

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: P507523

Luminaire Tested: **VERD-S-CA1-40-722-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-722-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 760mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943 lumens
Efficiency: N/A
Efficacy: 113.9 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

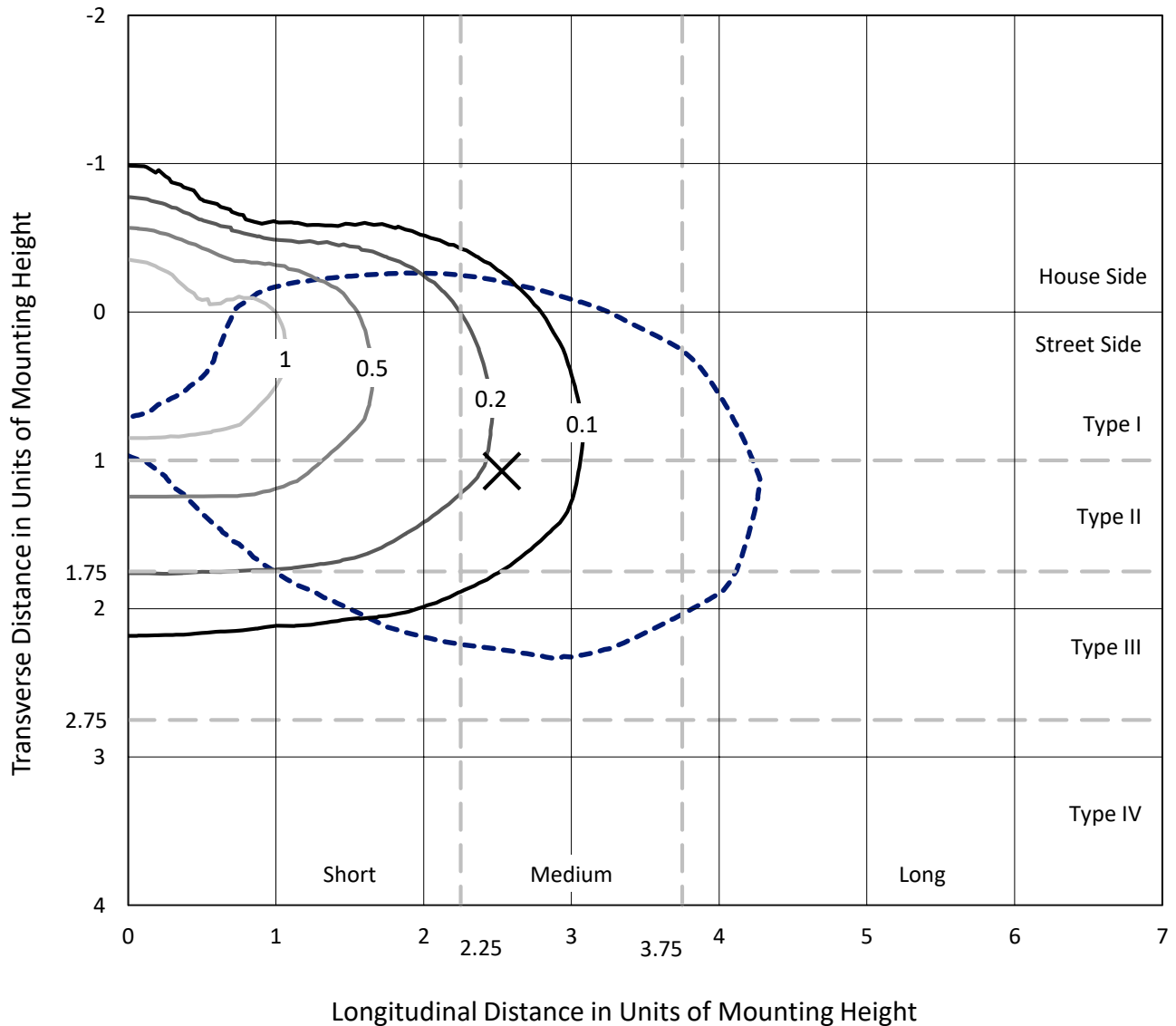
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

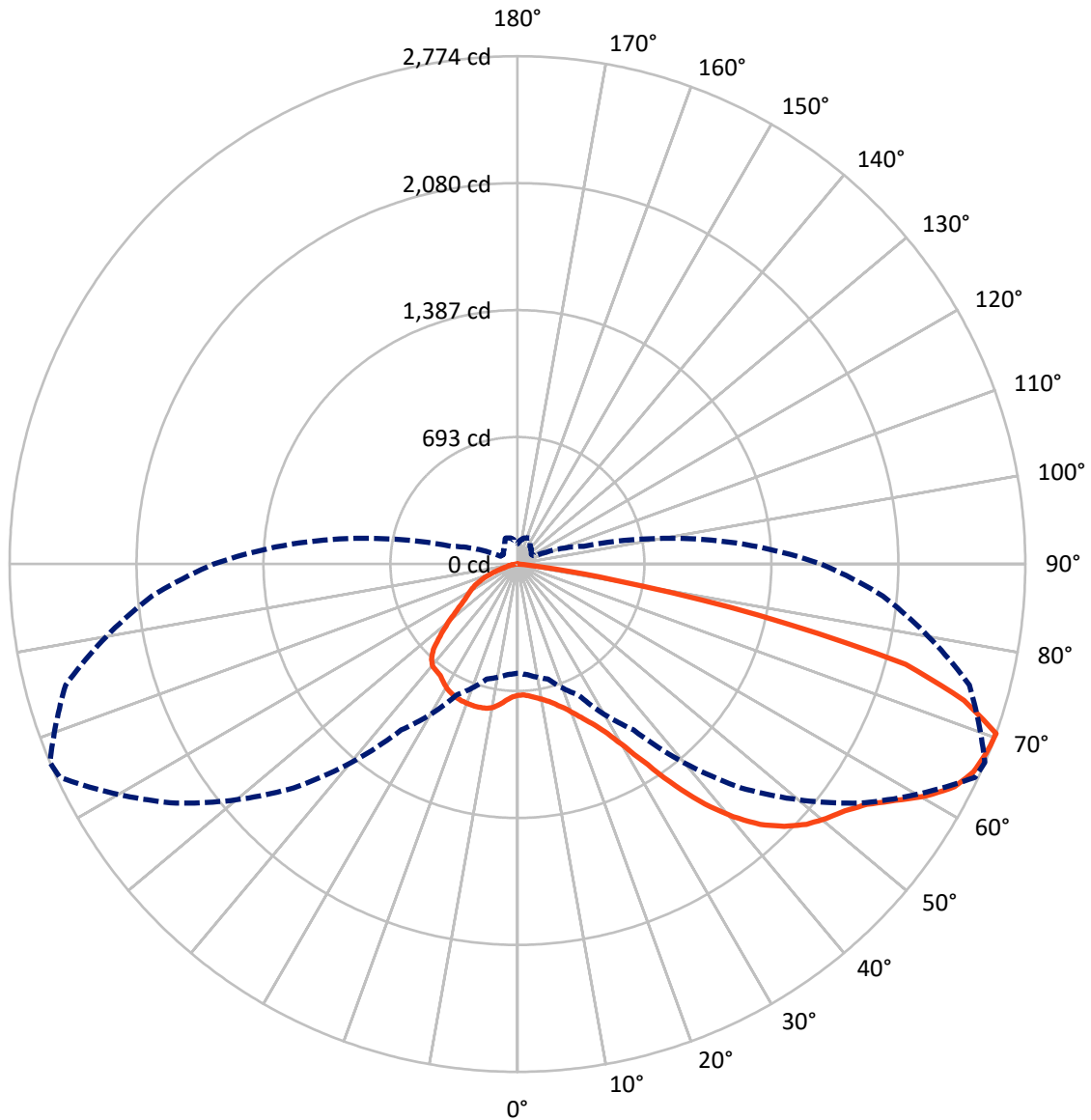
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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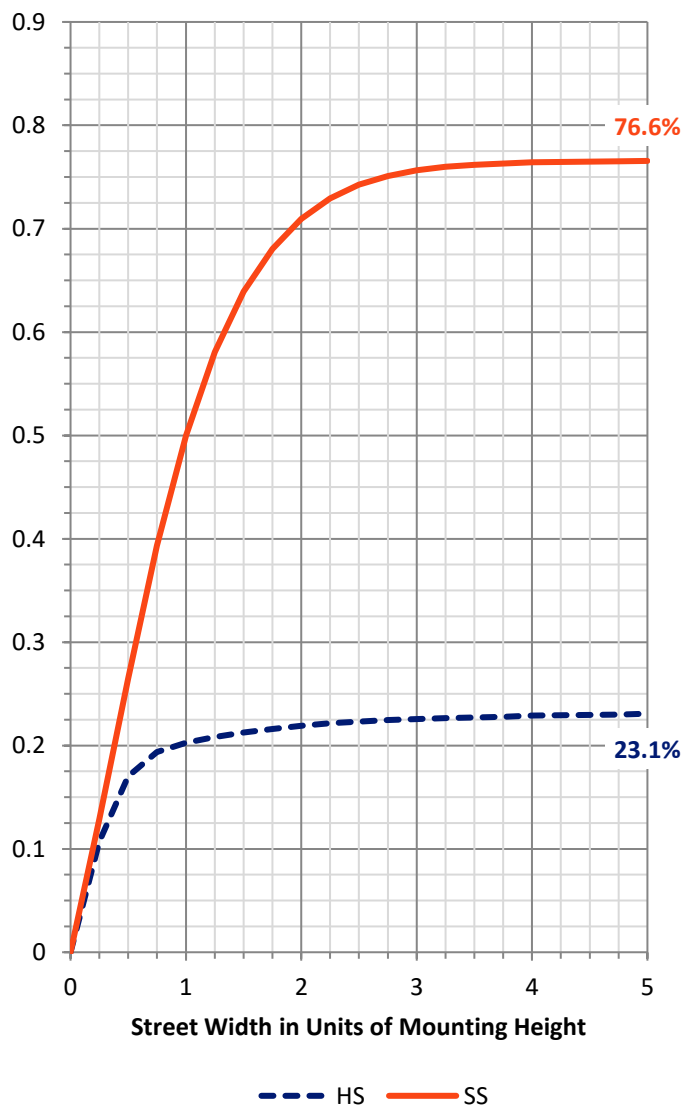
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1156.5	0.0	1156.5
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	3786.5	0.0	3786.5
	% Fixture	76.6	0.0	76.6
Total	Lumens	4943.0	0.0	4943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.5
10°-20°	234.3	4.7
20°-30°	413.2	8.4
30°-40°	633.4	12.8
40°-50°	863.4	17.5
50°-60°	1021.7	20.7
60°-70°	1065.2	21.5
70°-80°	595.8	12.1
80°-90°	43.1	0.9
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°	4943.0	100.0
0°-180°	4943.0	100.0

