

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: P507661

Luminaire Tested: **VERD-S-CA1-60-760-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-760-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1150mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8603 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.3
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

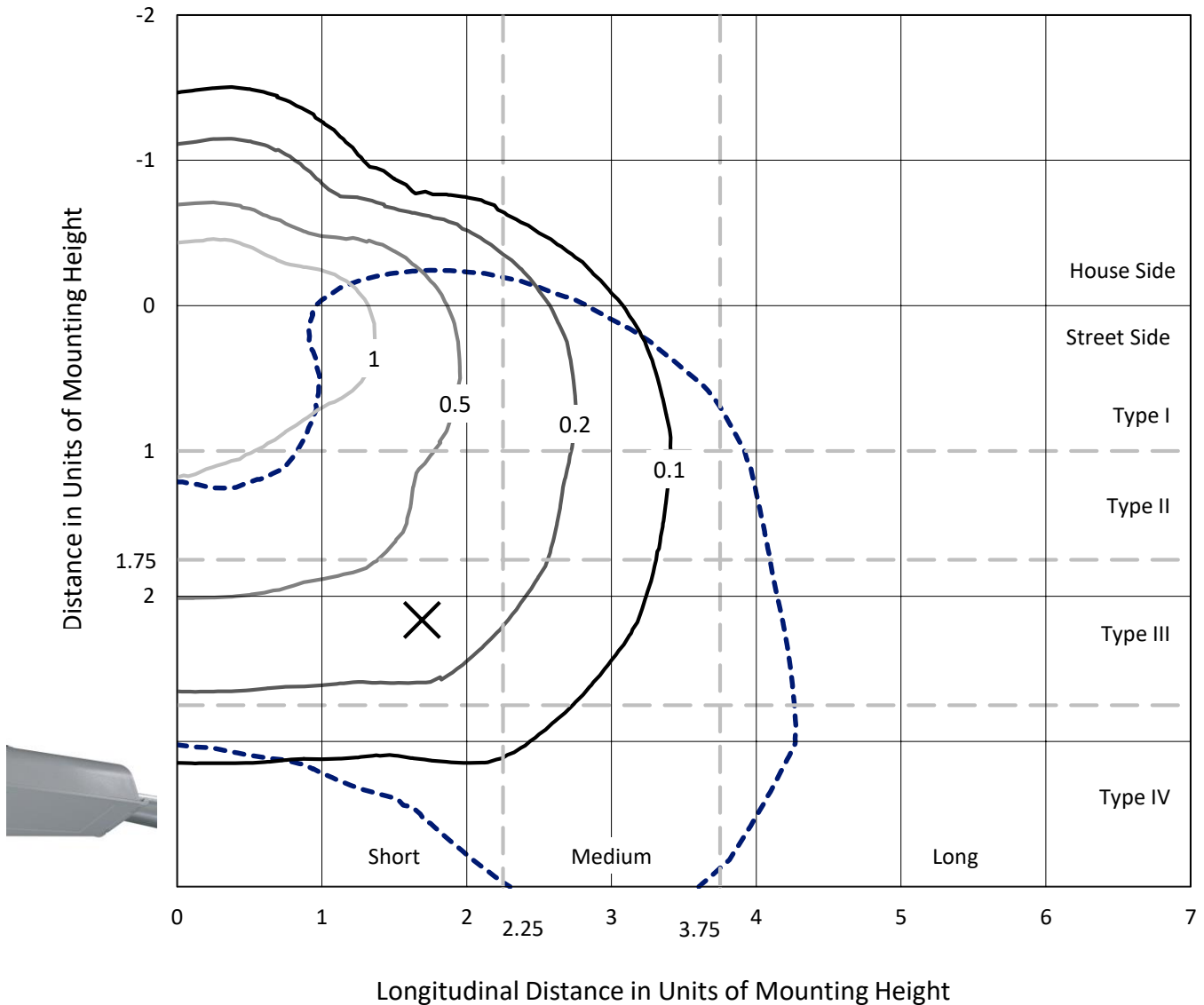


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Iso-Footcandle Lines of Horizontal Illumination

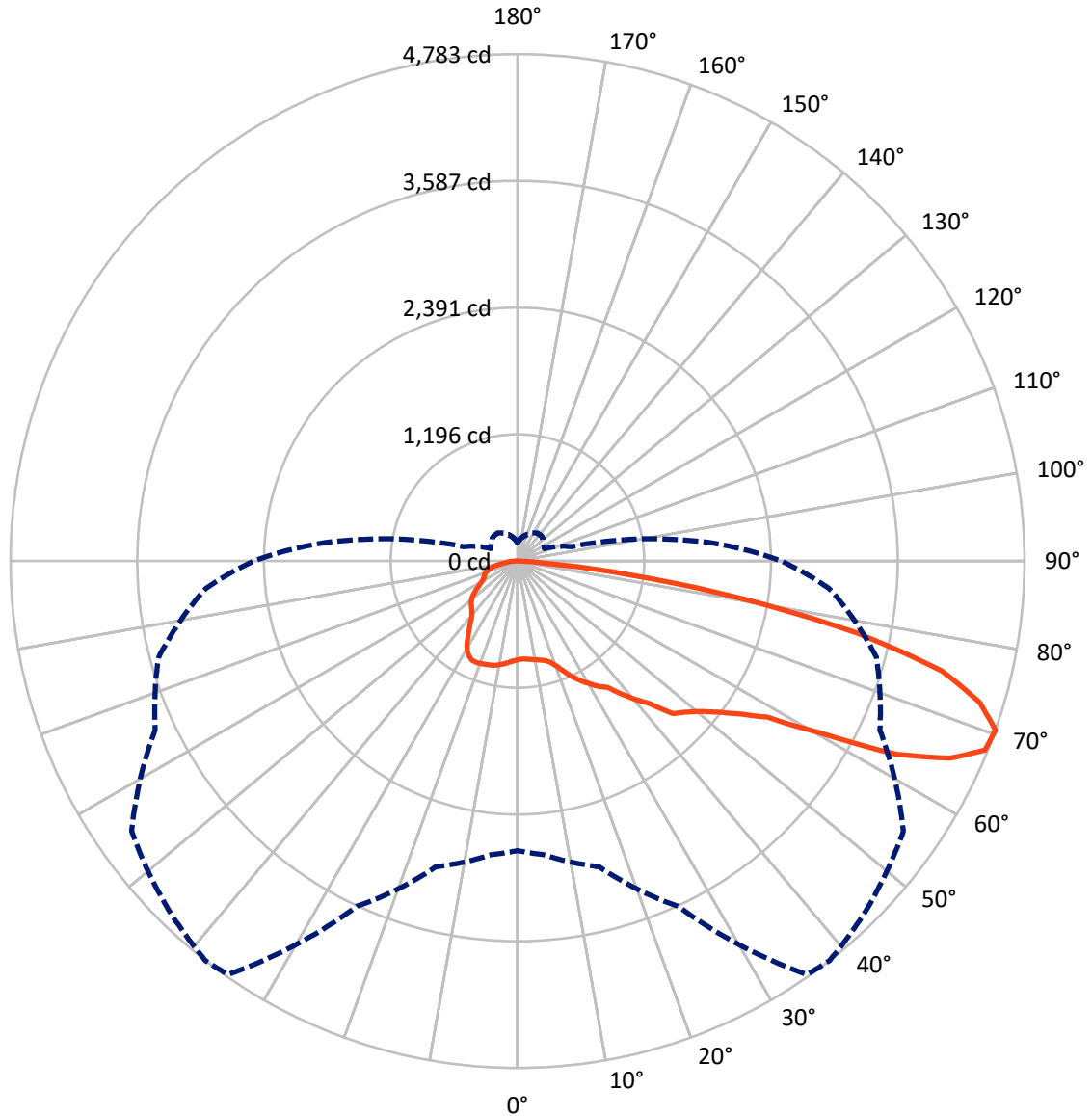
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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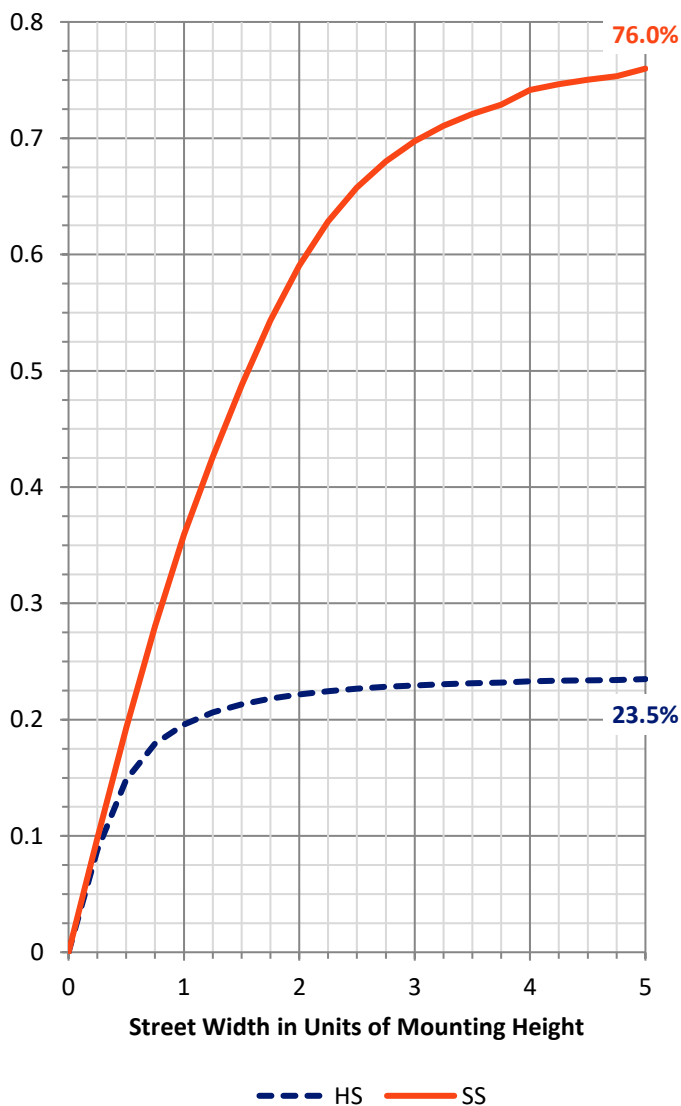
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.3	0.0	2043.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6559.7	0.0	6559.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	8603.0	0.0	8603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.1
10°-20°	285.6	3.3
20°-30°	530.0	6.2
30°-40°	820.5	9.5
40°-50°	1215.8	14.1
50°-60°	1694.0	19.7
60°-70°	2175.5	25.3
70°-80°	1591.6	18.5
80°-90°	199.4	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°	8603.0	100.0
