

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: P507578

Luminaire Tested: **VERD-S-CA1-50-727-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507578
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-CA1-50-727-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 940mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5844 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

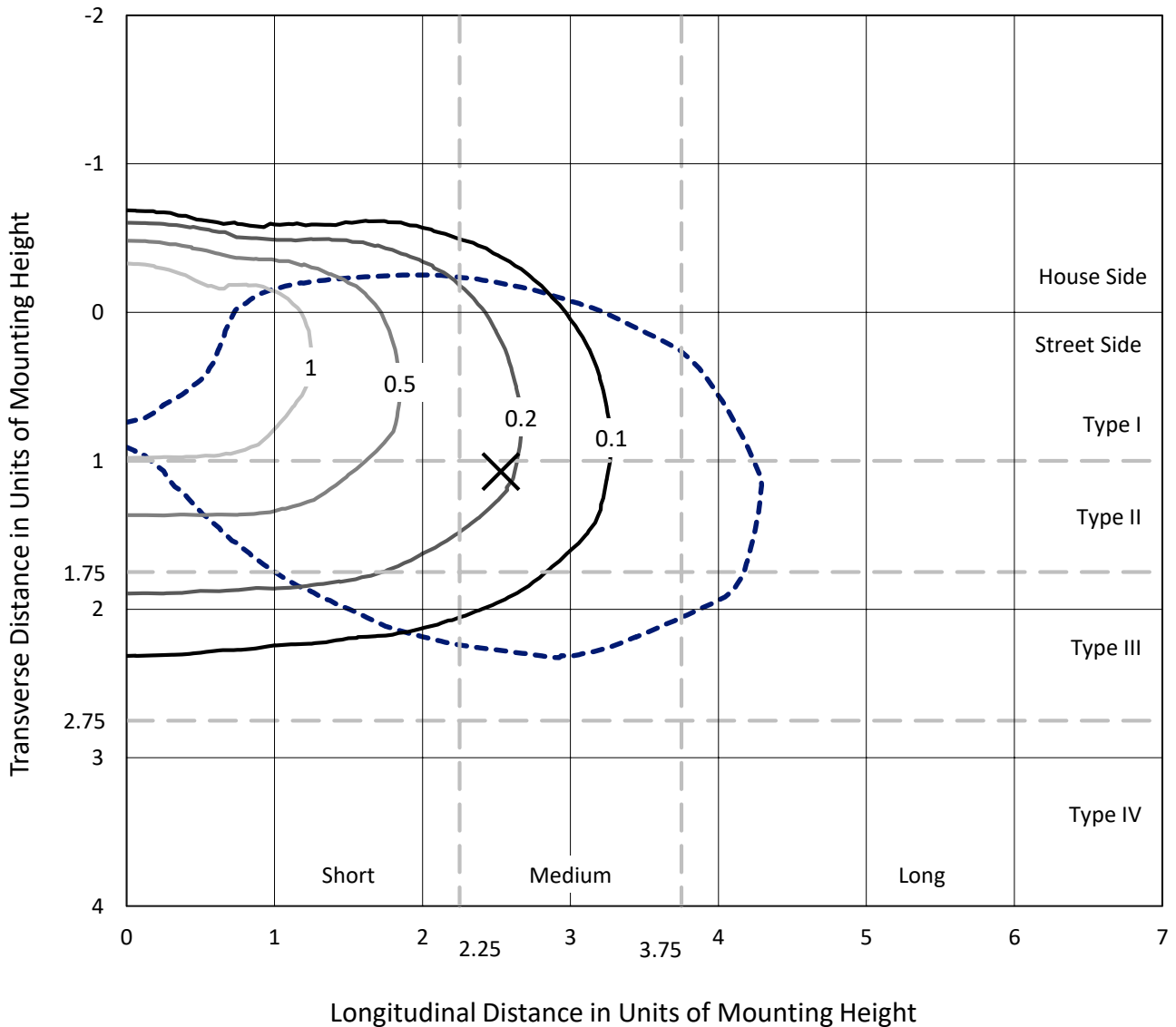
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

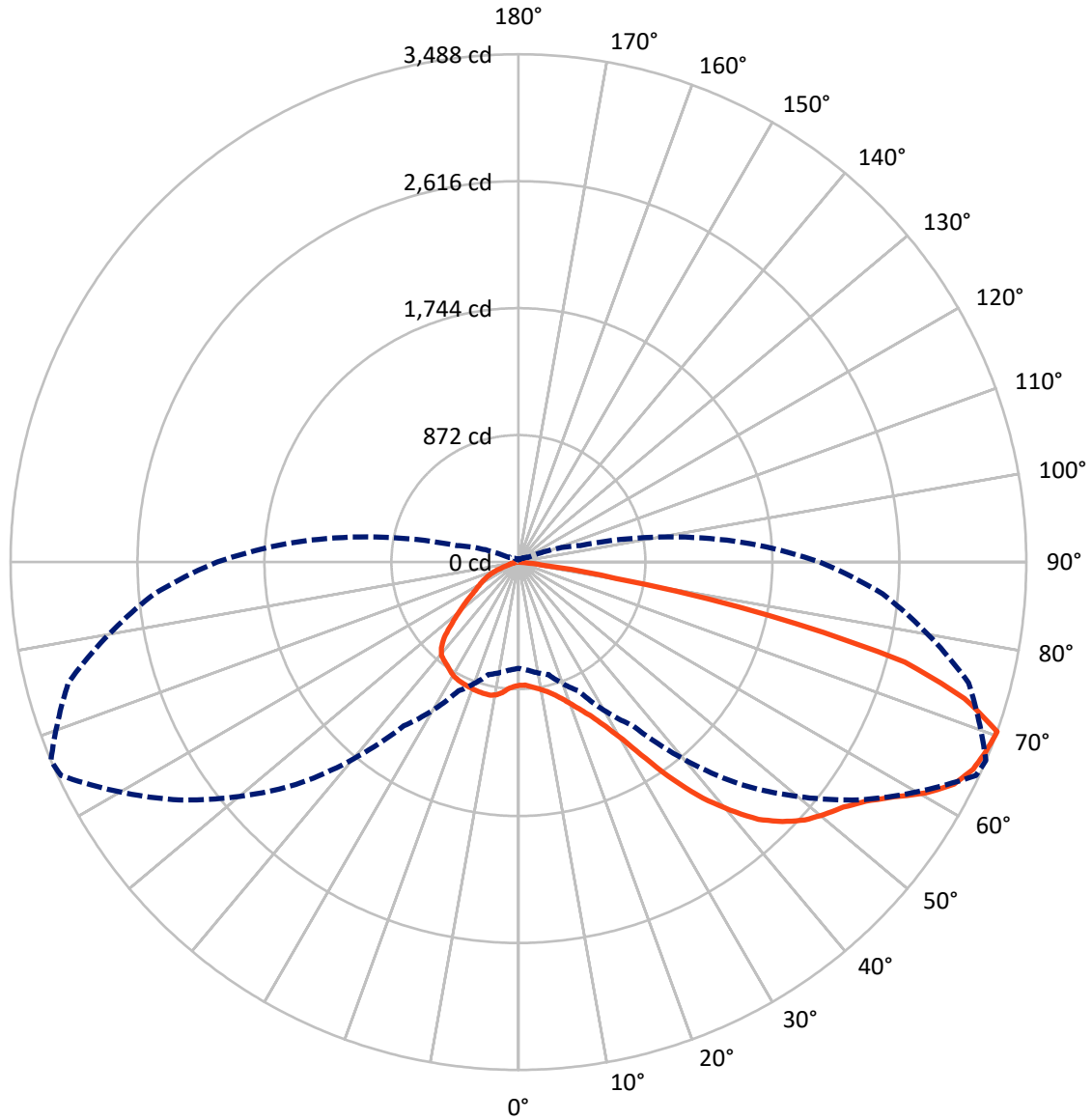
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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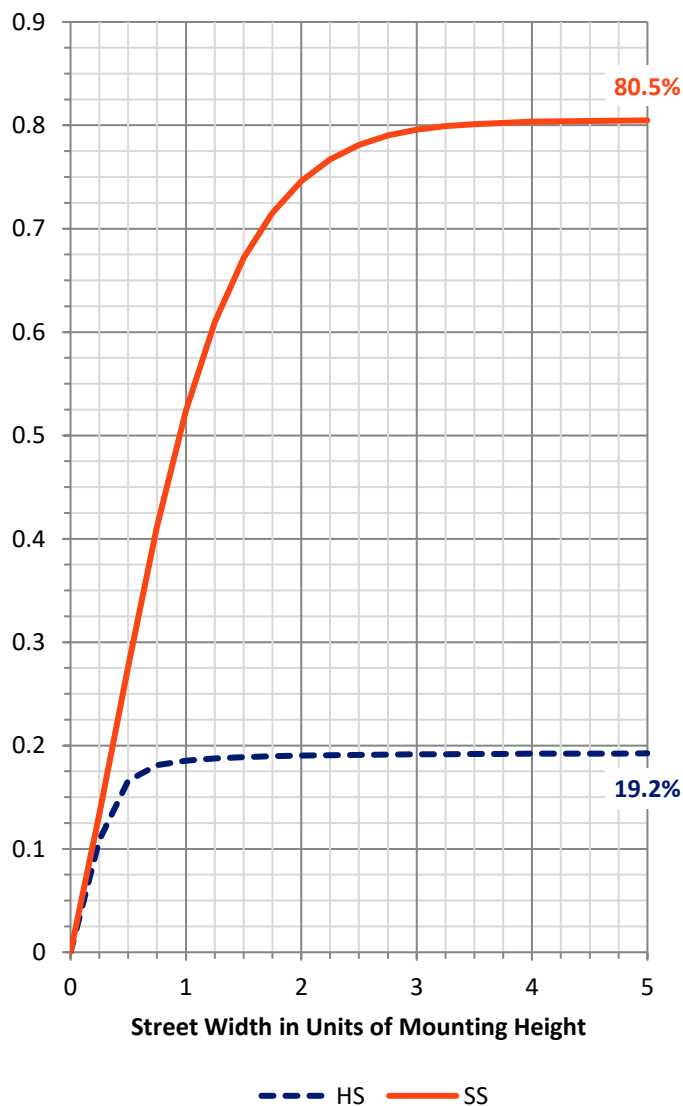
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.9	0.0	1138.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4705.1	0.0	4705.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	5844.0	0.0	5844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.5
10°-20°	269.8	4.6
20°-30°	468.8	8.0
30°-40°	734.1	12.6
40°-50°	1033.0	17.7
50°-60°	1232.0	21.1
60°-70°	1276.6	21.8
70°-80°	704.5	12.1
80°-90°	40.1	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°	5844.0	100.0
