

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: P507483

Luminaire Tested: **VERD-S-CA1-30-727-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507483  
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-CA1-30-727-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 590mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4044.4 lumens  
Efficiency: N/A  
Efficacy: 119.0 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

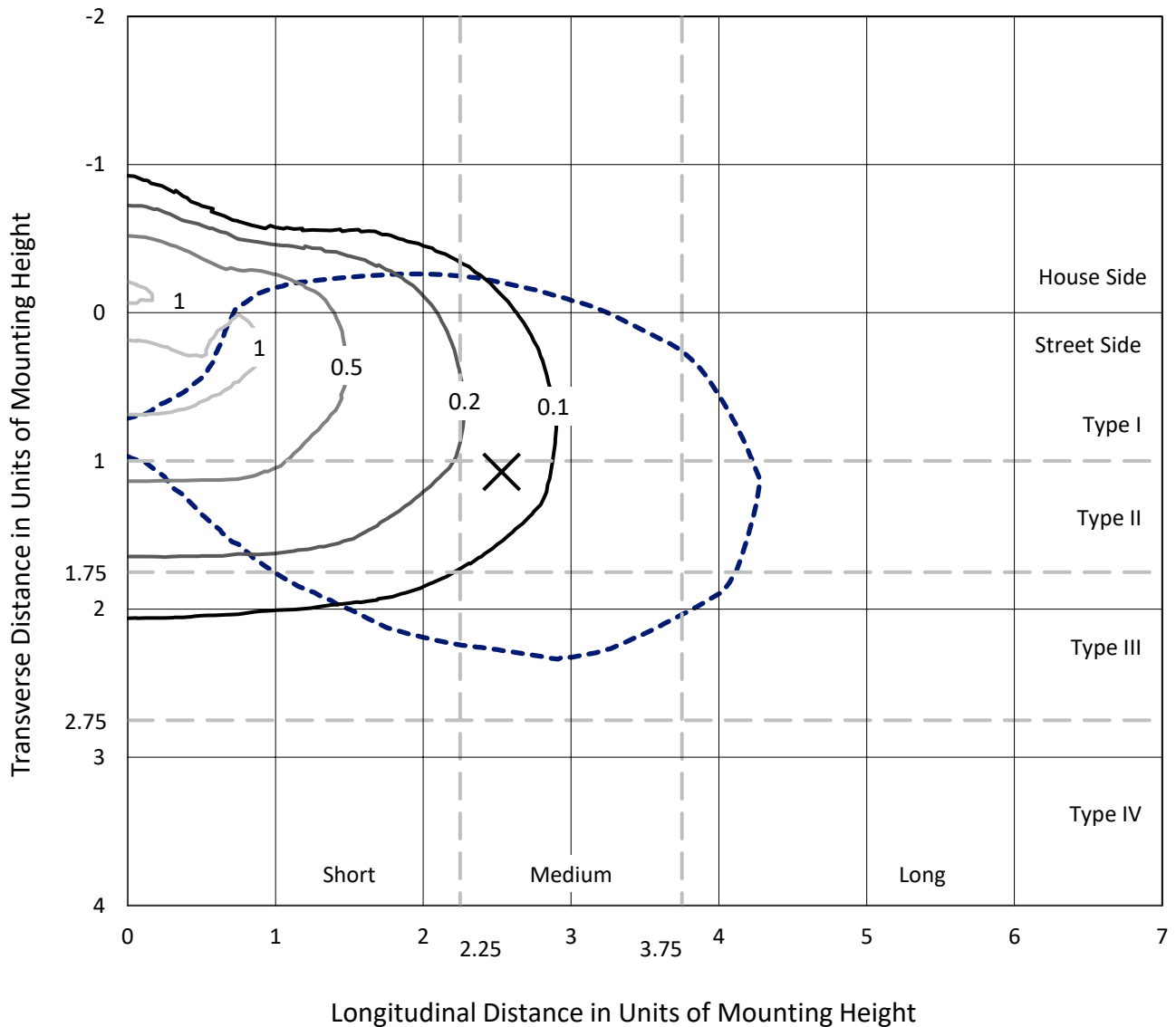
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

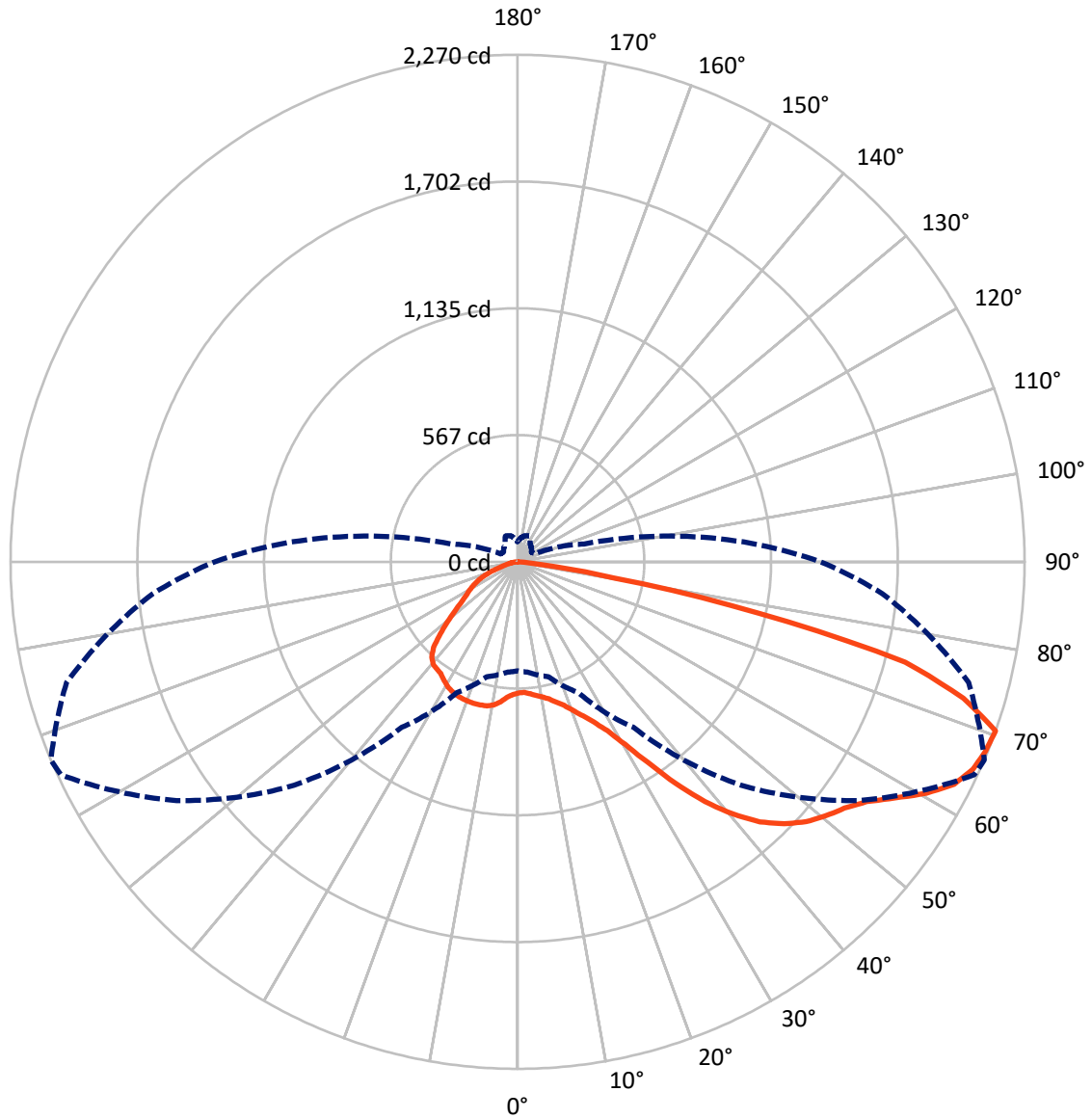
✕ Max cd  
 - - - 1/2 Max cd



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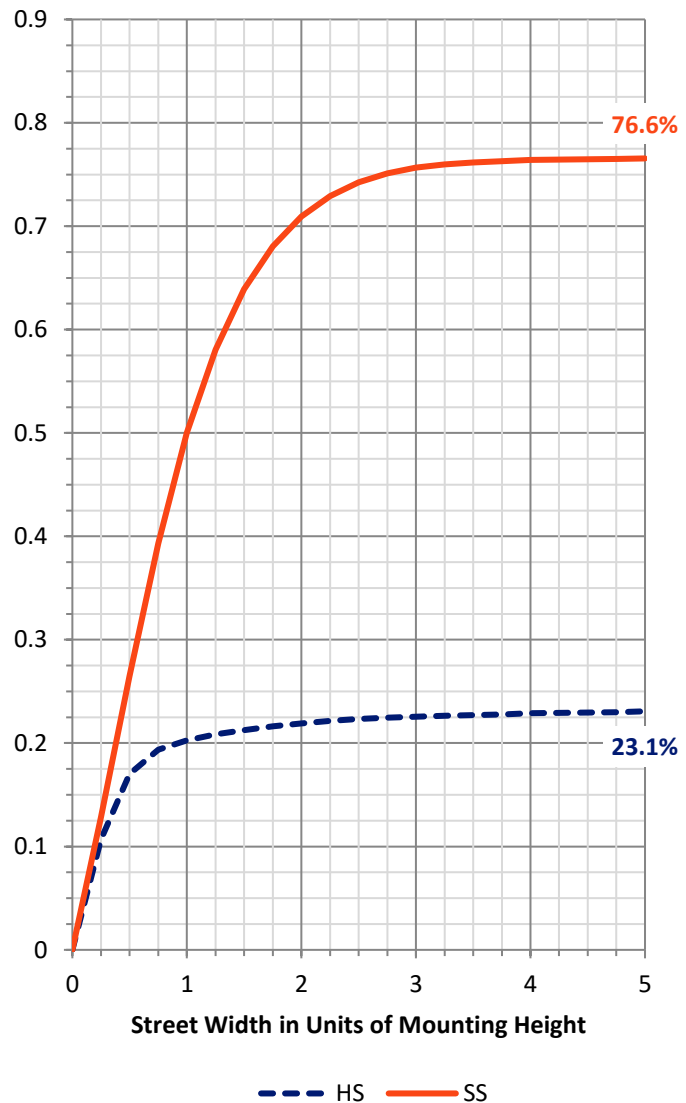
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	946.3	0.0	946.3
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	3098.1	0.0	3098.1
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	4044.4	0.0	4044.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	1.5
10°-20°	191.7	4.7
20°-30°	338.1	8.4
30°-40°	518.3	12.8
40°-50°	706.4	17.5
50°-60°	836.0	20.7
60°-70°	871.5	21.5
70°-80°	487.5	12.1
