

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: P507507

Luminaire Tested: **VERD-S-CA1-30-750-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507507  
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-CA1-30-750-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 590mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4863.6 lumens  
Efficiency: N/A  
Efficacy: 143.0 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): 34  
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

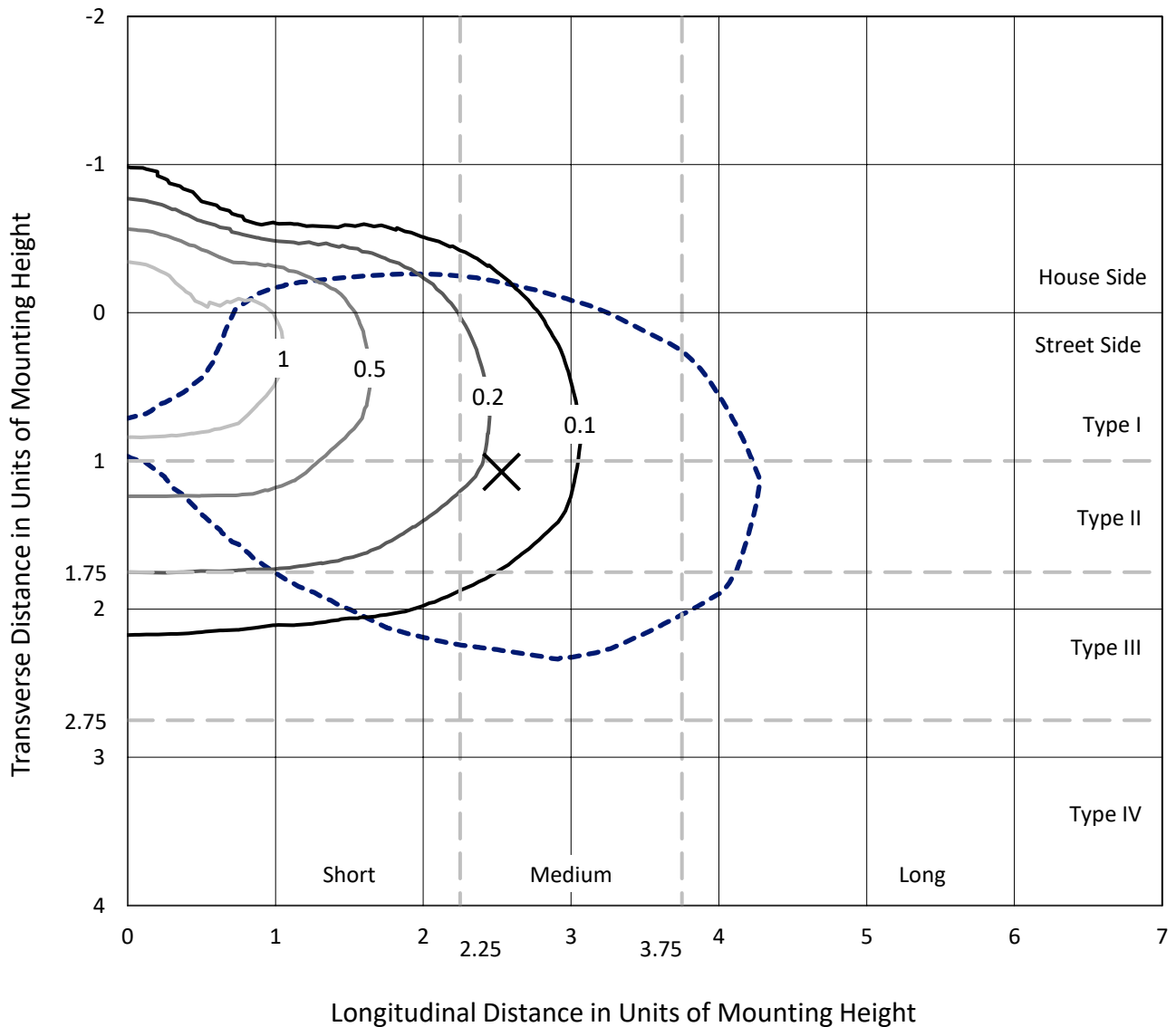




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### Iso-Footcandle Lines of Horizontal Illumination

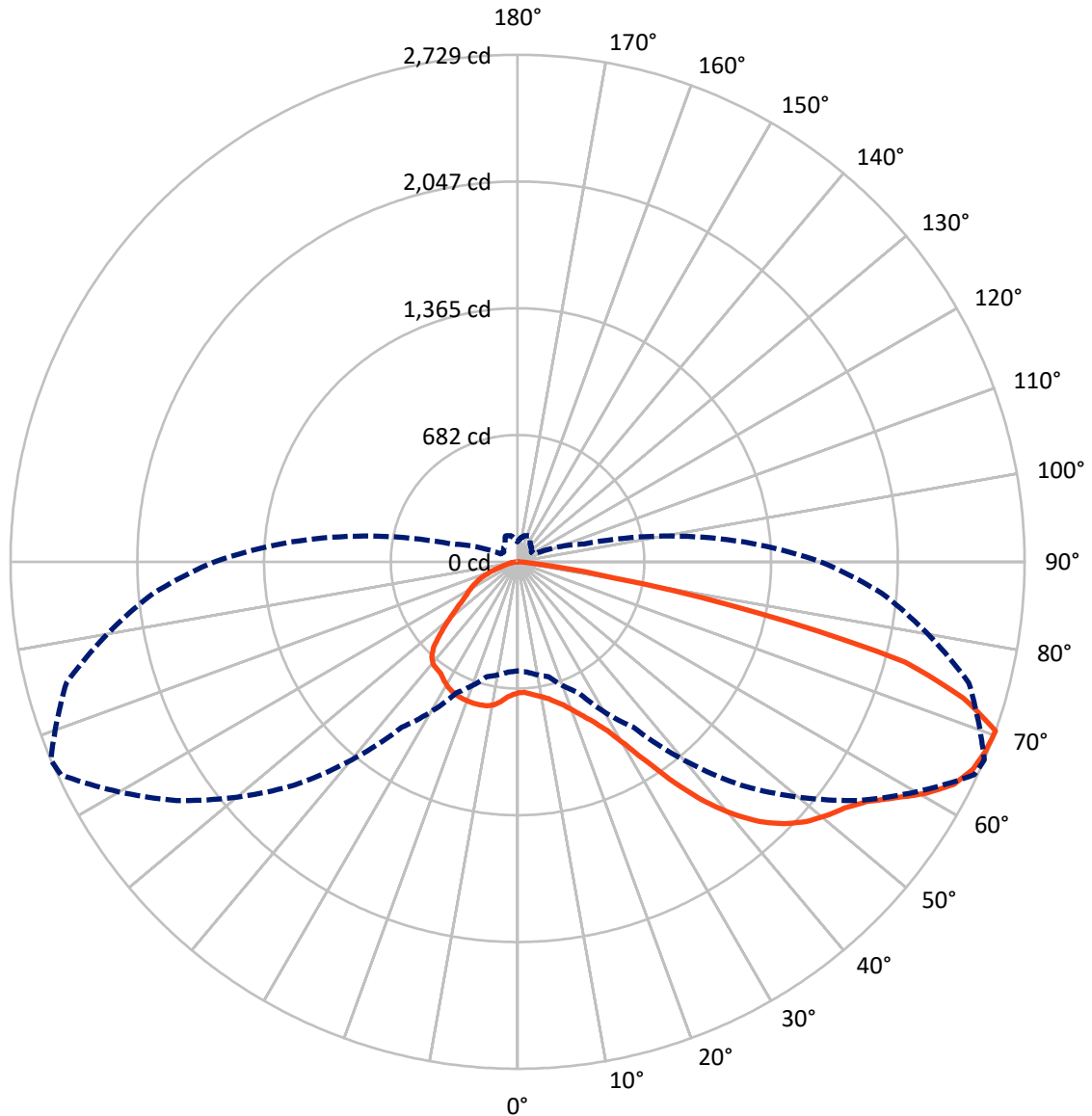
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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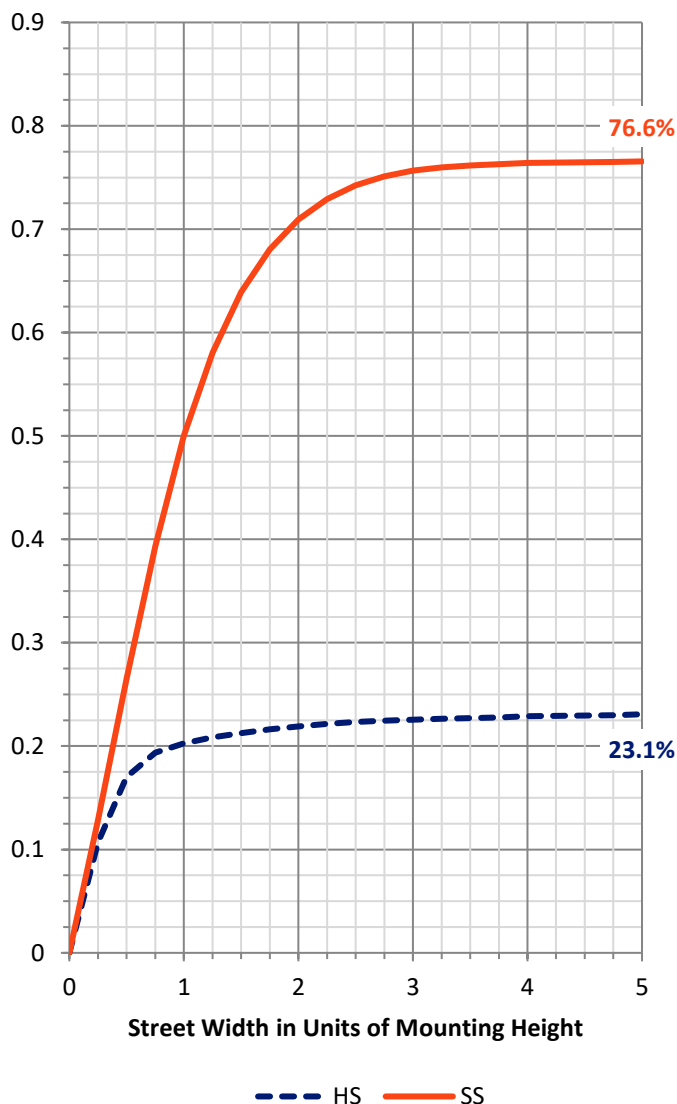
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1138.0	0.0	1138.0
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	3725.6	0.0	3725.6
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	4863.6	0.0	4863.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	1.5
10°-20°	230.5	4.7
20°-30°	406.6	8.4
30°-40°	623.3	12.8
