

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: P507449

Luminaire Tested: **VERD-S-CA1-20-740-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-20-740-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 430mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3549 lumens  
Efficiency: N/A  
Efficacy: 151.7 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

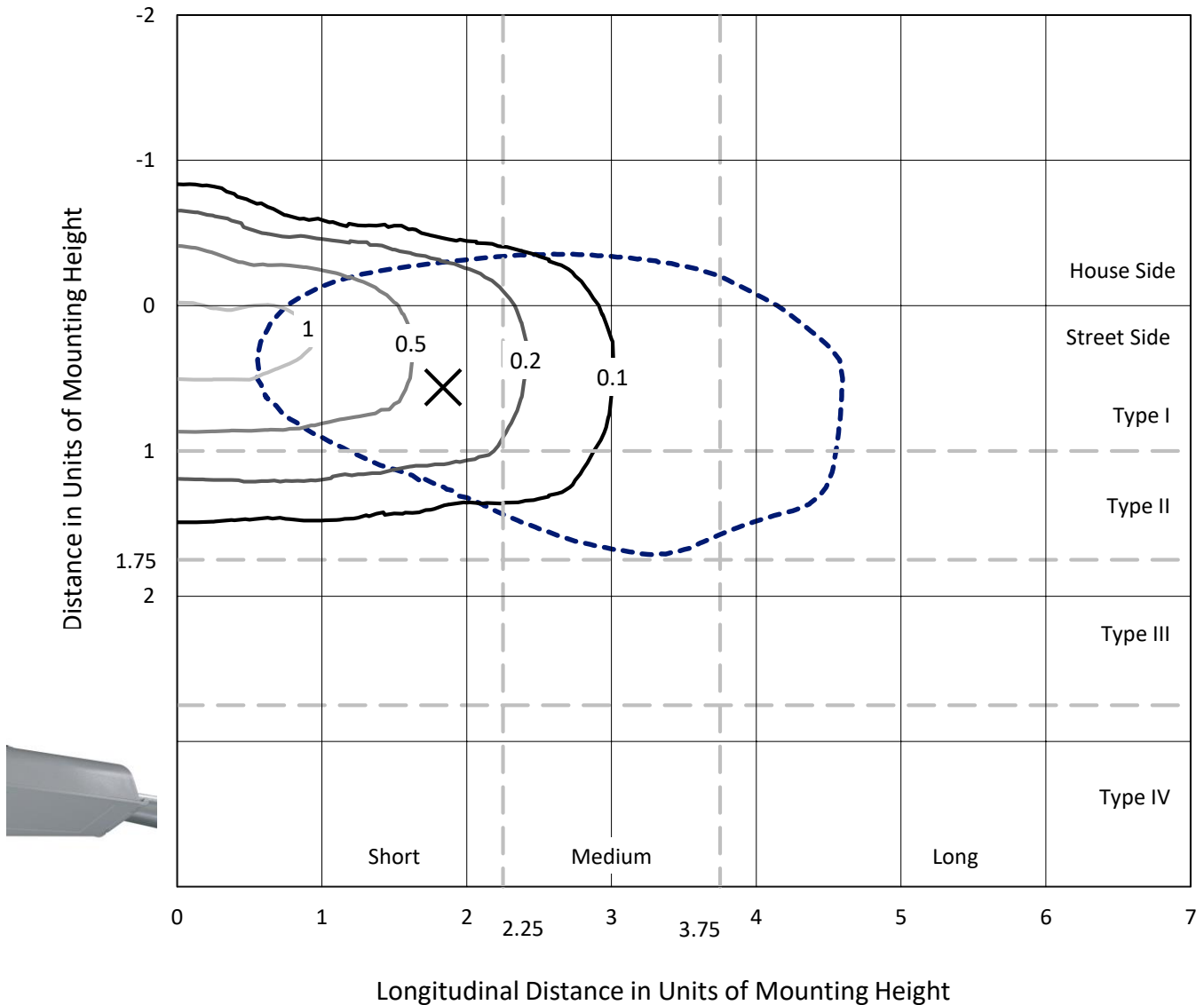


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### Iso-Footcandle Lines of Horizontal Illumination

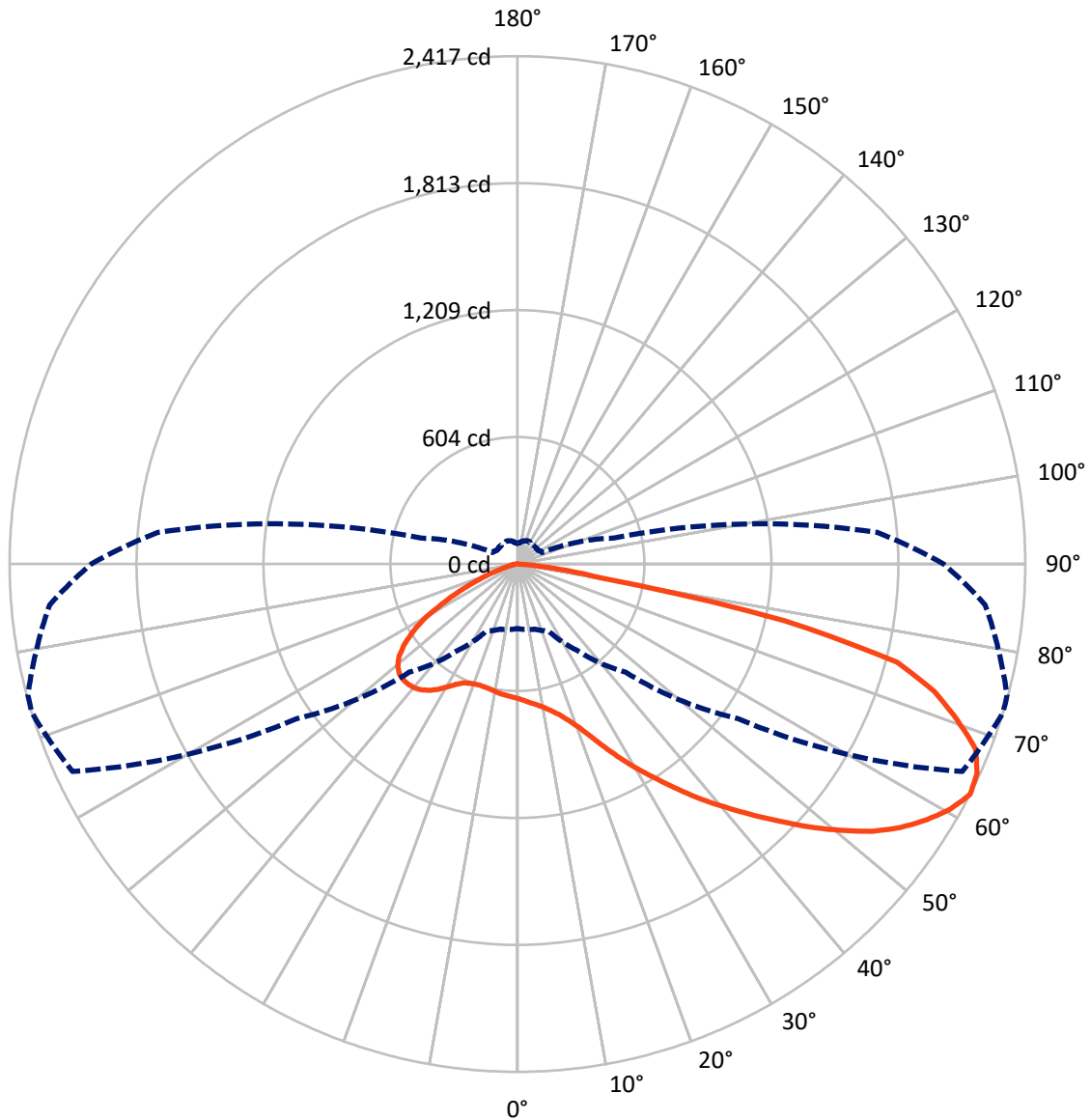
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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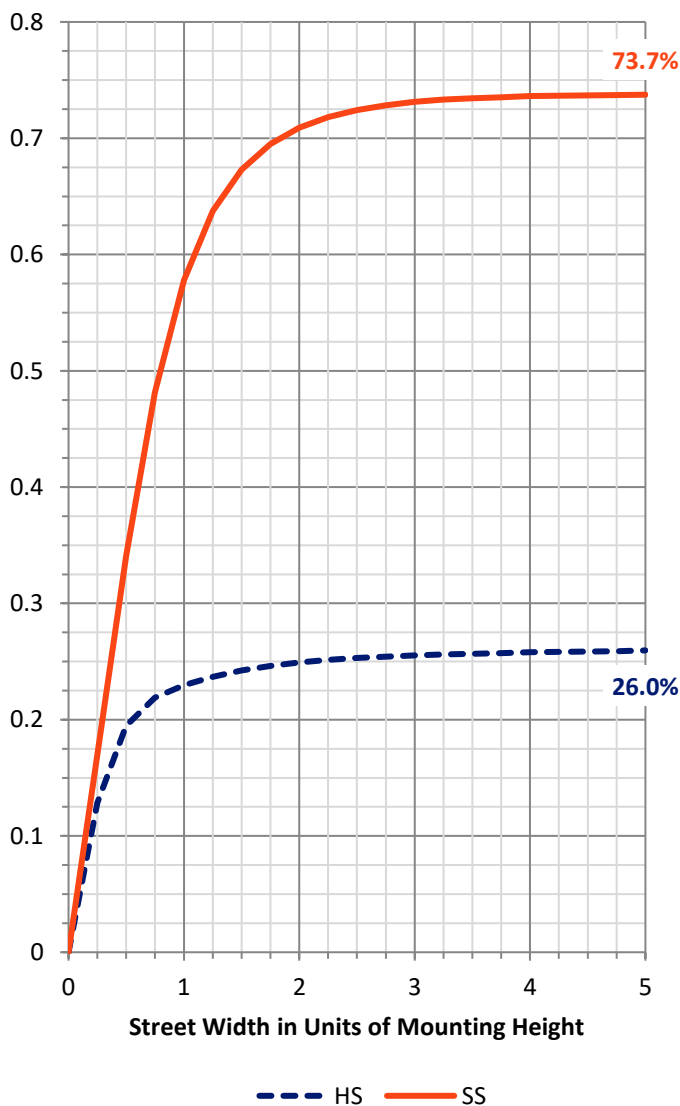
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	934.8	0.0	934.8
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	2614.1	0.0	2614.1
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	3549.0	0.0	3549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	1.7
10°-20°	189.4	5.3
20°-30°	327.8	9.2
30°-40°	474.7	13.4
40°-50°	608.0	17.1
50°-60°	704.0	19.8
60°-70°	708.9	20.0
70°-80°	433.4	12.2
80°-90°	40.8	1.1