Coefficient of Utilization



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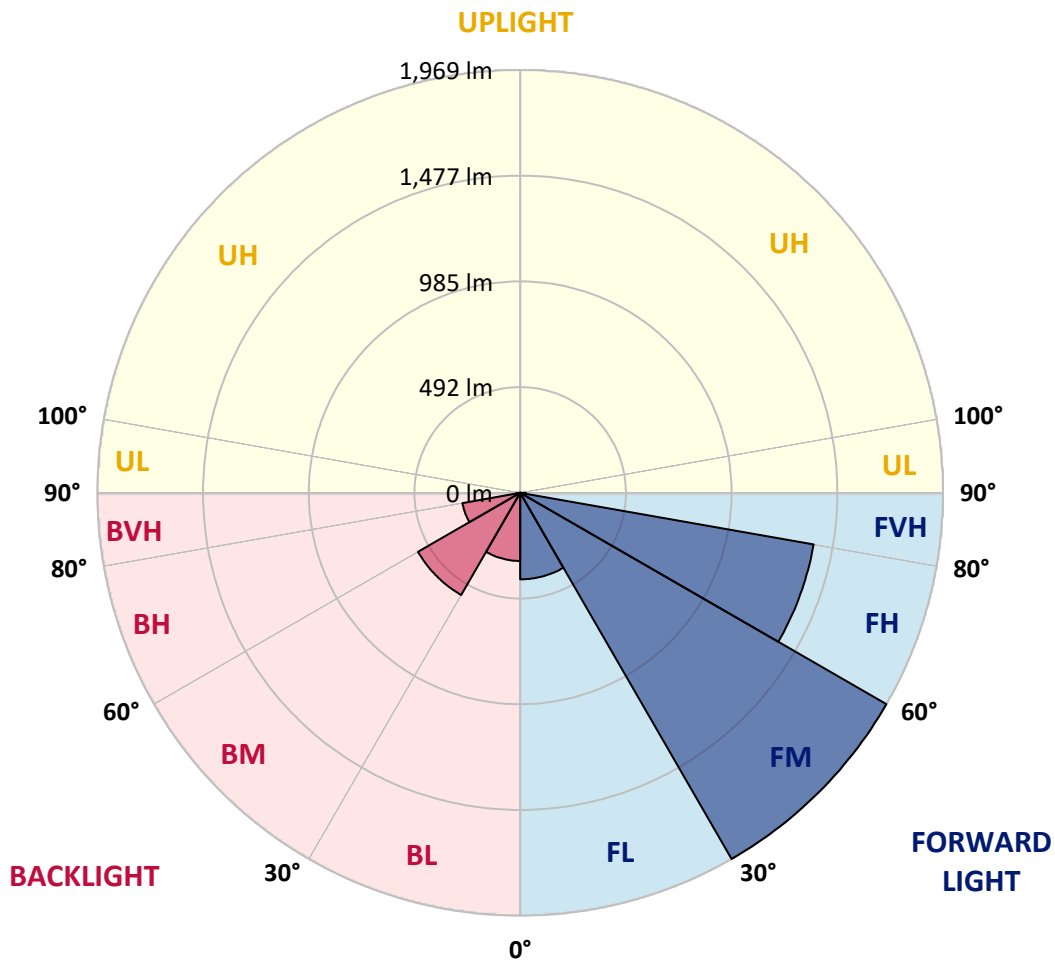
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.9	8.2			
FM (30°-60°)	1969.3	39.8			
FH (60°-80°)	1387.9	28.1			G1/1800
FVH (80°-90°)	26.4	0.5			G1/100
BL (0°-30°)	317.5	6.4	B1/500		
BM (30°-60°)	549.3	11.1	B1/1000		
BH (60°-80°)	273.1	5.5	B1/500		G1/500
BVH (80°-90°)	16.7	0.3			G1/100
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°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
2.5°	719.8	719.8	719.8	718.4	718.4	718.4	717.0	715.6	715.6	717.0	717.0
5°	738.0	738.0	736.6	735.2	732.4	729.6	726.8	725.4	725.4	725.4	726.8
7.5°	763.3	761.9	759.1	757.7	753.5	749.3	743.6	738.0	738.0	735.2	738.0
10°	794.2	794.2	790.0	787.1	781.5	770.3	761.9	753.5	752.1	749.3	753.5
12.5°	833.4	833.4	830.6	823.6	815.2	801.2	785.7	771.7	770.3	766.1	774.5
15°	881.2	876.9	875.5	869.9	854.5	836.3	815.2	797.0	797.0	790.0	799.8
17.5°	934.5	933.1	931.7	924.6	906.4	879.7	851.7	830.6	826.4	822.2	827.8
20°	999.0	997.6	996.2	985.0	963.9	931.7	898.0	869.9	867.1	862.9	858.7
22.5°	1073.4	1073.4	1067.8	1059.3	1029.9	992.0	951.3	916.2	916.2	912.0	892.4