0°-180°	8603.0	100.0

Coefficient of Utilization



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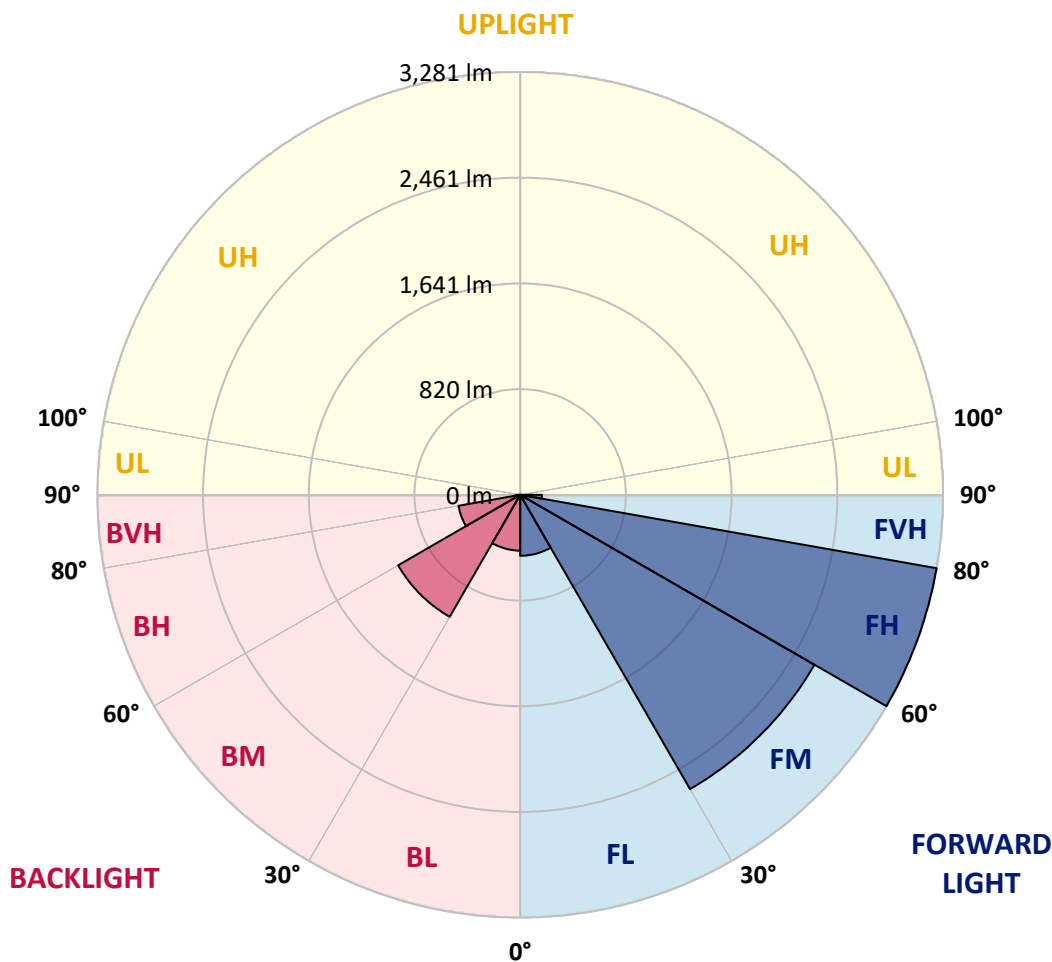
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.4	5.5			
FM	(30°-60°)	2636.6	30.6			
FH	(60°-80°)	3281.2	38.1			G2/5000
FVH	(80°-90°)	168.5	2.0			G2/225
BL	(0°-30°)	432.9	5.0	B1/500		
BM	(30°-60°)	1093.7	12.7	B2/2500		
BH	(60°-80°)	485.9	5.6	B1/500		G1/500
BVH	(80°-90°)	30.9	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6
2.5°	927.1	927.1	927.1	924.7	924.7	924.7	922.2	922.2	924.7	927.1	927.1
5°	934.5	934.5	932.0	932.0	929.6	929.6	929.6	927.1	927.1	927.1	932.0
7.5°	936.9	936.9	936.9	936.9	936.9	936.9	939.4	936.9	936.9	936.9	941.9
10°	936.9	936.9	939.4	939.4	944.3	946.8	949.2	954.1	954.1	954.1	956.6
12.5°	941.9	941.9	944.3	946.8	954.1	959.0	963.9	971.3	973.7	973.7	976.2
15°	951.7	951.7	954.1	961.5	971.3	973.7	981.1	990.9	1000.7	1003.2	1005.6
17.5°	990.9	990.9	990.9	990.9	1000.7	1003.2	1013.0	1027.7	1037.5	1042.4	1049.8
20°	1069.4	1071.8	1066.9	1064.5	1059.6	1059.6	1059.6	1066.9	1079.2	1096.4	1108.6
22.5°	1170.0	1170.0	1170.0	1150.3	1138.1	1135.6	1135.6	1133.2	1143.0	1160.1	1177.3