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°	3549.0	100.0
0°-180°	3549.0	100.0

**Coefficient of Utilization**



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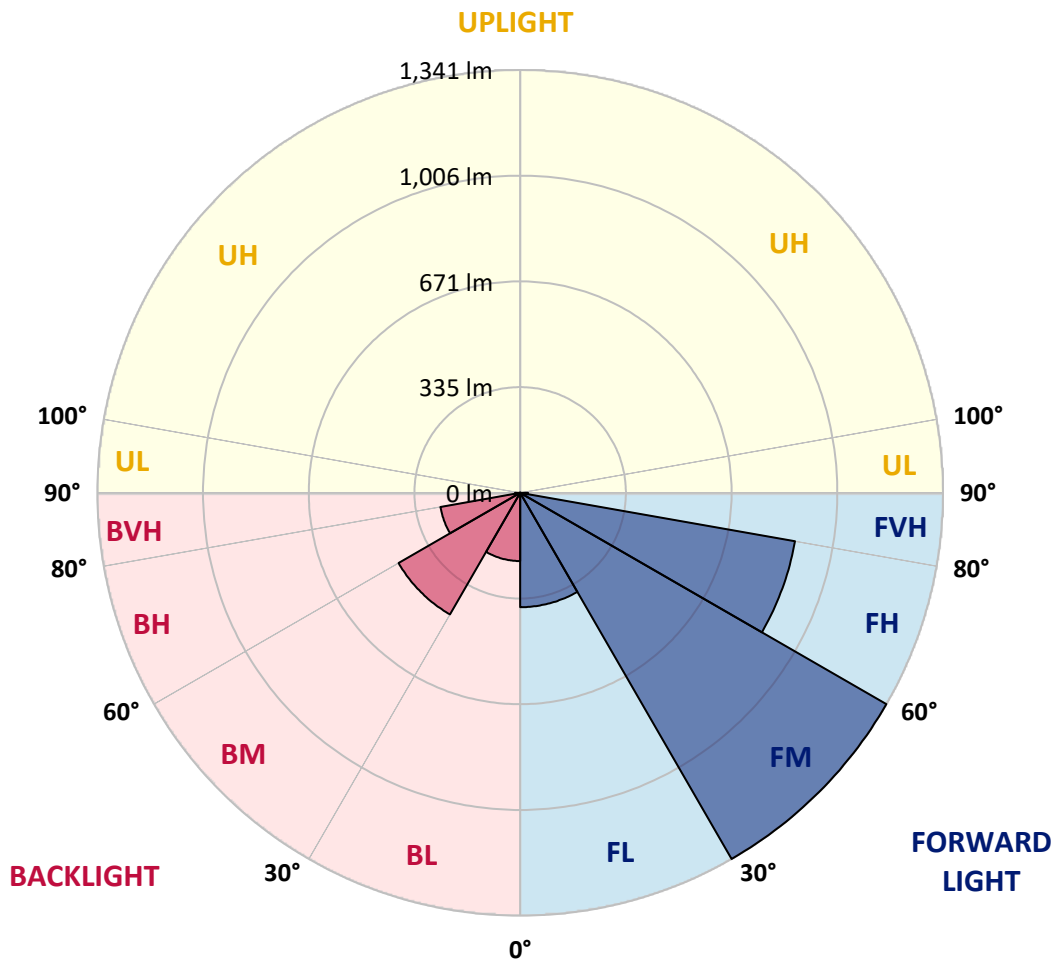
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.7	10.2			
FM (30°-60°)	1341.4	37.8			
FH (60°-80°)	885.3	24.9			G1/1800
FVH (80°-90°)	24.7	0.7			G1/100
BL (0°-30°)	216.4	6.1	B1/500		
BM (30°-60°)	445.3	12.5	B1/1000		
BH (60°-80°)	257.0	7.2	B1/500		G1/500
BVH (80°-90°)	16.2	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1
2.5°	674.1	673.1	671.1	670.1	668.1	663.1	660.1	655.1	651.1	650.1	644.1
5°	707.1	708.1	707.1	704.1	700.1	693.1	683.1	670.1	664.1	662.1	652.1
7.5°	738.1	738.1	737.1	733.1	729.1	720.1	706.1	691.1	677.1	673.1	660.1
10°	768.1	768.1	765.1	761.1	755.1	744.1	730.1	711.1	694.1	688.1	666.1
12.5°	800.1	799.1	795.1	789.1	781.1	772.1	757.1	736.1	717.1	710.1	679.1
15°	825.1	825.1	822.1	818.1	811.1	800.1	786.1	768.1	743.1	737.1	697.1
17.5°	847.1	848.1	846.1	846.1	840.1	832.1	820.1	805.1	781.1	772.1	724.1
20°	865.1	864.1	868.1	871.1	873.1	868.1	861.1	851.1	827.1	818.1	759.1
