

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: P507573

Luminaire Tested: **VERD-S-CA1-50-722-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507573  
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-CA1-50-722-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 940mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5989 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

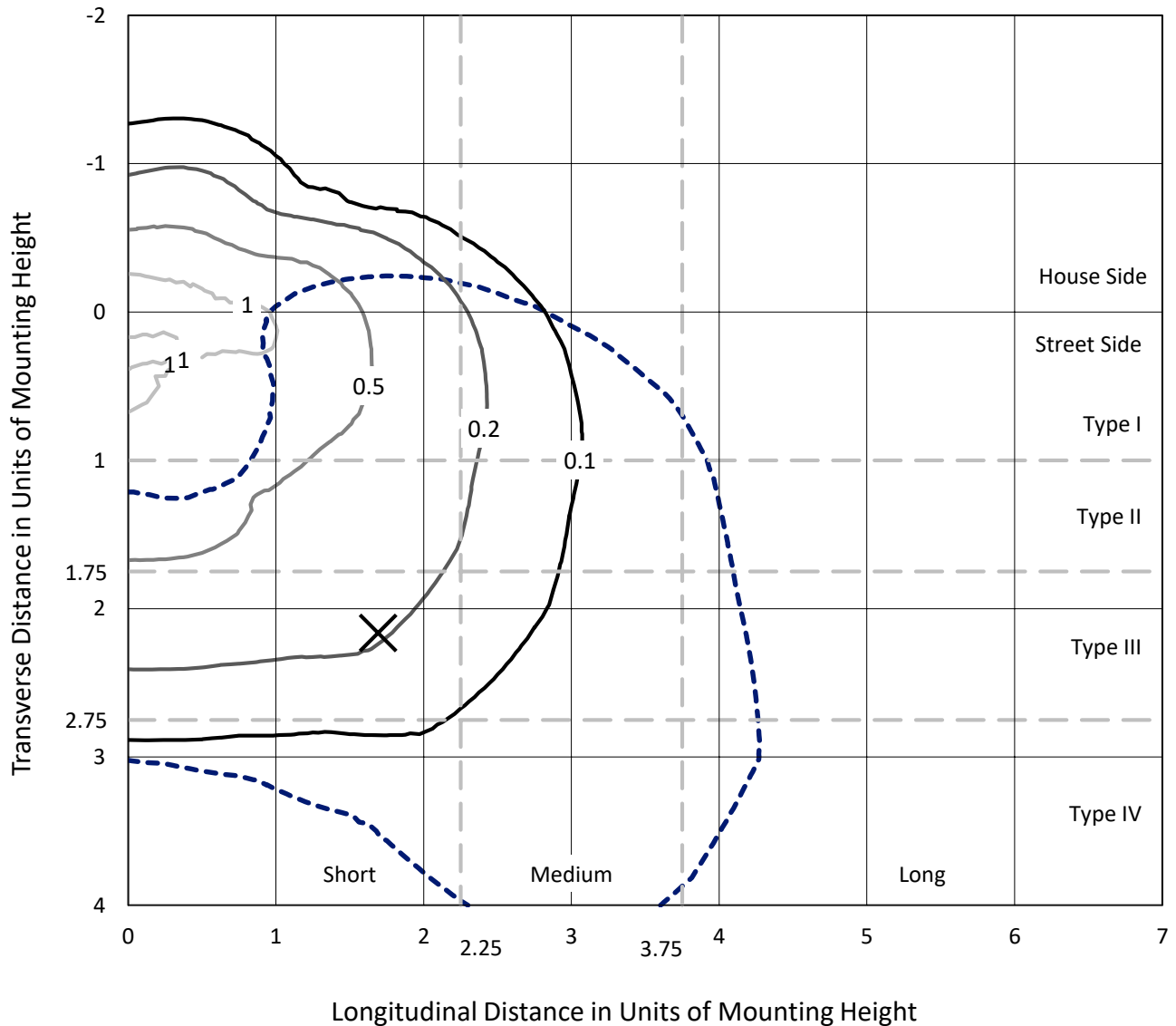
Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

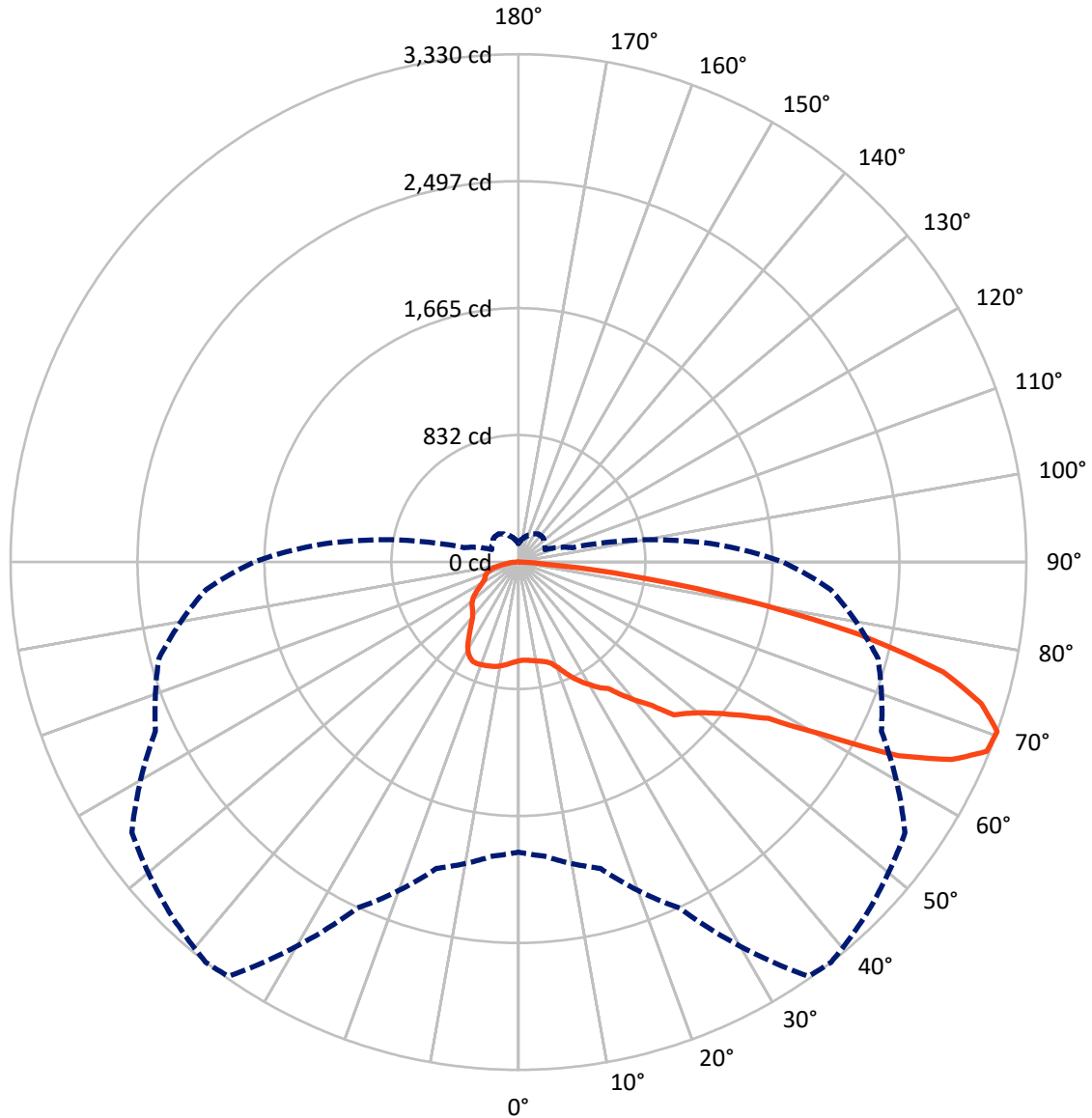
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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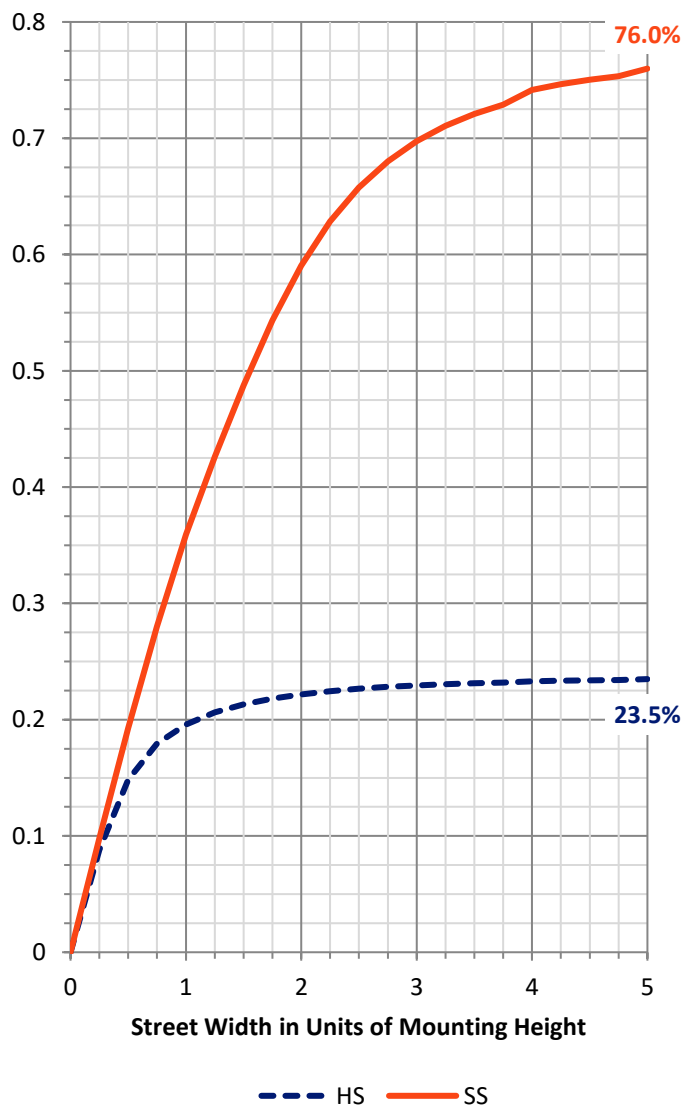
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1422.4	0.0	1422.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	4566.6	0.0	4566.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	5989.0	0.0	5989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.1	1.1
10°-20°	198.8	3.3
20°-30°	368.9	6.2
30°-40°	571.2	9.5
40°-50°	846.4	14.1
50°-60°	1179.3	19.7
60°-70°	1514.5	25.3
70°-80°	1108.0	18.5
80°-90°	138.8	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°	5989.0	100.0