25°	1248.4	1250.9	1248.4	1231.3	1216.6	1211.7	1211.7	1219.0	1219.0	1233.7	1253.3
27.5°	1312.2	1317.1	1309.8	1295.0	1282.8	1280.3	1282.8	1304.9	1317.1	1326.9	1351.5
30°	1380.9	1383.3	1366.2	1356.4	1349.0	1344.1	1346.6	1378.4	1420.1	1432.4	1474.1
32.5°	1508.4	1508.4	1483.9	1427.5	1407.9	1410.3	1410.3	1452.0	1508.4	1564.8	1618.8
35°	1628.6	1626.2	1604.1	1555.0	1481.5	1464.3	1474.1	1518.2	1606.5	1702.2	1797.9
37.5°	1770.9	1766.0	1746.3	1677.7	1616.4	1589.4	1535.4	1594.3	1702.2	1891.1	1989.2
40°	1930.3	1922.9	1878.8	1810.1	1729.2	1716.9	1670.3	1680.1	1822.4	2089.7	2202.6
42.5°	2018.6	2013.7	1984.3	1927.9	1869.0	1844.5	1805.2	1793.0	1984.3	2347.3	2403.7
45°	2102.0	2111.8	2111.8	2084.8	2060.3	2055.4	2028.4	2038.2	2192.7	2558.2	2580.3
47.5°	2153.5	2163.3	2131.4	2126.5	2126.5	2129.0	2156.0	2222.2	2381.6	2756.9	2734.8
50°	2308.0	2300.7	2173.1	2192.7	2214.8	2229.5	2288.4	2393.9	2644.1	2935.9	2869.7
52.5°	2587.6	2521.4	2369.3	2325.2	2337.5	2366.9	2445.4	2582.7	2911.4	3095.4	2987.4
55°	2933.5	2894.2	2756.9	2560.7	2496.9	2545.9	2629.3	2769.1	3117.4	3245.0	3080.6
57.5°	3166.5	3181.2	3198.4	3063.5	2766.7	2779.0	2835.4	2953.1	3323.5	3389.7	3154.2
60°	3401.9	3419.1	3514.8	3480.4	3411.8	3298.9	3092.9	3149.3	3478.0	3485.3	3208.2