40°-50°	849.6	17.5
50°-60°	1005.3	20.7
60°-70°	1048.0	21.5
70°-80°	586.3	12.1
80°-90°	42.4	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°	4863.6	100.0
0°-180°	4863.6	100.0

**Coefficient of Utilization**

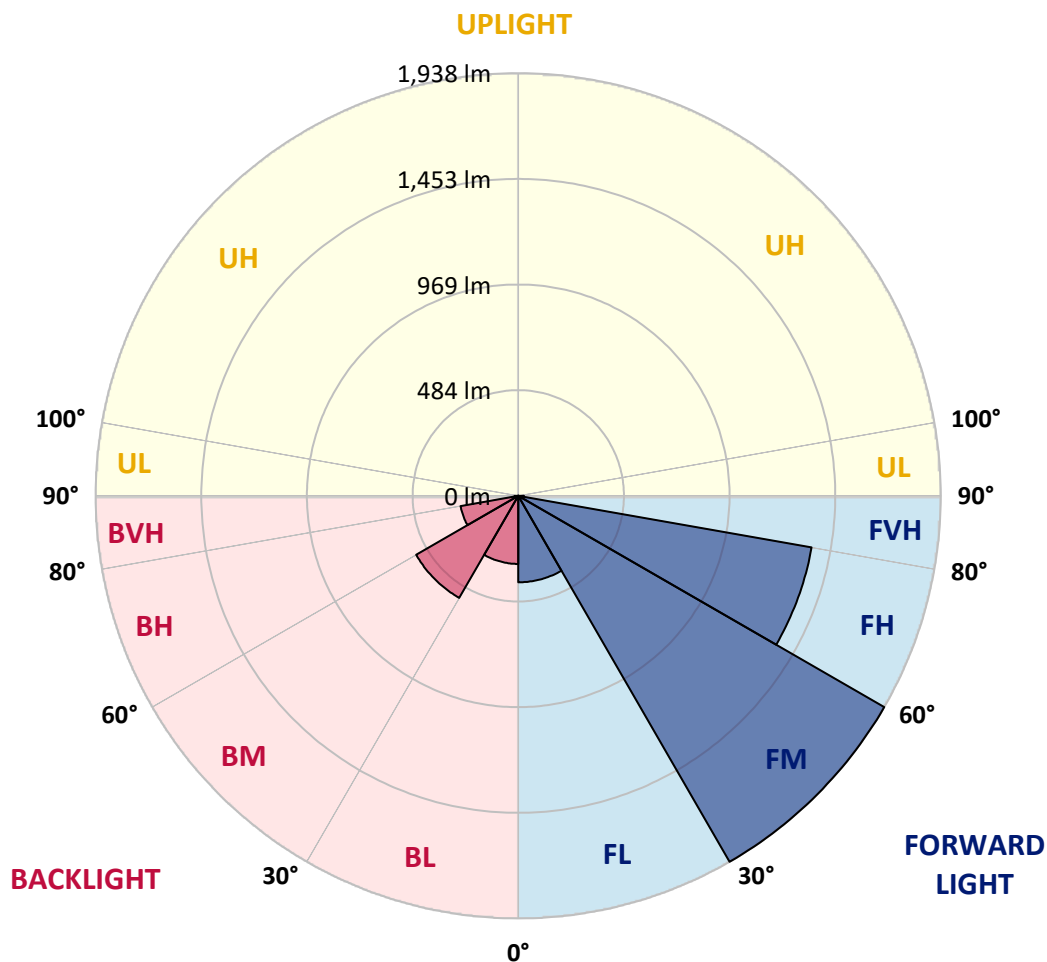


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.4	8.2			
FM (30°-60°)	1937.6	39.8			
FH (60°-80°)	1365.6	28.1			G1/1800
FVH (80°-90°)	26.0	0.5			G1/100
BL (0°-30°)	312.3	6.4	B1/500		
BM (30°-60°)	540.5	11.1	B1/1000		
BH (60°-80°)	268.7	5.5	B1/500		G1/500
BVH (80°-90°)	16.4	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°	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4
2.5°	708.2	708.2	708.2	706.8	706.8	706.8	705.4	704.1	704.1	705.4	705.4
5°	726.1	726.1	724.8	723.4	720.6	717.9	715.1	713.7	713.7	713.7	715.1
7.5°	751.0	749.6	746.9	745.5	741.3	737.2	731.7	726.1	726.1	723.4	726.1
10°	781.4	781.4	777.2	774.5	768.9	757.9	749.6	741.3	740.0	737.2	741.3
12.5°	820.0	820.0	817.3	810.4	802.1	788.3	773.1	759.3	757.9	753.8	762.0
15°	867.0	862.8	861.5	855.9	840.7	822.8	802.1	784.1	784.1	777.2	786.9
17.5°	919.4	918.1	916.7	909.8	891.8	865.6	838.0	817.3	813.1	809.0	814.5
20°	983.0	981.6	980.2	969.2	948.4	916.7	883.5	855.9	853.2	849.0	844.9