80°-90°	35.3	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°	4044.4	100.0
0°-180°	4044.4	100.0

**Coefficient of Utilization**

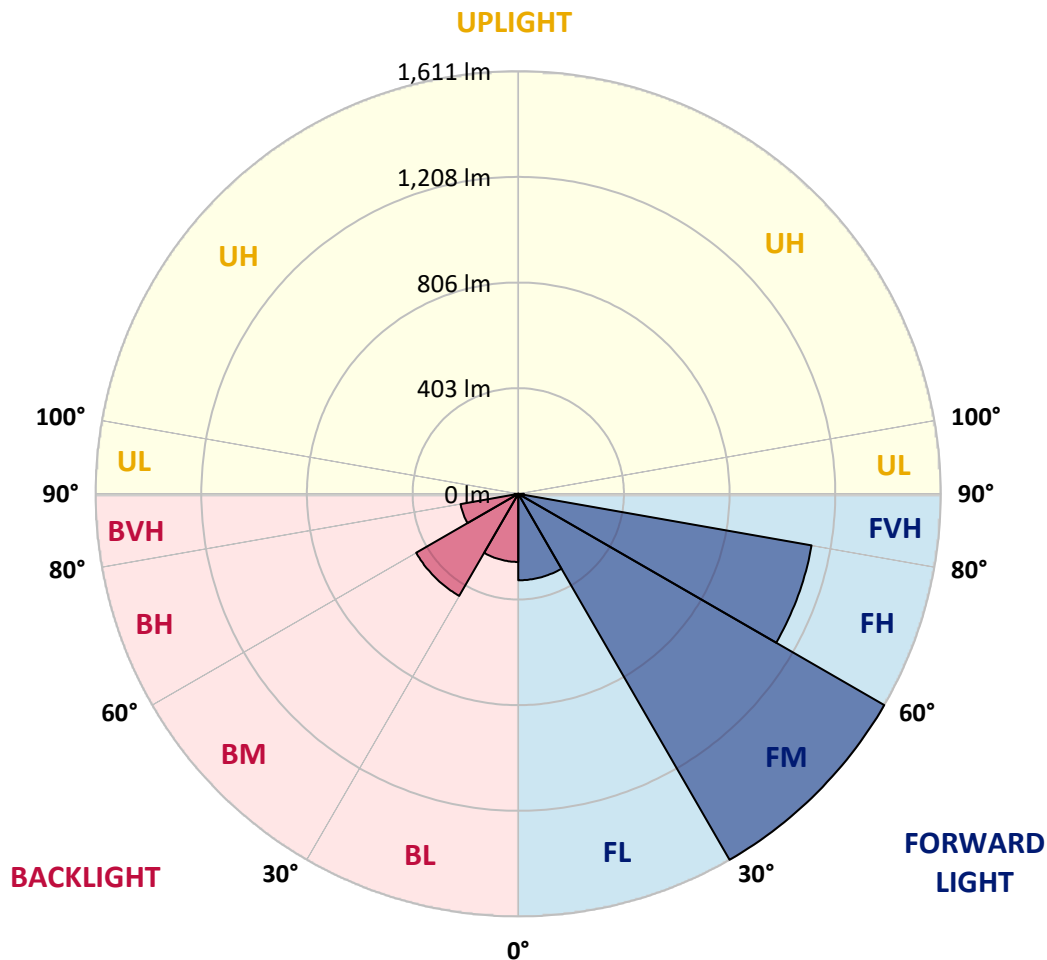


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.6	8.2			
FM (30°-60°)	1611.3	39.8			
FH (60°-80°)	1135.6	28.1			G1/1800
FVH (80°-90°)	21.6	0.5			G1/100
BL (0°-30°)	259.7	6.4	B1/500		
BM (30°-60°)	449.4	11.1	B1/1000		
BH (60°-80°)	223.4	5.5	B1/500		G1/500
BVH (80°-90°)	13.7	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°	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7
2.5°	589.0	589.0	589.0	587.8	587.8	587.8	586.7	585.5	585.5	586.7	586.7
5°	603.8	603.8	602.7	601.5	599.2	596.9	594.6	593.5	593.5	593.5	594.6
7.5°	624.5	623.4	621.1	619.9	616.5	613.0	608.4	603.8	603.8	601.5	603.8
10°	649.7	649.7	646.3	644.0	639.5	630.3	623.4	616.5	615.3	613.0	616.5
12.5°	682.0	682.0	679.7	673.9	667.0	655.5	642.8	631.4	630.3	626.8	633.8
15°	721.0	717.5	716.4	711.8	699.1	684.3	667.0	652.0	652.0	646.3	654.3
17.5°	764.6	763.4	762.3	756.5	741.7	719.8	696.8	679.7	676.2	672.8	677.4
20°	817.4	816.2	815.1	805.9	788.7	762.3	734.8	711.8	709.5	706.0	702.6
22.5°	878.3	878.3	873.7	866.7	842.7	811.6	778.4	749.6	749.6	746.2	730.2