25°	1144.9	1142.1	1139.3	1129.5	1105.7	1065.0	1017.3	976.6	971.0	971.0	937.3
27.5°	1210.9	1210.9	1215.1	1209.5	1185.6	1143.5	1095.8	1049.5	1046.7	1041.1	989.2
30°	1279.6	1282.4	1283.8	1283.8	1272.6	1240.3	1188.4	1153.4	1159.0	1144.9	1066.4
32.5°	1331.6	1334.4	1352.6	1369.4	1359.6	1341.4	1311.9	1300.7	1306.3	1317.5	1231.9
35°	1380.7	1384.9	1410.1	1445.2	1460.6	1452.2	1456.4	1476.1	1488.7	1533.6	1459.2
37.5°	1417.1	1421.3	1443.8	1487.3	1533.6	1557.5	1596.7	1640.2	1664.1	1721.6	1615.0
40°	1427.0	1434.0	1480.3	1539.2	1609.4	1680.9	1728.6	1784.8	1814.2	1840.9	1720.2
42.5°	1393.3	1400.3	1460.6	1584.1	1682.3	1791.8	1843.7	1920.9	1944.7	1929.3	1801.6
45°	1372.2	1376.5	1438.2	1579.9	1745.5	1898.4	1948.9	2030.3	2044.3	2006.4	1871.7
47.5°	1342.8	1347.0	1412.9	1572.9	1796.0	1991.0	2026.1	2106.1	2124.3	2071.0	1925.1
50°	1299.3	1304.9	1380.7	1560.3	1829.7	2054.2	2092.0	2174.8	2184.6	2128.5	1981.2
52.5°	1247.4	1255.8	1335.8	1533.6	1852.1	2094.8	2144.0	2229.5	2239.4	2202.9	2041.5
55°	1184.2	1192.6	1278.2	1494.3	1845.1	2107.5	2166.4	2299.7	2316.5	2287.1	2093.4
57.5°	1122.5	1128.1	1216.5	1436.8	1805.8	2127.1	2233.8	2413.3	2435.8	2374.1	2135.5