0°-180°	5844.0	100.0

Coefficient of Utilization



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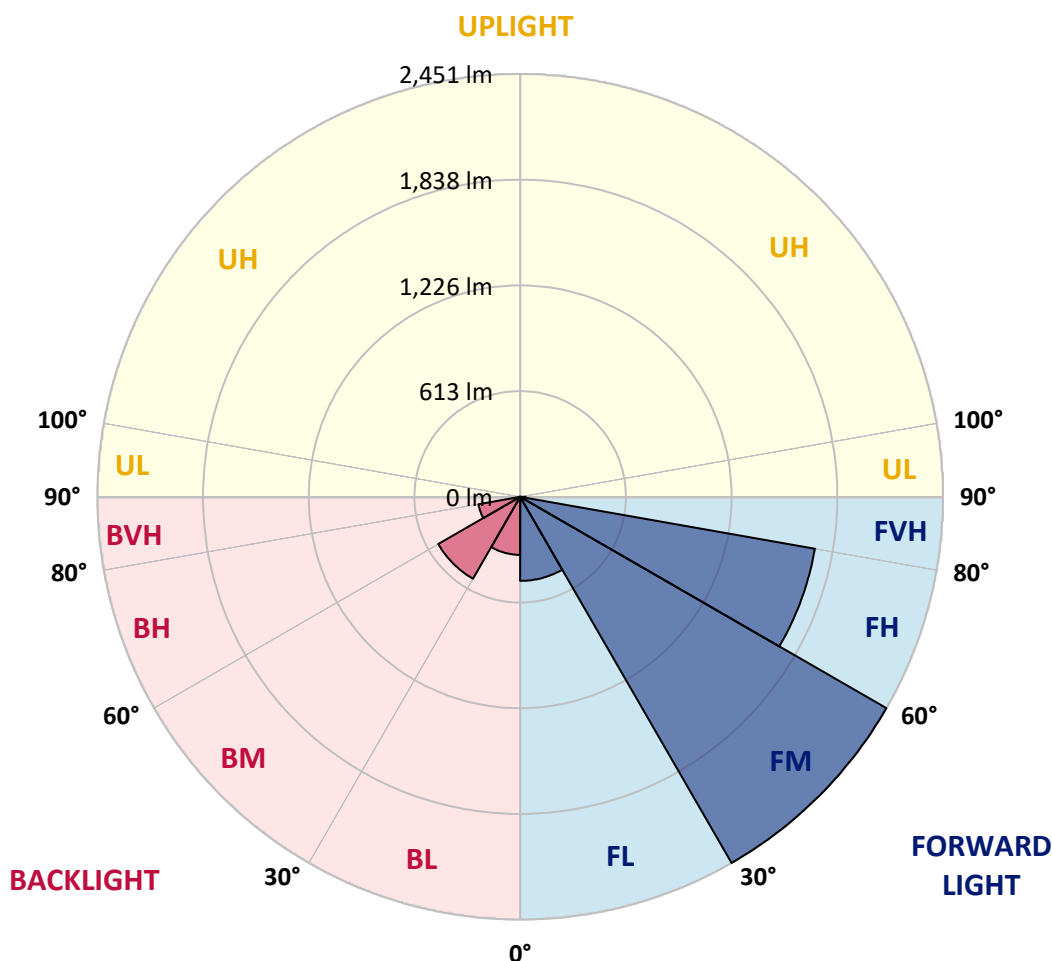
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.5	8.3			
FM (30°-60°)	2451.3	41.9			
FH (60°-80°)	1735.2	29.7			G1/1800
FVH (80°-90°)	31.2	0.5			G1/100
BL (0°-30°)	336.3	5.8	B1/500		
BM (30°-60°)	547.8	9.4	B1/1000		
BH (60°-80°)	245.8	4.2	B1/500		G1/500
BVH (80°-90°)	8.9	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
2.5°	851.6	851.6	851.6	849.9	849.9	849.9	848.1	846.3	846.3	846.3	848.1
5°	874.7	874.7	872.9	871.2	869.4	864.1	860.5	858.7	858.7	857.0	860.5
7.5°	903.1	903.1	903.1	899.5	894.2	887.1	880.0	874.7	872.9	871.2	872.9
10°	945.7	945.7	942.1	936.8	927.9	917.3	904.9	894.2	892.4	888.9	892.4
12.5°	1000.7	995.3	991.8	982.9	972.3	954.5	935.0	919.1	915.5	912.0	924.4
15°	1057.4	1055.7	1046.8	1041.5	1023.7	1000.7	974.1	952.8	949.2	942.1	952.8
17.5°	1124.9	1126.6	1123.1	1114.2	1089.4	1055.7	1023.7	993.6	990.0	984.7	990.0
20°	1217.1	1213.6	1206.5	1194.1	1165.7	1121.3	1080.5	1046.8	1041.5	1037.9	1032.6
22.5°	1309.4	1311.2	1297.0	1284.5	1249.1	1206.5	1151.5	1110.7	1103.6	1101.8	1077.0