25°	936.8	934.5	932.2	924.2	904.6	871.3	832.3	799.0	794.5	794.5	766.9
27.5°	990.8	990.8	994.2	989.6	970.1	935.7	896.7	858.7	856.4	851.8	809.3
30°	1047.0	1049.3	1050.5	1050.5	1041.3	1014.8	972.4	943.7	948.3	936.8	872.5
32.5°	1089.5	1091.8	1106.6	1120.5	1112.4	1097.6	1073.4	1064.2	1068.8	1078.0	1007.9
35°	1129.7	1133.1	1153.7	1182.5	1195.1	1188.2	1191.7	1207.7	1218.0	1254.8	1194.0
37.5°	1159.5	1162.9	1181.3	1216.9	1254.8	1274.3	1306.5	1342.1	1361.5	1408.7	1321.3
40°	1167.5	1173.3	1211.1	1259.3	1316.7	1375.3	1414.3	1460.3	1484.4	1506.3	1407.5
42.5°	1140.0	1145.8	1195.1	1296.2	1376.5	1466.0	1508.6	1571.6	1591.2	1578.5	1474.0
45°	1122.8	1126.2	1176.7	1292.7	1428.1	1553.3	1594.6	1661.2	1672.6	1641.7	1531.4
47.5°	1098.7	1102.2	1156.0	1286.9	1469.4	1629.0	1657.8	1723.1	1738.1	1694.5	1575.1
50°	1063.0	1067.6	1129.7	1276.6	1497.0	1680.7	1711.7	1779.4	1787.5	1741.5	1621.0
52.5°	1020.6	1027.5	1093.0	1254.8	1515.3	1714.0	1754.2	1824.2	1832.2	1802.4	1670.3
55°	968.9	975.8	1045.9	1222.6	1509.7	1724.3	1772.5	1881.6	1895.4	1871.2	1712.9
57.5°	918.4	923.0	995.4	1175.6	1477.5	1740.4	1827.6	1974.5	1993.0	1942.4	1747.3
