

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: P507555

Luminaire Tested: **VERD-S-CA1-40-750-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507555
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-CA1-40-750-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 760mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6176 lumens
Efficiency: N/A
Efficacy: 142.3 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

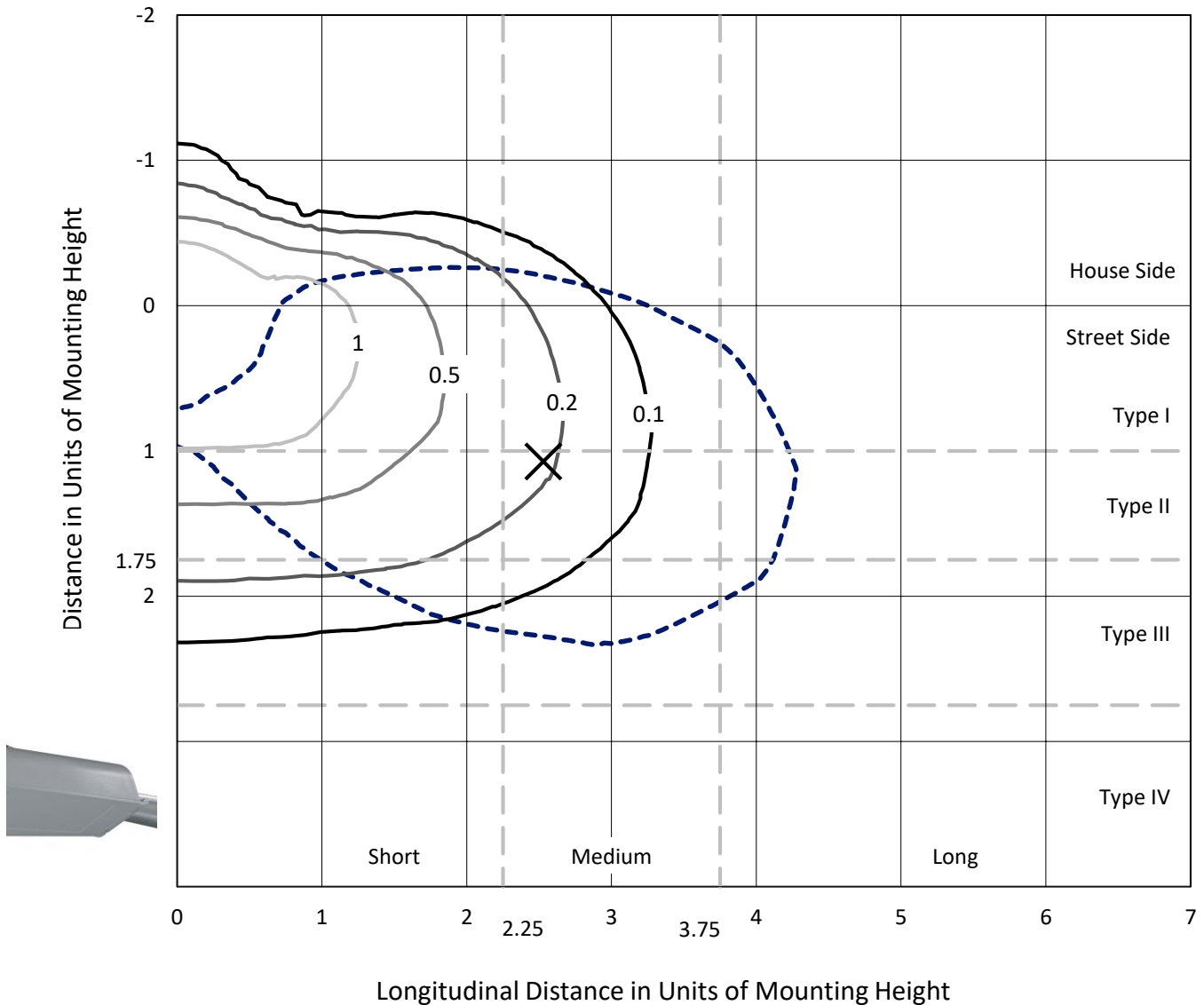
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

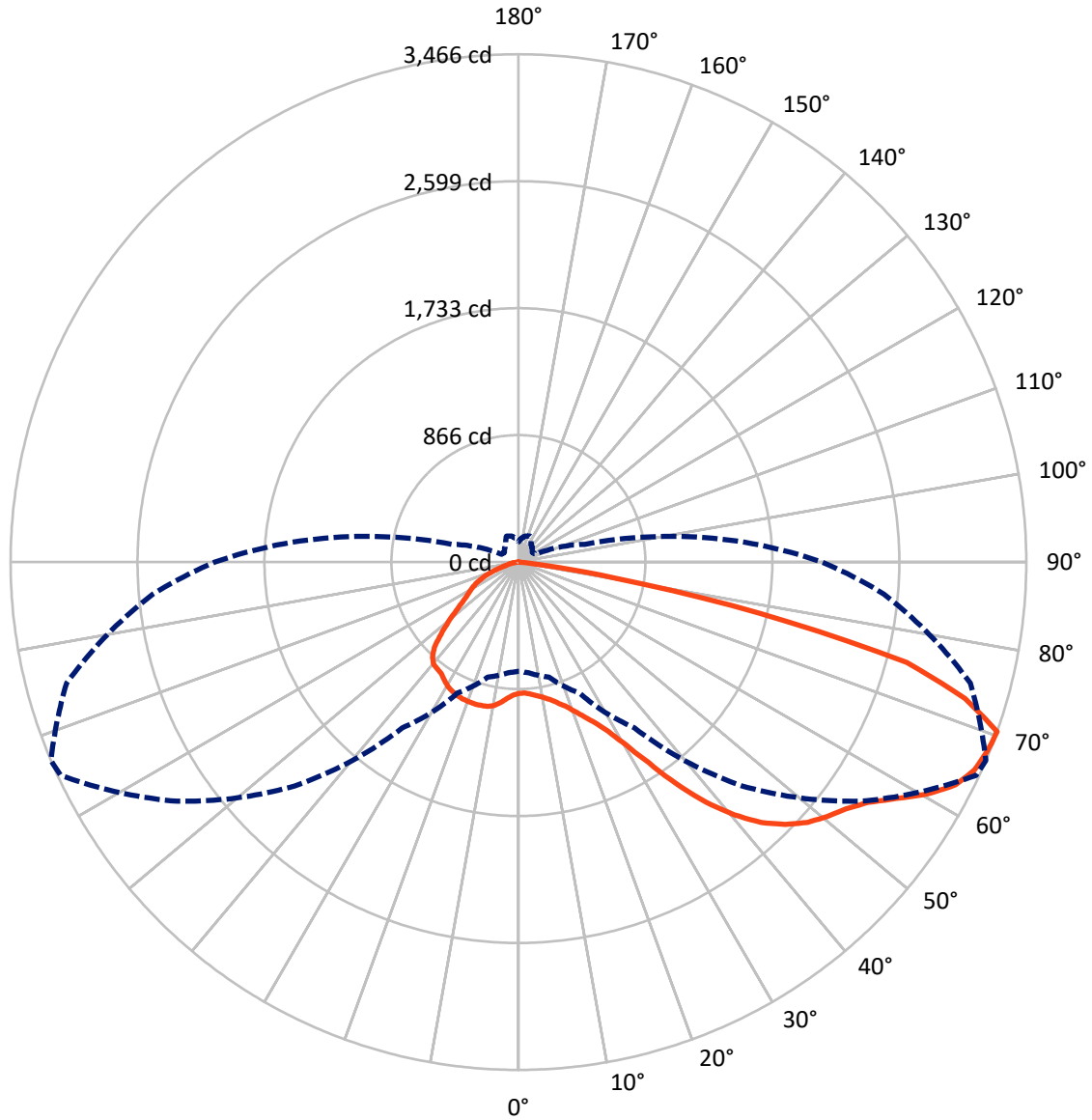
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P507555
CATALOG NUMBER: VERD-S-CA1-40-750-U-T3

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: VERD-S-CA1-40-750-U-T3

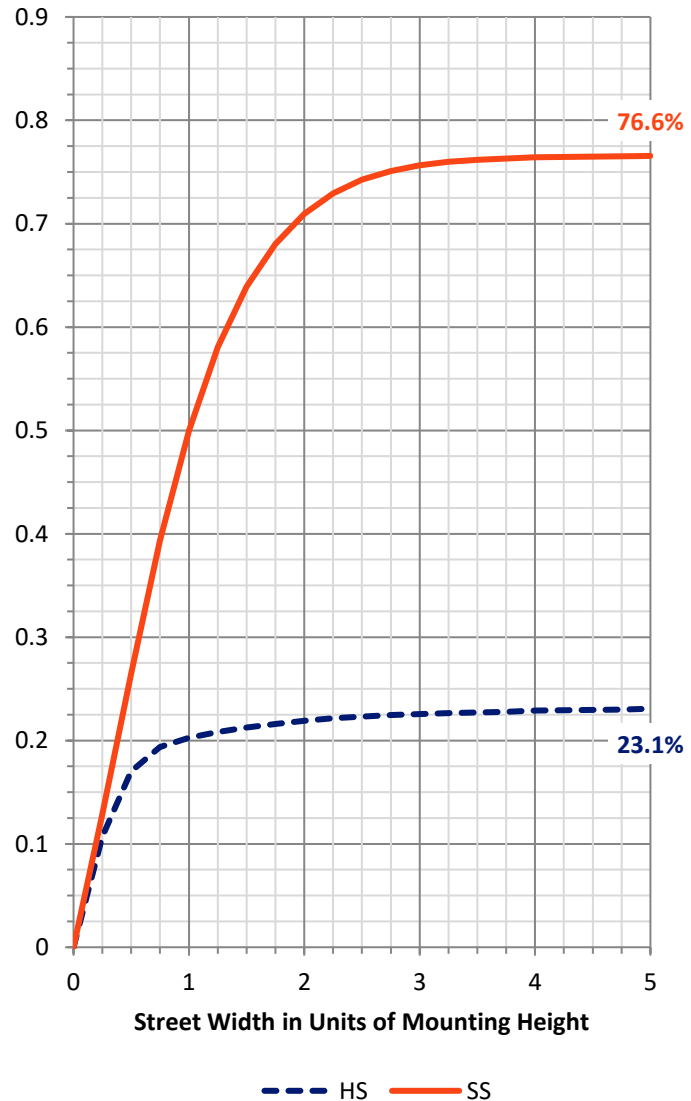
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.0	0.0	1445.0
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	4731.0	0.0	4731.0
	% Fixture	76.6	0.0	76.6
Total	Lumens	6176.0	0.0	6176.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.5
10°-20°	292.8	4.7
20°-30°	516.3	8.4
30°-40°	791.4	12.8
40°-50°	1078.8	17.5
50°-60°	1276.6	20.7
60°-70°	1330.8	21.5
70°-80°	744.5	12.1