22.5°	873.1	875.1	887.1	902.1	911.1	912.1	911.1	910.1	889.1	877.1	807.1
25°	877.1	880.1	898.1	924.1	944.1	959.1	975.1	985.1	966.1	957.1	879.1
27.5°	881.1	884.1	905.1	937.1	975.1	1011.1	1043.1	1062.1	1048.1	1037.1	953.1
30°	874.1	877.1	901.1	946.1	1000.1	1063.1	1108.1	1135.1	1133.1	1126.1	1038.1
32.5°	859.1	862.1	889.1	945.1	1026.1	1116.1	1166.1	1211.1	1220.1	1213.1	1123.1
35°	832.1	836.1	867.1	933.1	1038.1	1160.1	1227.1	1293.1	1316.1	1317.1	1216.1
37.5°	795.1	797.1	835.1	910.1	1042.1	1191.1	1278.1	1372.1	1419.1	1420.1	1311.1
40°	745.1	750.1	797.1	881.1	1033.1	1213.1	1329.1	1458.1	1520.1	1513.1	1414.1
42.5°	688.1	692.1	738.1	835.1	1012.1	1226.1	1376.1	1548.1	1630.1	1626.1	1511.1
45°	637.1	643.1	678.1	771.1	972.1	1229.1	1417.1	1638.1	1744.1	1739.1	1610.1
47.5°	569.0	584.0	631.1	714.1	912.1	1216.1	1454.1	1760.1	1870.2	1863.1	1714.1
50°	438.0	443.0	542.0	666.1	844.1	1184.1	1486.1	1873.2	1992.2	1987.2	1823.1
52.5°	395.0	399.0	431.0	611.0	776.1	1127.1	1505.1	2018.2	2114.2	2100.2	1921.2
55°	371.0	375.0	393.0	488.0	717.1	1041.1	1509.1	2141.2	2213.2	2200.2	2013.2
57.5°	349.0	352.0	369.0	418.0	649.1	922.1	1488.1	2240.2	2297.2	2284.2	2096.2