62.5°	3588.4	3600.6	3742.9	3821.4	4000.4	4015.1	3693.8	3397.0	3639.9	3561.4	3230.3
65°	3495.2	3517.2	3730.6	3948.9	4441.9	4483.6	4378.1	3715.9	3765.0	3590.8	3213.1
67.5°	3181.2	3213.1	3438.7	3902.3	4724.0	4755.9	4652.8	4316.8	3809.1	3578.5	3129.7
70°	2732.3	2779.0	2987.4	3595.7	4763.2	4782.8	4655.3	4444.4	3772.3	3505.0	2950.6
72.5°	2222.2	2259.0	2469.9	3083.1	4525.3	4557.2	4517.9	4338.9	3693.8	3362.7	2590.1
75°	1702.2	1704.7	1927.9	2415.9	4005.3	4132.9	4199.1	4135.3	3480.4	2958.0	1994.1
77.5°	1074.3	1106.2	1334.3	1829.7	3146.9	3276.9	3306.3	3227.8	2435.6	1815.0	858.5
80°	483.2	532.2	765.3	1236.2	2141.2	2136.3	2153.5	1959.7	1297.5	576.4	95.7
82.5°	174.1	184.0	321.3	620.5	1037.5	1064.5	1052.2	905.1	350.7	80.9	58.9
85°	73.6	78.5	105.5	166.8	235.5	250.2	215.8	164.3	56.4	46.6	39.2
87.5°	4.9	4.9	4.9	4.9	4.9	7.4	7.4	7.4	7.4	9.8	12.3
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°	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6
2.5°	927.1	929.6	932.0	936.9	936.9	939.4	941.9	944.3	944.3	944.3	944.3
5°	934.5	936.9	939.4	946.8	951.7	954.1	959.0	961.5	963.9	963.9	963.9
7.5°	944.3	946.8	951.7	959.0	966.4	971.3	976.2	978.6	981.1	981.1	981.1