22.5°	1056.1	1056.1	1050.6	1042.3	1013.3	976.1	936.0	901.5	901.5	897.4	878.0
25°	1126.6	1123.8	1121.0	1111.4	1087.9	1047.9	1000.9	960.9	955.3	955.3	922.2
27.5°	1191.4	1191.4	1195.6	1190.1	1166.6	1125.2	1078.2	1032.7	1029.9	1024.4	973.3
30°	1259.1	1261.9	1263.2	1263.2	1252.2	1220.4	1169.4	1134.8	1140.4	1126.6	1049.2
32.5°	1310.2	1312.9	1330.9	1347.5	1337.8	1319.9	1290.9	1279.8	1285.3	1296.4	1212.2
35°	1358.5	1362.7	1387.5	1422.0	1437.2	1428.9	1433.1	1452.4	1464.8	1509.0	1435.8
37.5°	1394.4	1398.6	1420.6	1463.4	1509.0	1532.5	1571.0	1613.8	1637.3	1693.9	1589.0
40°	1404.1	1411.0	1456.5	1514.5	1583.5	1653.9	1700.8	1756.0	1785.0	1811.3	1692.5
42.5°	1370.9	1377.8	1437.2	1558.7	1655.3	1762.9	1814.0	1890.0	1913.4	1898.3	1772.6
45°	1350.2	1354.4	1415.1	1554.6	1717.4	1867.9	1917.6	1997.7	2011.5	1974.2	1841.7
47.5°	1321.2	1325.4	1390.3	1547.7	1767.1	1959.0	1993.5	2072.2	2090.2	2037.7	1894.1
50°	1278.4	1284.0	1358.5	1535.2	1800.2	2021.1	2058.4	2139.9	2149.6	2094.3	1949.3
52.5°	1227.3	1235.6	1314.3	1509.0	1822.3	2061.2	2109.5	2193.7	2203.4	2167.5	2008.7
55°	1165.2	1173.5	1257.7	1470.4	1815.4	2073.6	2131.6	2262.8	2279.3	2250.3	2059.8