60°	1048.1	1060.8	1146.3	1358.2	1745.5	2146.8	2320.7	2549.4	2570.5	2458.2	2167.8
62.5°	971.0	982.2	1057.9	1260.0	1651.5	2128.5	2386.7	2667.3	2679.9	2525.6	2179.0
65°	881.2	882.6	952.7	1135.1	1516.8	2054.2	2392.3	2724.8	2737.5	2567.7	2159.4
67.5°	761.9	761.9	820.8	976.6	1335.8	1919.5	2341.8	2743.1	2761.3	2595.8	2111.7
70°	596.3	606.1	651.0	790.0	1105.7	1728.6	2277.2	2757.1	2773.9	2555.1	2003.6
72.5°	416.7	413.9	460.2	544.4	799.8	1379.3	2031.7	2550.9	2550.9	2347.4	1805.8
75°	127.7	143.1	164.2	220.3	364.8	924.6	1664.1	2162.2	2190.3	2033.1	1488.7
77.5°	42.1	42.1	49.1	60.3	78.6	196.4	832.0	1324.5	1347.0	1323.1	921.8
80°	33.7	33.7	37.9	43.5	50.5	101.0	293.2	496.7	533.2	587.9	381.6
82.5°	23.9	23.9	25.3	26.7	25.3	40.7	77.2	131.9	134.7	145.9	123.5
85°	15.4	14.0	14.0	12.6	11.2	11.2	9.8	9.8	11.2	11.2	14.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2
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°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
2.5°	718.4	719.8	724.0	726.8	729.6	732.4	733.8	735.2	735.2	736.6	736.6
5°	728.2	731.0	738.0	745.1	756.3	767.5	777.3	782.9	784.3	790.0	790.0
7.5°	740.8	745.1	761.9	774.5	791.4	804.0	815.2	820.8	826.4	829.2	829.2