0°-180°	5989.0	100.0

**Coefficient of Utilization**



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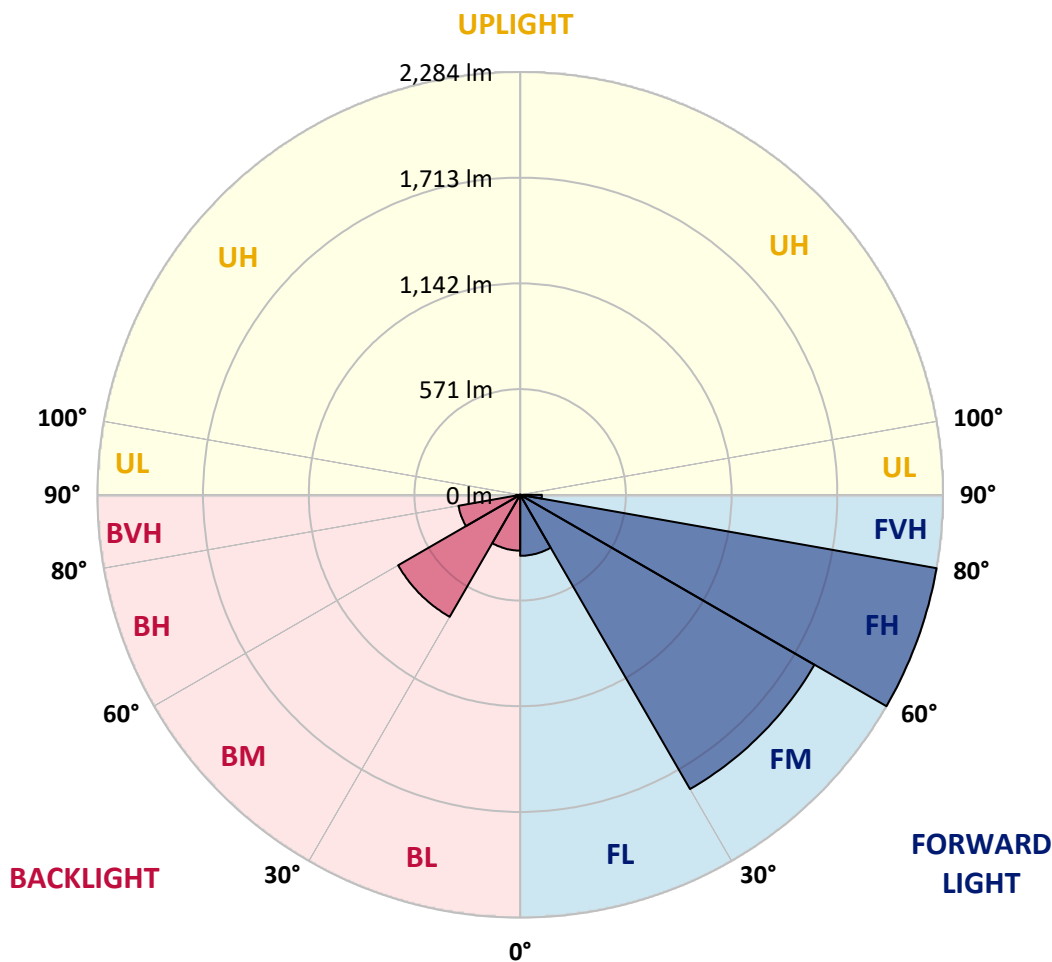
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.5	5.5			
FM	(30°-60°)	1835.5	30.6			
FH	(60°-80°)	2284.3	38.1			G2/5000
FVH	(80°-90°)	117.3	2.0			G2/225
BL	(0°-30°)	301.3	5.0	B1/500		
BM	(30°-60°)	761.4	12.7	B1/1000		
BH	(60°-80°)	338.2	5.6	B1/500		G1/500
BVH	(80°-90°)	21.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1
2.5°	645.4	645.4	645.4	643.7	643.7	643.7	642.0	642.0	643.7	645.4	645.4
5°	650.5	650.5	648.8	648.8	647.1	647.1	647.1	645.4	645.4	645.4	648.8
7.5°	652.3	652.3	652.3	652.3	652.3	652.3	654.0	652.3	652.3	652.3	655.7
10°	652.3	652.3	654.0	654.0	657.4	659.1	660.8	664.2	664.2	664.2	665.9
12.5°	655.7	655.7	657.4	659.1	664.2	667.6	671.0	676.2	677.9	677.9	679.6
15°	662.5	662.5	664.2	669.3	676.2	677.9	683.0	689.8	696.7	698.4	700.1
17.5°	689.8	689.8	689.8	689.8	696.7	698.4	705.2	715.4	722.3	725.7	730.8
20°	744.5	746.2	742.8	741.0	737.6	737.6	737.6	742.8	751.3	763.2	771.8
22.5°	814.5	814.5	814.5	800.8	792.3	790.6	790.6	788.9	795.7	807.6	819.6