60°	857.5	867.9	938.0	1111.2	1428.1	1756.5	1898.8	2085.9	2103.2	2011.4	1773.6
62.5°	794.5	803.6	865.6	1030.9	1351.3	1741.5	1952.8	2182.3	2192.7	2066.5	1782.9
65°	721.0	722.1	779.5	928.8	1241.0	1680.7	1957.4	2229.5	2239.8	2100.9	1766.9
67.5°	623.4	623.4	671.6	799.0	1093.0	1570.5	1916.1	2244.4	2259.3	2123.9	1727.7
70°	487.9	495.9	532.7	646.3	904.6	1414.3	1863.3	2255.9	2269.7	2090.5	1639.4
72.5°	340.9	338.6	376.6	445.4	654.3	1128.5	1662.4	2087.1	2087.1	1920.7	1477.5
75°	104.5	117.1	134.3	180.2	298.5	756.5	1361.5	1769.0	1792.1	1663.5	1218.0
77.5°	34.4	34.4	40.2	49.4	64.3	160.7	680.8	1083.8	1102.2	1082.6	754.2
80°	27.5	27.5	31.0	35.6	41.3	82.6	239.9	406.4	436.2	481.1	312.3
82.5°	19.6	19.6	20.7	21.9	20.7	33.3	63.2	107.9	110.2	119.4	101.0
85°	12.7	11.5	11.5	10.4	9.2	9.2	8.1	8.1	9.2	9.2	11.5
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5
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°	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7
2.5°	587.8	589.0	592.3	594.6	596.9	599.2	600.4	601.5	601.5	602.7	602.7
5°	595.8	598.1	603.8	609.6	618.8	628.0	636.1	640.7	641.7	646.3	646.3
7.5°	606.1	609.6	623.4	633.8	647.4	657.8	667.0	671.6	676.2	678.5	678.5