57.5°	1104.5	1110.0	1197.0	1413.7	1776.8	2092.9	2197.9	2374.6	2396.7	2335.9	2101.2
60°	1031.3	1043.7	1127.9	1336.4	1717.4	2112.3	2283.5	2508.5	2529.2	2418.8	2133.0
62.5°	955.3	966.4	1040.9	1239.8	1624.9	2094.3	2348.4	2624.4	2636.8	2485.1	2144.0
65°	867.0	868.4	937.4	1116.9	1492.4	2021.1	2353.9	2681.0	2693.4	2526.5	2124.7
67.5°	749.6	749.6	807.6	960.9	1314.3	1888.6	2304.2	2699.0	2716.9	2554.1	2077.8
70°	586.7	596.4	640.5	777.2	1087.9	1700.8	2240.7	2712.8	2729.3	2514.1	1971.4
72.5°	410.1	407.3	452.9	535.6	786.9	1357.1	1999.1	2509.9	2509.9	2309.7	1776.8
75°	125.6	140.8	161.5	216.8	359.0	909.8	1637.3	2127.5	2155.1	2000.4	1464.8
77.5°	41.4	41.4	48.3	59.4	77.3	193.3	818.7	1303.3	1325.4	1301.9	907.0
80°	33.1	33.1	37.3	42.8	49.7	99.4	288.6	488.8	524.6	578.4	375.6
82.5°	23.5	23.5	24.9	26.2	24.9	40.0	75.9	129.8	132.5	143.6	121.5
85°	15.2	13.8	13.8	12.4	11.0	11.0	9.7	9.7	11.0	11.0	13.8
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.1	4.1	4.1	4.1
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°	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4
2.5°	706.8	708.2	712.3	715.1	717.9	720.6	722.0	723.4	723.4	724.8	724.8
5°	716.5	719.2	726.1	733.0	744.1	755.1	764.8	770.3	771.7	777.2	777.2
