	201.4	187.2	105.0	70.9
85°	139.0	73.8	28.4	28.4	28.4	34.0	42.6	218.4	116.3	53.9	22.7
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	11.3	11.3	11.3	8.5	8.5
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)