10°	622.2	626.8	640.7	652.0	663.6	671.6	677.4	680.8	682.0	683.1	683.1
12.5°	638.4	644.0	652.0	661.2	668.2	672.8	676.2	677.4	677.4	677.4	677.4
15°	655.5	657.8	660.1	662.4	665.9	667.0	667.0	665.9	663.6	662.4	662.4
17.5°	672.8	670.5	667.0	662.4	657.8	654.3	649.7	645.1	641.7	639.5	640.7
20°	693.4	686.6	671.6	660.1	647.4	634.9	624.5	615.3	608.4	607.3	608.4
22.5°	717.5	703.7	679.7	655.5	633.8	610.7	589.0	576.3	569.4	563.7	563.7
25°	746.2	724.4	686.6	648.6	614.2	577.5	547.6	528.1	516.6	509.7	512.0
27.5°	779.5	751.9	693.4	638.4	585.5	537.3	498.2	467.3	454.6	445.4	446.5
30°	827.7	784.1	701.4	623.4	548.7	487.9	436.2	399.5	377.7	370.8	373.1
32.5°	935.7	852.9	710.6	601.5	507.4	429.4	360.5	315.7	292.7	292.7	291.6
35°	1115.9	996.5	732.5	575.2	461.5	363.9	275.6	234.1	233.0	237.6	238.7
37.5°	1242.2	1128.5	800.1	549.9	411.0	284.7	204.3	192.8	204.3	208.9	207.8
40°	1323.7	1207.7	878.3	523.5	339.8	204.3	161.9	153.8	165.3	174.5	181.3
42.5°	1390.3	1262.8	913.8	489.0	253.7	146.9	119.4	117.1	134.3	146.9	151.5
45°	1443.1	1313.3	918.4	440.8	172.2	109.1	97.6	107.9	128.5	138.9	140.0