80°-90°	53.9	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°	6176.0	100.0
0°-180°	6176.0	100.0



REPORT NUMBER: P507555

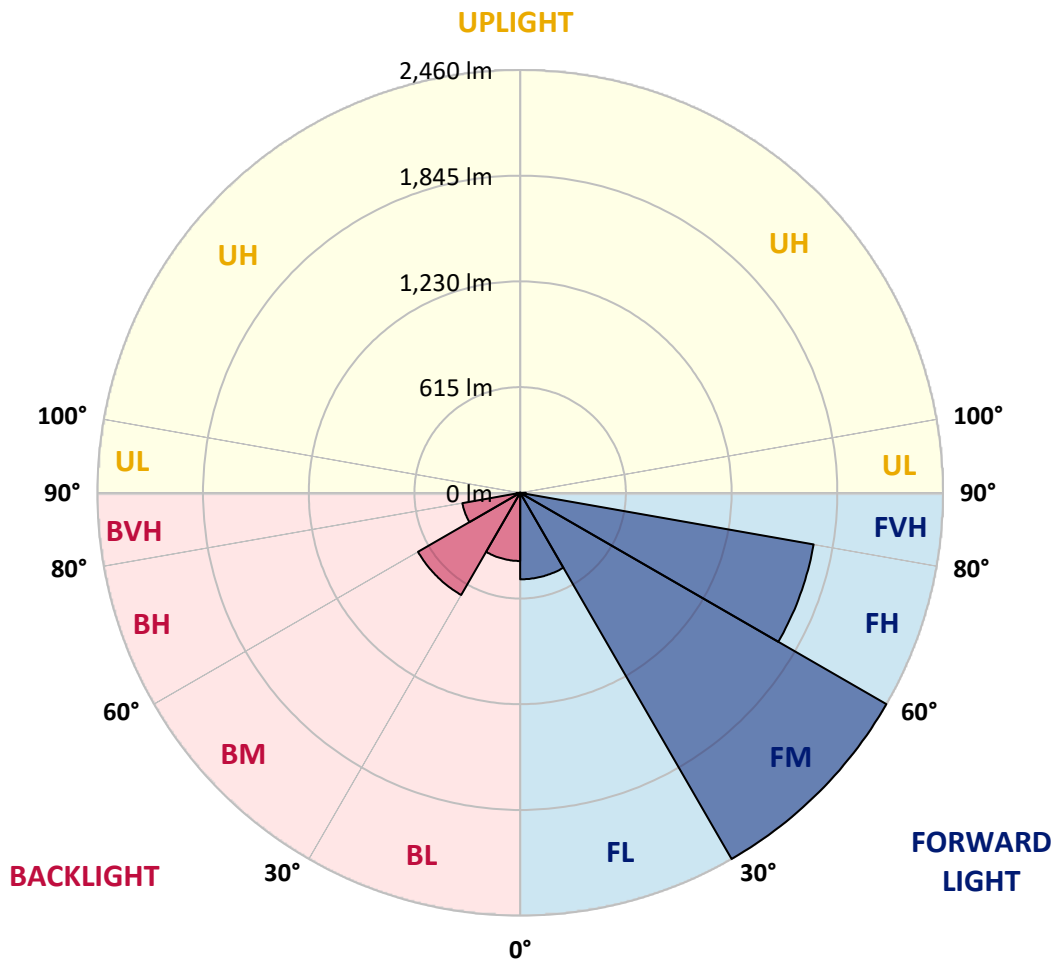
CATALOG NUMBER: VERD-S-CA1-40-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.4	8.2			
FM (30°-60°)	2460.5	39.8			
FH (60°-80°)	1734.1	28.1			G1/1800
FVH (80°-90°)	33.0	0.5			G1/100
BL (0°-30°)	396.6	6.4	B1/500		
BM (30°-60°)	686.3	11.1	B1/1000		
BH (60°-80°)	341.2	5.5	B1/500		G1/500
BVH (80°-90°)	20.9	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°	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8
2.5°	899.3	899.3	899.3	897.6	897.6	897.6	895.8	894.1	894.1	895.8	895.8
5°	922.1	922.1	920.4	918.6	915.1	911.6	908.1	906.4	906.4	906.4	908.1
7.5°	953.7	951.9	948.4	946.7	941.4	936.2	929.1	922.1	922.1	918.6	922.1
10°	992.3	992.3	987.0	983.5	976.5	962.5	951.9	941.4	939.7	936.2	941.4
12.5°	1041.3	1041.3	1037.8	1029.1	1018.6	1001.0	981.7	964.2	962.5	957.2	967.7
15°	1101.0	1095.7	1093.9	1086.9	1067.6	1044.9	1018.6	995.8	995.8	987.0	999.3
17.5°	1167.6	1165.8	1164.1	1155.3	1132.5	1099.2	1064.1	1037.8	1032.6	1027.3	1034.3
20°	1248.2	1246.5	1244.7	1230.7	1204.4	1164.1	1122.0	1086.9	1083.4	1078.2	1072.9