25°	869.1	870.8	869.1	857.2	846.9	843.5	843.5	848.6	848.6	858.9	872.5
27.5°	913.5	916.9	911.8	901.5	893.0	891.3	893.0	908.4	916.9	923.7	940.8
30°	961.3	963.0	951.1	944.2	939.1	935.7	937.4	959.6	988.6	997.2	1026.2
32.5°	1050.1	1050.1	1033.0	993.8	980.1	981.8	981.8	1010.8	1050.1	1089.4	1126.9
35°	1133.8	1132.1	1116.7	1082.5	1031.3	1019.4	1026.2	1056.9	1118.4	1185.0	1251.6
37.5°	1232.8	1229.4	1215.7	1167.9	1125.2	1106.4	1068.9	1109.9	1185.0	1316.5	1384.8
40°	1343.8	1338.7	1307.9	1260.1	1203.8	1195.2	1162.8	1169.6	1268.7	1454.8	1533.3
42.5°	1405.3	1401.8	1381.4	1342.1	1301.1	1284.0	1256.7	1248.2	1381.4	1634.1	1673.3
45°	1463.3	1470.1	1470.1	1451.4	1434.3	1430.9	1412.1	1418.9	1526.5	1780.9	1796.3
47.5°	1499.2	1506.0	1483.8	1480.4	1480.4	1482.1	1500.9	1547.0	1658.0	1919.2	1903.8
50°	1606.7	1601.6	1512.8	1526.5	1541.9	1552.1	1593.1	1666.5	1840.7	2043.9	1997.8
52.5°	1801.4	1755.3	1649.4	1618.7	1627.2	1647.7	1702.4	1798.0	2026.8	2154.8	2079.7
55°	2042.1	2014.8	1919.2	1782.6	1738.2	1772.4	1830.4	1927.7	2170.2	2259.0	2144.6
57.5°	2204.4	2214.6	2226.6	2132.6	1926.0	1934.6	1973.8	2055.8	2313.6	2359.7	2195.8
60°	2368.3	2380.2	2446.8	2422.9	2375.1	2296.6	2153.1	2192.4	2421.2	2426.3	2233.4