10°	959.0	963.9	971.3	981.1	988.5	988.5	990.9	993.4	995.8	995.8	995.8
12.5°	978.6	983.5	995.8	1008.1	1010.5	1008.1	1003.2	1003.2	1000.7	998.3	998.3
15°	1010.5	1013.0	1030.1	1040.0	1032.6	1020.3	1010.5	1000.7	993.4	988.5	988.5
17.5°	1054.7	1062.0	1079.2	1079.2	1059.6	1037.5	1013.0	988.5	968.8	961.5	959.0
20°	1118.4	1128.3	1143.0	1128.3	1096.4	1057.1	1013.0	973.7	934.5	910.0	902.6
22.5°	1189.6	1201.8	1206.7	1174.9	1128.3	1074.3	1015.4	954.1	890.3	836.4	821.7
25°	1273.0	1280.3	1263.2	1211.7	1147.9	1079.2	1008.1	927.1	829.0	757.9	750.5
27.5°	1371.1	1363.7	1317.1	1238.6	1152.8	1069.4	981.1	873.2	750.5	696.6	689.2
30°	1476.5	1449.6	1363.7	1253.3	1138.1	1040.0	934.5	792.2	691.7	647.5	642.6
32.5°	1601.6	1547.7	1407.9	1255.8	1111.1	988.5	858.5	726.0	652.4	603.4	598.5
35°	1741.4	1658.1	1447.1	1241.1	1057.1	917.3	767.7	677.0	610.7	564.1	554.3
37.5°	1930.3	1807.7	1496.2	1209.2	988.5	826.6	701.5	625.4	569.0	517.5	510.2
40°	2124.1	1979.4	1564.8	1172.4	912.4	753.0	645.1	588.7	539.6	480.7	468.5
42.5°	2317.8	2151.1	1658.1	1128.3	836.4	696.6	620.5	583.8	524.9	463.6	451.3
45°	2477.3	2298.2	1746.3	1076.8	760.3	645.1	605.8	573.9	515.1	448.9	434.1
47.5°	2614.6	2420.9	1822.4	1030.1	686.8	605.8	593.6	556.8	500.4	434.1	419.4