10°	760.5	766.1	782.9	797.0	811.0	820.8	827.8	832.0	833.4	834.9	834.9
12.5°	780.1	787.1	797.0	808.2	816.6	822.2	826.4	827.8	827.8	827.8	827.8
15°	801.2	804.0	806.8	809.6	813.8	815.2	815.2	813.8	811.0	809.6	809.6
17.5°	822.2	819.4	815.2	809.6	804.0	799.8	794.2	788.5	784.3	781.5	782.9
20°	847.5	839.1	820.8	806.8	791.4	775.9	763.3	752.1	743.6	742.2	743.6
22.5°	876.9	860.1	830.6	801.2	774.5	746.5	719.8	704.4	695.9	688.9	688.9
25°	912.0	885.4	839.1	792.8	750.7	705.8	669.3	645.4	631.4	623.0	625.8
27.5°	952.7	919.0	847.5	780.1	715.6	656.7	608.9	571.1	555.6	544.4	545.8
30°	1011.6	958.3	857.3	761.9	670.7	596.3	533.2	488.3	461.6	453.2	456.0
32.5°	1143.5	1042.5	868.5	735.2	620.2	524.8	440.6	385.9	357.8	357.8	356.4
35°	1363.8	1217.9	895.2	703.0	564.1	444.8	336.7	286.2	284.8	290.4	291.8
37.5°	1518.2	1379.3	978.0	672.1	502.3	348.0	249.8	235.7	249.8	255.4	254.0
40°	1617.8	1476.1	1073.4	639.8	415.3	249.8	197.8	188.0	202.0	213.3	221.7
42.5°	1699.2	1543.4	1116.9	597.7	310.1	179.6	145.9	143.1	164.2	179.6	185.2
45°	1763.7	1605.2	1122.5	538.8	210.5	133.3	119.3	131.9	157.1	169.8	171.2
47.5°	1815.6	1655.7	1107.1	444.8	140.3	116.5	116.5	133.3	157.1	169.8	169.8