62.5°	2498.0	2506.6	2605.6	2660.3	2784.9	2795.1	2571.5	2364.9	2533.9	2479.3	2248.8
65°	2433.2	2448.5	2597.1	2749.0	3092.2	3121.3	3047.9	2586.8	2621.0	2499.8	2236.8
67.5°	2214.6	2236.8	2393.9	2716.6	3288.6	3310.8	3239.1	3005.2	2651.7	2491.2	2178.7
70°	1902.1	1934.6	2079.7	2503.2	3315.9	3329.6	3240.8	3094.0	2626.1	2440.0	2054.1
72.5°	1547.0	1572.6	1719.4	2146.3	3150.3	3172.5	3145.2	3020.5	2571.5	2341.0	1803.1
75°	1185.0	1186.7	1342.1	1681.9	2788.3	2877.1	2923.2	2878.8	2422.9	2059.2	1388.2
77.5°	747.9	770.1	928.9	1273.8	2190.7	2281.2	2301.7	2247.0	1695.5	1263.5	597.6
80°	336.4	370.5	532.7	860.6	1490.6	1487.2	1499.2	1364.3	903.3	401.3	66.6
82.5°	121.2	128.1	223.7	432.0	722.3	741.0	732.5	630.1	244.2	56.3	41.0
85°	51.2	54.6	73.4	116.1	163.9	174.2	150.3	114.4	39.3	32.4	27.3
87.5°	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1	6.8	8.5
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°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1
2.5°	645.4	647.1	648.8	652.3	652.3	654.0	655.7	657.4	657.4	657.4	657.4
5°	650.5	652.3	654.0	659.1	662.5	664.2	667.6	669.3	671.0	671.0	671.0
7.5°	657.4	659.1	662.5	667.6	672.7	676.2	679.6	681.3	683.0	683.0	683.0