22.5°	1341.1	1341.1	1334.1	1323.6	1286.8	1239.4	1188.6	1144.8	1144.8	1139.5	1115.0
25°	1430.5	1427.0	1423.5	1411.3	1381.4	1330.6	1271.0	1220.2	1213.1	1213.1	1171.1
27.5°	1512.9	1512.9	1518.2	1511.2	1481.4	1428.8	1369.2	1311.3	1307.8	1300.8	1235.9
30°	1598.8	1602.3	1604.1	1604.1	1590.1	1549.7	1484.9	1441.1	1448.1	1430.5	1332.4
32.5°	1663.7	1667.2	1690.0	1711.0	1698.8	1676.0	1639.2	1625.1	1632.1	1646.2	1539.2
35°	1725.1	1730.3	1761.9	1805.7	1825.0	1814.5	1819.7	1844.3	1860.0	1916.1	1823.2
37.5°	1770.6	1775.9	1803.9	1858.3	1916.1	1945.9	1995.0	2049.4	2079.2	2151.1	2017.8
40°	1782.9	1791.7	1849.5	1923.2	2010.8	2100.2	2159.8	2230.0	2266.8	2300.1	2149.3
42.5°	1740.8	1749.6	1825.0	1979.3	2102.0	2238.7	2303.6	2400.0	2429.8	2410.5	2251.0
45°	1714.5	1719.8	1796.9	1974.0	2180.9	2372.0	2435.1	2536.7	2554.3	2506.9	2338.6
47.5°	1677.7	1683.0	1765.4	1965.2	2244.0	2487.7	2531.5	2631.4	2654.2	2587.6	2405.3
50°	1623.4	1630.4	1725.1	1949.5	2286.1	2566.5	2613.9	2717.3	2729.6	2659.5	2475.4
52.5°	1558.5	1569.0	1669.0	1916.1	2314.1	2617.4	2678.7	2785.7	2798.0	2752.4	2550.8
55°	1479.6	1490.1	1597.1	1867.1	2305.3	2633.2	2706.8	2873.3	2894.4	2857.6	2615.6
57.5°	1402.5	1409.5	1519.9	1795.2	2256.2	2657.7	2790.9	3015.3	3043.4	2966.3	2668.2