60°	326.0	329.0	347.0	380.0	565.0	813.1	1419.1	2317.2	2368.2	2355.2	2171.2
62.5°	307.0	312.0	321.0	352.0	505.0	728.1	1284.1	2336.2	2417.2	2412.2	2235.2
65°	284.0	286.0	300.0	325.0	446.0	669.1	1139.1	2281.2	2404.2	2413.2	2273.2
67.5°	258.0	259.0	272.0	290.0	373.0	611.0	1010.1	2207.2	2352.2	2367.2	2245.2
70°	223.0	224.0	236.0	255.0	309.0	530.0	877.1	2098.2	2219.2	2233.2	2137.2
72.5°	186.0	186.0	196.0	217.0	255.0	439.0	702.1	1859.1	2076.2	2099.2	1961.2
75°	81.0	84.0	101.0	121.0	165.0	323.0	479.0	1439.1	1866.1	1882.2	1719.1
77.5°	22.0	22.0	26.0	34.0	48.0	144.0	152.0	633.1	1300.1	1341.1	1271.1
80°	18.0	18.0	20.0	26.0	33.0	71.0	51.0	204.0	402.0	530.0	659.1
82.5°	10.0	10.0	12.0	15.0	18.0	18.0	18.0	104.0	198.0	211.0	276.0
85°	5.0	6.0	6.0	7.0	7.0	6.0	6.0	21.0	38.0	43.0	66.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	2.0	3.0	3.0	4.0	5.0
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°	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1
2.5°	642.1	639.1	635.1	632.1	626.1	620.0	616.0	613.0	612.0	611.0	611.0
5°	646.1	641.1	630.1	619.0	610.0	602.0	595.0	590.0	588.0	587.0	587.0
7.5°	652.1	645.1	627.1	611.0	595.0	583.0	572.0	565.0	561.0	562.0	565.0