50°	1866.1	1697.8	1067.8	362.0	126.3	113.7	117.9	134.7	155.7	165.6	165.6
52.5°	1908.2	1725.8	999.0	289.0	122.1	110.8	117.9	134.7	152.9	157.1	154.3
55°	1946.1	1737.0	937.3	232.9	117.9	109.4	120.7	137.5	151.5	151.5	145.9
57.5°	1967.2	1710.4	891.0	192.2	113.7	109.4	122.1	140.3	155.7	158.6	154.3
60°	1967.2	1672.5	840.5	169.8	110.8	109.4	122.1	150.1	185.2	171.2	169.8
62.5°	1940.5	1631.8	764.7	151.5	106.6	110.8	123.5	167.0	225.9	169.8	162.8
65°	1894.2	1553.2	665.1	134.7	102.4	112.2	122.1	192.2	269.4	164.2	144.5
67.5°	1807.2	1428.4	541.6	117.9	96.8	109.4	119.3	176.8	165.6	136.1	122.1
70°	1657.1	1241.8	376.0	102.4	92.6	106.6	119.3	155.7	147.3	124.9	109.4
72.5°	1434.0	1018.7	202.0	84.2	81.4	101.0	116.5	143.1	126.3	102.4	92.6
75°	1101.4	724.0	123.5	65.9	67.3	89.8	108.0	136.1	120.7	98.2	85.6
77.5°	635.6	335.3	88.4	49.1	47.7	71.6	96.8	126.3	117.9	95.4	82.8
80°	232.9	138.9	60.3	36.5	32.3	51.9	75.8	102.4	112.2	94.0	84.2
82.5°	99.6	74.4	39.3	25.3	23.9	29.5	46.3	71.6	94.0	75.8	70.2
85°	14.0	14.0	14.0	12.6	14.0	18.2	19.6	35.1	51.9	28.1	28.1
87.5°	5.6	5.6	5.6	5.6	7.0	7.0	5.6	5.6	4.2	4.2	4.2
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)