60°	1309.6	1325.3	1432.3	1697.0	2180.9	2682.3	2899.6	3185.4	3211.7	3071.4	2708.5
62.5°	1213.1	1227.2	1321.8	1574.3	2063.4	2659.5	2982.0	3332.7	3348.4	3155.6	2722.6
65°	1101.0	1102.7	1190.4	1418.3	1895.1	2566.5	2989.0	3404.5	3420.3	3208.2	2698.0
67.5°	951.9	951.9	1025.6	1220.2	1669.0	2398.2	2925.9	3427.3	3450.1	3243.2	2638.4
70°	745.1	757.3	813.4	987.0	1381.4	2159.8	2845.3	3444.9	3465.9	3192.4	2503.4
72.5°	520.7	517.2	575.0	680.2	999.3	1723.3	2538.5	3187.1	3187.1	2932.9	2256.2
75°	159.5	178.8	205.1	275.2	455.8	1155.3	2079.2	2701.5	2736.6	2540.3	1860.0
77.5°	52.6	52.6	61.4	75.4	98.2	245.4	1039.6	1654.9	1683.0	1653.2	1151.8
80°	42.1	42.1	47.3	54.3	63.1	126.2	366.4	620.6	666.2	734.6	476.8
82.5°	29.8	29.8	31.6	33.3	31.6	50.8	96.4	164.8	168.3	182.3	154.3
85°	19.3	17.5	17.5	15.8	14.0	14.0	12.3	12.3	14.0	14.0	17.5
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	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



REPORT NUMBER: P507555
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8
2.5°	897.6	899.3	904.6	908.1	911.6	915.1	916.9	918.6	918.6	920.4	920.4
5°	909.9	913.4	922.1	930.9	944.9	958.9	971.2	978.2	980.0	987.0	987.0
7.5°	925.6	930.9	951.9	967.7	988.8	1004.5	1018.6	1025.6	1032.6	1036.1	1036.1