10°	667.6	671.0	676.2	683.0	688.1	688.1	689.8	691.5	693.2	693.2	693.2
12.5°	681.3	684.7	693.2	701.8	703.5	701.8	698.4	698.4	696.7	694.9	694.9
15°	703.5	705.2	717.1	724.0	718.8	710.3	703.5	696.7	691.5	688.1	688.1
17.5°	734.2	739.3	751.3	751.3	737.6	722.3	705.2	688.1	674.5	669.3	667.6
20°	778.6	785.4	795.7	785.4	763.2	735.9	705.2	677.9	650.5	633.5	628.4
22.5°	828.1	836.7	840.1	817.9	785.4	747.9	706.9	664.2	619.8	582.3	572.0
25°	886.2	891.3	879.4	843.5	799.1	751.3	701.8	645.4	577.1	527.6	522.5
27.5°	954.5	949.4	916.9	862.3	802.5	744.5	683.0	607.9	522.5	484.9	479.8
30°	1027.9	1009.1	949.4	872.5	792.3	724.0	650.5	551.5	481.5	450.8	447.4
32.5°	1115.0	1077.4	980.1	874.2	773.5	688.1	597.6	505.4	454.2	420.0	416.6
35°	1212.3	1154.3	1007.4	864.0	735.9	638.6	534.4	471.3	425.2	392.7	385.9
37.5°	1343.8	1258.4	1041.6	841.8	688.1	575.4	488.3	435.4	396.1	360.3	355.2
40°	1478.7	1377.9	1089.4	816.2	635.2	524.2	449.1	409.8	375.6	334.7	326.1
42.5°	1613.6	1497.5	1154.3	785.4	582.3	484.9	432.0	406.4	365.4	322.7	314.2
45°	1724.6	1599.9	1215.7	749.6	529.3	449.1	421.7	399.6	358.6	312.5	302.2
47.5°	1820.2	1685.3	1268.7	717.1	478.1	421.7	413.2	387.6	348.3	302.2	292.0