25°	1398.1	1401.6	1396.3	1380.4	1350.2	1295.2	1234.9	1185.2	1176.3	1174.5	1132.0
27.5°	1490.4	1492.1	1497.5	1490.4	1458.4	1401.6	1334.2	1277.5	1277.5	1263.3	1199.4
30°	1579.1	1582.6	1586.2	1586.2	1570.2	1520.5	1462.0	1412.3	1412.3	1401.6	1291.6
32.5°	1648.3	1650.0	1671.3	1689.1	1689.1	1653.6	1614.6	1609.2	1607.5	1627.0	1502.8
35°	1710.4	1715.7	1745.9	1793.8	1813.3	1799.1	1800.9	1820.4	1839.9	1887.8	1793.8
37.5°	1756.5	1763.6	1792.0	1847.0	1902.0	1939.2	1974.7	2028.0	2058.1	2130.9	2001.3
40°	1768.9	1777.8	1838.1	1916.2	2004.9	2090.1	2153.9	2219.6	2239.1	2290.5	2127.3
42.5°	1729.9	1738.8	1815.0	1973.0	2097.1	2230.2	2299.4	2382.8	2416.5	2397.0	2232.0
45°	1703.3	1708.6	1788.4	1967.6	2177.0	2366.8	2434.3	2521.2	2542.5	2496.4	2318.9
47.5°	1669.6	1674.9	1758.3	1960.5	2242.6	2483.9	2530.1	2625.9	2647.2	2576.2	2393.4
50°	1619.9	1623.4	1719.2	1946.3	2285.2	2567.3	2618.8	2714.6	2723.5	2650.7	2464.4
52.5°	1559.6	1570.2	1662.5	1912.6	2315.4	2618.8	2680.9	2783.8	2796.2	2746.5	2542.5
55°	1477.9	1490.4	1596.8	1863.0	2304.7	2636.5	2709.3	2876.0	2897.3	2856.5	2608.1
57.5°	1394.6	1412.3	1517.0	1793.8	2262.2	2663.1	2803.3	3012.7	3041.0	2964.8	2661.4