10°	655.1	644.1	620.0	604.0	583.0	564.0	551.0	543.0	540.0	540.0	539.0
12.5°	663.1	647.1	615.0	590.0	572.0	546.0	531.0	524.0	520.0	514.0	512.0
15°	675.1	655.1	613.0	580.0	552.0	529.0	509.0	499.0	496.0	488.0	488.0
17.5°	697.1	669.1	613.0	569.0	533.0	511.0	485.0	471.0	469.0	464.0	463.0
20°	723.1	688.1	618.0	558.0	513.0	484.0	455.0	441.0	436.0	431.0	431.0
22.5°	764.1	717.1	627.1	550.0	492.0	456.0	424.0	404.0	396.0	395.0	393.0
25°	827.1	763.1	641.1	542.0	471.0	425.0	393.0	367.0	354.0	352.0	351.0
27.5°	896.1	826.1	669.1	535.0	448.0	390.0	352.0	324.0	308.0	306.0	305.0
30°	970.1	891.1	706.1	529.0	419.0	350.0	307.0	280.0	265.0	261.0	262.0
32.5°	1051.1	961.1	746.1	524.0	388.0	298.0	258.0	240.0	224.0	217.0	218.0
35°	1130.1	1023.1	781.1	520.0	347.0	251.0	220.0	201.0	185.0	176.0	176.0
37.5°	1219.1	1096.1	810.1	512.0	303.0	219.0	189.0	170.0	158.0	150.0	150.0
40°	1306.1	1169.1	833.1	497.0	254.0	193.0	156.0	145.0	137.0	132.0	130.0
42.5°	1391.1	1242.1	848.1	472.0	213.0	162.0	130.0	129.0	130.0	125.0	124.0
45°	1479.1	1314.1	859.1	432.0	184.0	134.0	116.0	123.0	130.0	128.0	128.0
47.5°	1575.1	1384.1	868.1	367.0	156.0	118.0	115.0	122.0	131.0	132.0	132.0