50°	1900.4	1753.6	1311.3	689.8	435.4	403.0	396.1	365.4	324.4	285.1	278.3
52.5°	1970.4	1803.1	1330.1	681.3	392.7	380.8	368.8	338.1	300.5	264.7	254.4
55°	2016.5	1840.7	1326.7	681.3	351.7	350.0	336.4	312.5	285.1	256.1	245.9
57.5°	2052.4	1857.7	1301.1	582.3	317.6	310.8	302.2	292.0	274.9	242.5	232.2
60°	2069.5	1847.5	1246.5	423.5	283.4	271.5	278.3	274.9	257.8	213.4	206.6
62.5°	2059.2	1816.8	1123.5	309.1	247.6	245.9	256.1	249.3	216.8	177.6	174.2
65°	2019.9	1739.9	966.4	232.2	227.1	239.0	244.2	230.5	199.8	163.9	150.3
67.5°	1919.2	1591.4	703.5	208.3	220.3	233.9	237.3	218.6	187.8	153.7	136.6
70°	1733.1	1311.3	365.4	192.9	210.0	227.1	225.4	201.5	170.7	140.0	119.5
72.5°	1405.3	930.6	138.3	172.5	194.7	211.7	208.3	181.0	121.2	87.1	78.5
75°	911.8	445.7	119.5	148.6	174.2	189.5	191.2	163.9	105.9	73.4	63.2
77.5°	312.5	82.0	97.3	122.9	150.3	170.7	165.6	131.5	82.0	54.6	49.5
80°	52.9	54.6	75.1	87.1	104.2	136.6	116.1	93.9	64.9	39.3	32.4
82.5°	37.6	46.1	52.9	51.2	71.7	90.5	78.5	63.2	42.7	30.7	27.3
85°	27.3	30.7	29.0	30.7	41.0	59.8	54.6	44.4	30.7	22.2	18.8
87.5°	10.2	10.2	13.7	17.1	25.6	37.6	32.4	13.7	12.0	10.2	10.2
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)