60°	1309.4	1316.5	1424.7	1699.7	2191.2	2689.7	2909.8	3191.9	3218.5	3071.2	2703.9
62.5°	1211.8	1220.7	1316.5	1570.2	2068.8	2664.9	2989.6	3342.7	3358.6	3159.9	2721.7
65°	1098.3	1098.3	1179.9	1412.3	1903.8	2576.2	3000.2	3420.7	3431.4	3216.7	2700.4
67.5°	940.3	947.4	1013.1	1217.1	1682.0	2402.3	2939.9	3438.5	3465.1	3252.2	2641.8
70°	729.2	745.2	800.2	975.8	1373.3	2161.0	2849.4	3466.9	3488.2	3200.7	2510.5
72.5°	498.6	514.5	564.2	668.9	990.0	1733.4	2578.0	3199.0	3204.3	2950.6	2255.1
75°	131.3	145.5	184.5	267.9	415.2	1165.7	2061.7	2709.3	2741.2	2551.4	1861.2
77.5°	39.0	39.0	47.9	62.1	85.2	237.7	1048.6	1726.3	1758.3	1682.0	1160.4
80°	30.2	30.2	35.5	42.6	55.0	122.4	363.7	637.0	676.0	722.1	479.0
82.5°	19.5	21.3	23.1	24.8	24.8	49.7	97.6	163.2	161.5	175.6	154.4
85°	12.4	12.4	10.6	10.6	8.9	12.4	8.9	10.6	12.4	12.4	14.2
87.5°	1.8	0.0	0.0	0.0	0.0	1.8	1.8	3.5	3.5	3.5	5.3
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°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
2.5°	849.9	851.6	853.4	855.2	858.7	858.7	860.5	860.5	860.5	860.5	860.5
5°	860.5	862.3	867.6	872.9	885.3	892.4	899.5	904.9	904.9	908.4	908.4