7.5°	728.9	733.0	749.6	762.0	778.6	791.0	802.1	807.6	813.1	815.9	815.9
10°	748.2	753.8	770.3	784.1	797.9	807.6	814.5	818.7	820.0	821.4	821.4
12.5°	767.6	774.5	784.1	795.2	803.5	809.0	813.1	814.5	814.5	814.5	814.5
15°	788.3	791.0	793.8	796.6	800.7	802.1	802.1	800.7	797.9	796.6	796.6
17.5°	809.0	806.2	802.1	796.6	791.0	786.9	781.4	775.8	771.7	768.9	770.3
20°	833.8	825.6	807.6	793.8	778.6	763.4	751.0	740.0	731.7	730.3	731.7
22.5°	862.8	846.3	817.3	788.3	762.0	734.4	708.2	693.0	684.7	677.8	677.8
25°	897.4	871.1	825.6	780.0	738.6	694.4	658.5	635.0	621.2	612.9	615.7
27.5°	937.4	904.3	833.8	767.6	704.1	646.1	599.1	561.8	546.7	535.6	537.0
30°	995.4	942.9	843.5	749.6	659.9	586.7	524.6	480.5	454.3	446.0	448.7
32.5°	1125.2	1025.8	854.6	723.4	610.2	516.4	433.5	379.7	352.1	352.1	350.7
35°	1341.9	1198.3	880.8	691.6	554.9	437.7	331.4	281.7	280.3	285.8	287.2
37.5°	1493.8	1357.1	962.2	661.2	494.3	342.4	245.8	232.0	245.8	251.3	249.9
40°	1591.7	1452.4	1056.1	629.5	408.7	245.8	194.7	185.0	198.8	209.9	218.2
42.5°	1671.8	1518.7	1098.9	588.1	305.1	176.7	143.6	140.8	161.5	176.7	182.3
45°	1735.3	1579.3	1104.5	530.1	207.1	131.2	117.4	129.8	154.6	167.1	168.4