47.5°	1485.5	1354.7	905.8	363.9	114.8	95.3	95.3	109.1	128.5	138.9	138.9
50°	1526.8	1389.1	873.7	296.2	103.3	93.0	96.4	110.2	127.5	135.4	135.4
52.5°	1561.4	1412.0	817.4	236.4	99.9	90.7	96.4	110.2	125.2	128.5	126.3
55°	1592.3	1421.2	766.9	190.5	96.4	89.5	98.7	112.5	124.0	124.0	119.4
57.5°	1609.6	1399.5	729.0	157.3	93.0	89.5	99.9	114.8	127.5	129.7	126.3
60°	1609.6	1368.4	687.7	138.9	90.7	89.5	99.9	122.9	151.5	140.0	138.9
62.5°	1587.7	1335.2	625.7	124.0	87.2	90.7	101.0	136.6	184.8	138.9	133.1
65°	1549.9	1270.8	544.1	110.2	83.8	91.8	99.9	157.3	220.5	134.3	118.3
67.5°	1478.6	1168.7	443.1	96.4	79.2	89.5	97.6	144.6	135.4	111.4	99.9
70°	1355.9	1016.0	307.7	83.8	75.8	87.2	97.6	127.5	120.6	102.2	89.5
72.5°	1173.3	833.5	165.3	68.9	66.6	82.6	95.3	117.1	103.3	83.8	75.8
75°	901.1	592.3	101.0	54.0	55.1	73.5	88.4	111.4	98.7	80.3	70.1
77.5°	520.1	274.4	72.4	40.2	39.0	58.6	79.2	103.3	96.4	78.0	67.8
80°	190.5	113.7	49.4	29.8	26.3	42.5	62.0	83.8	91.8	76.9	68.9
82.5°	81.5	60.9	32.1	20.7	19.6	24.2	37.9	58.6	76.9	62.0	57.4
85°	11.5	11.5	11.5	10.4	11.5	15.0	16.1	28.6	42.5	23.0	23.0
87.5°	4.6	4.6	4.6	4.6	5.8	5.8	4.6	4.6	3.5	3.5	3.5
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)