7.5°	876.5	881.8	897.8	904.9	915.5	926.2	931.5	933.2	936.8	936.8	936.8
10°	903.1	908.4	920.8	926.2	931.5	931.5	929.7	927.9	922.6	920.8	922.6
12.5°	927.9	935.0	935.0	933.2	927.9	920.8	912.0	903.1	894.2	887.1	887.1
15°	958.1	954.5	943.9	929.7	915.5	897.8	880.0	864.1	849.9	844.5	844.5
17.5°	984.7	975.8	952.8	926.2	896.0	867.6	839.2	812.6	787.8	778.9	773.6
20°	1016.6	1000.7	959.9	919.1	876.5	832.1	784.2	736.3	693.7	676.0	674.2
22.5°	1053.9	1027.3	970.5	908.4	851.6	784.2	704.4	637.0	594.4	573.1	569.5
25°	1098.3	1059.2	981.2	899.5	821.5	722.1	615.7	539.4	486.1	463.1	454.2
27.5°	1153.3	1101.8	995.3	888.9	775.3	645.8	525.2	436.5	377.9	349.5	346.0
30°	1224.2	1153.3	1009.5	872.9	718.6	557.1	427.6	328.2	269.7	241.3	234.2
32.5°	1387.5	1257.9	1027.3	846.3	647.6	471.9	322.9	220.0	161.5	134.8	133.1
35°	1664.2	1493.9	1068.1	810.8	576.6	370.8	207.6	117.1	86.9	76.3	76.3
37.5°	1871.8	1690.8	1178.1	764.7	484.4	248.4	106.5	69.2	55.0	53.2	53.2
40°	1996.0	1807.9	1298.7	713.2	374.4	133.1	65.6	53.2	49.7	47.9	47.9
42.5°	2098.9	1905.5	1355.5	649.4	237.7	74.5	55.0	49.7	46.1	44.4	44.4
45°	2184.1	1980.0	1362.6	567.8	133.1	62.1	51.5	44.4	42.6	40.8	40.8