10°	950.2	957.2	978.2	995.8	1013.3	1025.6	1034.3	1039.6	1041.3	1043.1	1043.1
12.5°	974.7	983.5	995.8	1009.8	1020.3	1027.3	1032.6	1034.3	1034.3	1034.3	1034.3
15°	1001.0	1004.5	1008.0	1011.5	1016.8	1018.6	1018.6	1016.8	1013.3	1011.5	1011.5
17.5°	1027.3	1023.8	1018.6	1011.5	1004.5	999.3	992.3	985.2	980.0	976.5	978.2
20°	1058.9	1048.4	1025.6	1008.0	988.8	969.5	953.7	939.7	929.1	927.4	929.1
22.5°	1095.7	1074.7	1037.8	1001.0	967.7	932.7	899.3	880.1	869.5	860.8	860.8
25°	1139.5	1106.2	1048.4	990.5	937.9	881.8	836.2	806.4	788.9	778.4	781.9
27.5°	1190.4	1148.3	1058.9	974.7	894.1	820.5	760.8	713.5	694.2	680.2	682.0
30°	1264.0	1197.4	1071.1	951.9	838.0	745.1	666.2	610.1	576.8	566.3	569.8
32.5°	1428.8	1302.6	1085.2	918.6	774.9	655.7	550.5	482.1	447.0	447.0	445.3
35°	1704.0	1521.7	1118.5	878.3	704.7	555.7	420.7	357.6	355.9	362.9	364.6
37.5°	1896.9	1723.3	1221.9	839.7	627.6	434.8	312.1	294.5	312.1	319.1	317.3
40°	2021.3	1844.3	1341.1	799.4	518.9	312.1	247.2	234.9	252.4	266.5	277.0
42.5°	2123.0	1928.4	1395.5	746.8	387.4	224.4	182.3	178.8	205.1	224.4	231.4
45°	2203.7	2005.6	1402.5	673.2	263.0	166.5	149.0	164.8	196.3	212.1	213.9