47.5°	1786.4	1629.0	1089.3	437.7	138.1	114.6	114.6	131.2	154.6	167.1	167.1
50°	1836.1	1670.4	1050.6	356.2	124.3	111.8	116.0	132.5	153.3	162.9	162.9
52.5°	1877.5	1698.1	983.0	284.4	120.1	109.1	116.0	132.5	150.5	154.6	151.9
55°	1914.8	1709.1	922.2	229.2	116.0	107.7	118.7	135.3	149.1	149.1	143.6
57.5°	1935.5	1682.9	876.6	189.2	111.8	107.7	120.1	138.1	153.3	156.0	151.9
60°	1935.5	1645.6	826.9	167.1	109.1	107.7	120.1	147.7	182.3	168.4	167.1
62.5°	1909.3	1605.5	752.4	149.1	104.9	109.1	121.5	164.3	222.3	167.1	160.2
65°	1863.7	1528.3	654.3	132.5	100.8	110.5	120.1	189.2	265.1	161.5	142.2
67.5°	1778.1	1405.5	532.8	116.0	95.3	107.7	117.4	174.0	162.9	133.9	120.1
70°	1630.4	1221.8	370.0	100.8	91.1	104.9	117.4	153.3	145.0	122.9	107.7
72.5°	1411.0	1002.3	198.8	82.8	80.1	99.4	114.6	140.8	124.3	100.8	91.1
75°	1083.8	712.3	121.5	64.9	66.3	88.4	106.3	133.9	118.7	96.7	84.2
77.5°	625.4	330.0	87.0	48.3	46.9	70.4	95.3	124.3	116.0	93.9	81.5
80°	229.2	136.7	59.4	35.9	31.8	51.1	74.6	100.8	110.5	92.5	82.8
82.5°	98.0	73.2	38.7	24.9	23.5	29.0	45.6	70.4	92.5	74.6	69.0
85°	13.8	13.8	13.8	12.4	13.8	17.9	19.3	34.5	51.1	27.6	27.6
87.5°	5.5	5.5	5.5	5.5	6.9	6.9	5.5	5.5	4.1	4.1	4.1
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)