50°	1667.1	1455.1	865.1	284.0	137.0	117.0	116.0	118.0	130.0	133.0	131.0
52.5°	1753.1	1516.1	841.1	207.0	128.0	119.0	119.0	117.0	127.0	129.0	130.0
55°	1840.1	1573.1	787.1	164.0	123.0	119.0	124.0	119.0	122.0	123.0	125.0
57.5°	1919.2	1631.1	707.1	147.0	122.0	119.0	124.0	121.0	121.0	117.0	116.0
60°	1980.2	1679.1	610.0	140.0	119.0	120.0	122.0	122.0	119.0	110.0	107.0
62.5°	2028.2	1719.1	477.0	131.0	117.0	118.0	117.0	121.0	114.0	101.0	98.0
65°	2055.2	1726.1	365.0	121.0	112.0	116.0	113.0	112.0	106.0	92.0	86.0
67.5°	2025.2	1677.1	255.0	111.0	106.0	113.0	108.0	104.0	97.0	84.0	76.0
70°	1909.2	1535.1	168.0	98.0	98.0	106.0	102.0	96.0	87.0	77.0	68.0
72.5°	1691.1	1323.1	101.0	81.0	87.0	97.0	95.0	87.0	61.0	47.0	41.0
75°	1430.1	1087.1	65.0	61.0	71.0	87.0	88.0	78.0	52.0	42.0	42.0
77.5°	1039.1	714.1	38.0	34.0	47.0	70.0	75.0	57.0	56.0	78.0	57.0
80°	533.0	346.0	29.0	21.0	25.0	52.0	42.0	43.0	85.0	63.0	40.0
82.5°	231.0	137.0	18.0	15.0	16.0	26.0	27.0	71.0	66.0	37.0	25.0
85°	49.0	26.0	10.0	10.0	10.0	12.0	15.0	77.0	41.0	19.0	8.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	3.0	3.0
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)