47.5°	2268.5	2068.7	1383.2	555.7	175.3	145.5	145.5	166.5	196.3	212.1	212.1
50°	2331.6	2121.3	1334.1	452.3	157.8	142.0	147.3	168.3	194.6	206.9	206.9
52.5°	2384.2	2156.3	1248.2	361.1	152.5	138.5	147.3	168.3	191.1	196.3	192.8
55°	2431.6	2170.3	1171.1	291.0	147.3	136.7	150.8	171.8	189.3	189.3	182.3
57.5°	2457.9	2137.0	1113.2	240.2	142.0	136.7	152.5	175.3	194.6	198.1	192.8
60°	2457.9	2089.7	1050.1	212.1	138.5	136.7	152.5	187.6	231.4	213.9	212.1
62.5°	2424.5	2038.9	955.4	189.3	133.2	138.5	154.3	208.6	282.3	212.1	203.4
65°	2366.7	1940.7	831.0	168.3	128.0	140.2	152.5	240.2	336.6	205.1	180.6
67.5°	2258.0	1784.7	676.7	147.3	121.0	136.7	149.0	220.9	206.9	170.1	152.5
70°	2070.4	1551.5	469.8	128.0	115.7	133.2	149.0	194.6	184.1	156.0	136.7
72.5°	1791.7	1272.8	252.4	105.2	101.7	126.2	145.5	178.8	157.8	128.0	115.7
75°	1376.2	904.6	154.3	82.4	84.1	112.2	135.0	170.1	150.8	122.7	106.9
77.5°	794.2	419.0	110.4	61.4	59.6	89.4	121.0	157.8	147.3	119.2	103.4
80°	291.0	173.6	75.4	45.6	40.3	64.9	94.7	128.0	140.2	117.5	105.2
82.5°	124.5	92.9	49.1	31.6	29.8	36.8	57.9	89.4	117.5	94.7	87.7
85°	17.5	17.5	17.5	15.8	17.5	22.8	24.5	43.8	64.9	35.1	35.1
87.5°	7.0	7.0	7.0	7.0	8.8	8.8	7.0	7.0	5.3	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)