50°	2729.9	2519.0	1883.7	990.9	625.4	578.8	569.0	524.9	466.0	409.6	399.8
52.5°	2830.5	2590.1	1910.7	978.6	564.1	547.0	529.8	485.6	431.7	380.2	365.5
55°	2896.7	2644.1	1905.8	978.6	505.3	502.8	483.2	448.9	409.6	367.9	353.2
57.5°	2948.2	2668.6	1869.0	836.4	456.2	446.4	434.1	419.4	394.9	348.3	333.6
60°	2972.7	2653.9	1790.5	608.3	407.2	390.0	399.8	394.9	370.4	306.6	296.8
62.5°	2958.0	2609.7	1613.9	443.9	355.6	353.2	367.9	358.1	311.5	255.1	250.2
65°	2901.6	2499.3	1388.2	333.6	326.2	343.4	350.7	331.1	287.0	235.5	215.8
67.5°	2756.9	2286.0	1010.5	299.2	316.4	336.0	340.9	314.0	269.8	220.7	196.2
70°	2489.5	1883.7	524.9	277.2	301.7	326.2	323.8	289.4	245.3	201.1	171.7
72.5°	2018.6	1336.7	198.7	247.7	279.6	304.1	299.2	260.0	174.1	125.1	112.8
75°	1309.8	640.2	171.7	213.4	250.2	272.3	274.7	235.5	152.1	105.5	90.8
77.5°	448.9	117.7	139.8	176.6	215.8	245.3	237.9	188.9	117.7	78.5	71.1
80°	76.0	78.5	107.9	125.1	149.6	196.2	166.8	134.9	93.2	56.4	46.6
82.5°	54.0	66.2	76.0	73.6	103.0	130.0	112.8	90.8	61.3	44.1	39.2
85°	39.2	44.1	41.7	44.1	58.9	85.8	78.5	63.8	44.1	31.9	27.0
87.5°	14.7	14.7	19.6	24.5	36.8	54.0	46.6	19.6	17.2	14.7	14.7
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)