47.5°	2251.5	2043.9	1344.9	452.4	83.4	58.5	47.9	40.8	37.3	37.3	37.3
50°	2315.4	2098.9	1295.2	356.6	78.1	55.0	44.4	37.3	35.5	35.5	35.5
52.5°	2373.9	2138.0	1211.8	287.4	72.7	51.5	42.6	35.5	31.9	33.7	33.7
55°	2421.8	2153.9	1126.6	221.8	69.2	49.7	40.8	33.7	30.2	30.2	30.2
57.5°	2448.4	2120.2	1055.7	168.6	67.4	47.9	39.0	31.9	26.6	24.8	24.8
60°	2450.2	2075.9	990.0	141.9	63.9	44.4	37.3	28.4	23.1	21.3	21.3
62.5°	2418.3	2022.6	890.7	122.4	60.3	42.6	33.7	26.6	21.3	19.5	19.5
65°	2356.2	1928.6	780.7	104.7	58.5	42.6	30.2	24.8	21.3	17.7	17.7
67.5°	2256.8	1772.5	633.4	92.3	55.0	39.0	30.2	23.1	19.5	17.7	17.7
70°	2068.8	1548.9	438.2	79.8	51.5	35.5	28.4	23.1	19.5	16.0	16.0
72.5°	1783.1	1257.9	216.5	65.6	44.4	35.5	28.4	21.3	17.7	16.0	16.0
75°	1378.6	901.3	131.3	53.2	35.5	31.9	26.6	21.3	17.7	14.2	14.2
77.5°	810.8	401.0	94.0	40.8	26.6	24.8	23.1	19.5	16.0	14.2	14.2
80°	296.3	170.3	69.2	31.9	21.3	21.3	17.7	16.0	14.2	12.4	12.4
82.5°	115.3	90.5	46.1	23.1	17.7	16.0	14.2	12.4	10.6	10.6	10.6
85°	16.0	16.0	16.0	12.4	10.6	10.6	8.9	8.9	7.1	7.1	7.1
87.5°	5.3	5.3	5.3	7.1	5.3	5.3	3.5	3.5	3.5	5.3	5.3
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)