

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: P507509

Luminaire Tested: **VERD-S-CA1-30-750-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507509  
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-CA1-30-750-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 590mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4842.9 lumens  
Efficiency: N/A  
Efficacy: 142.4 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

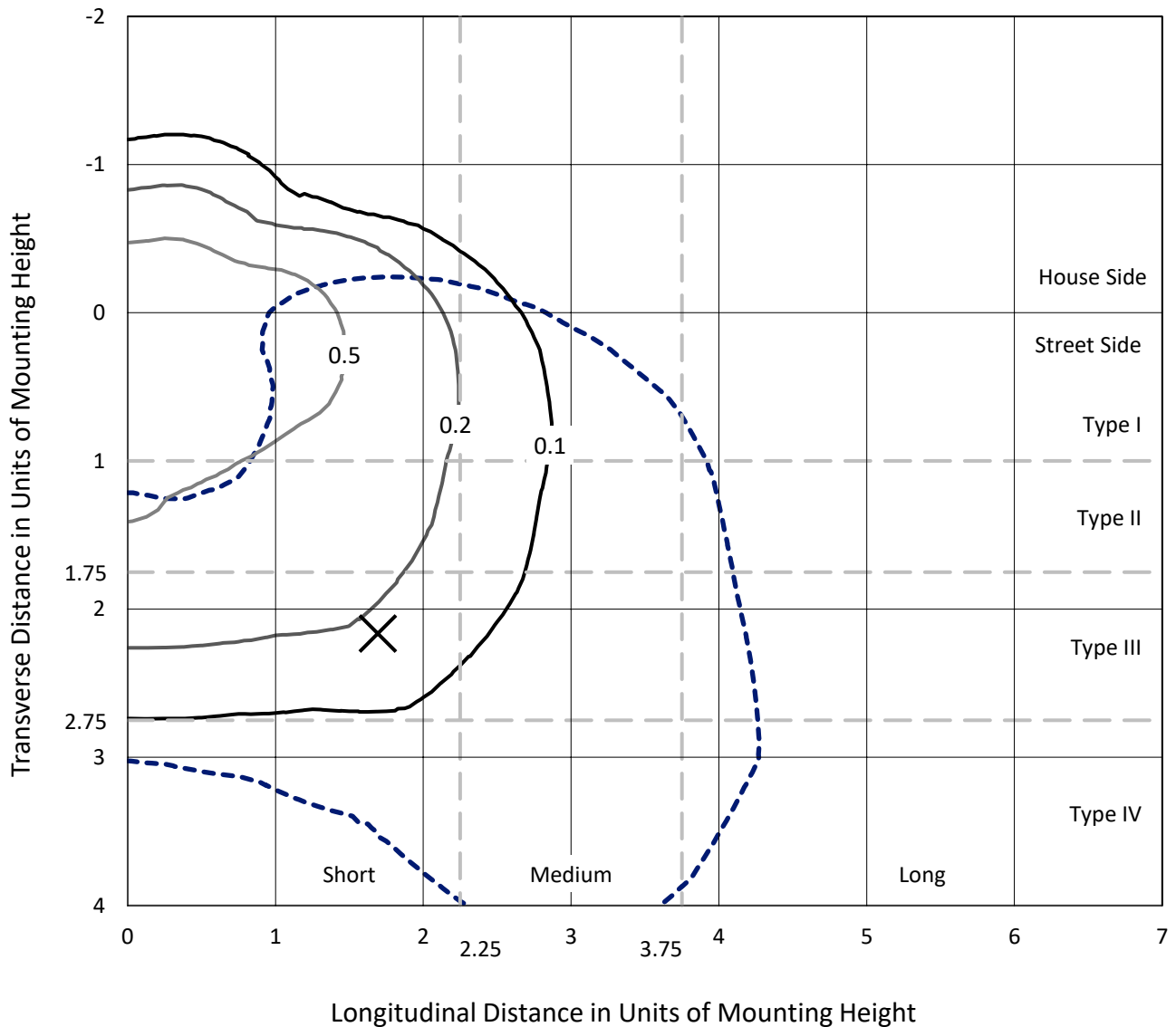
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

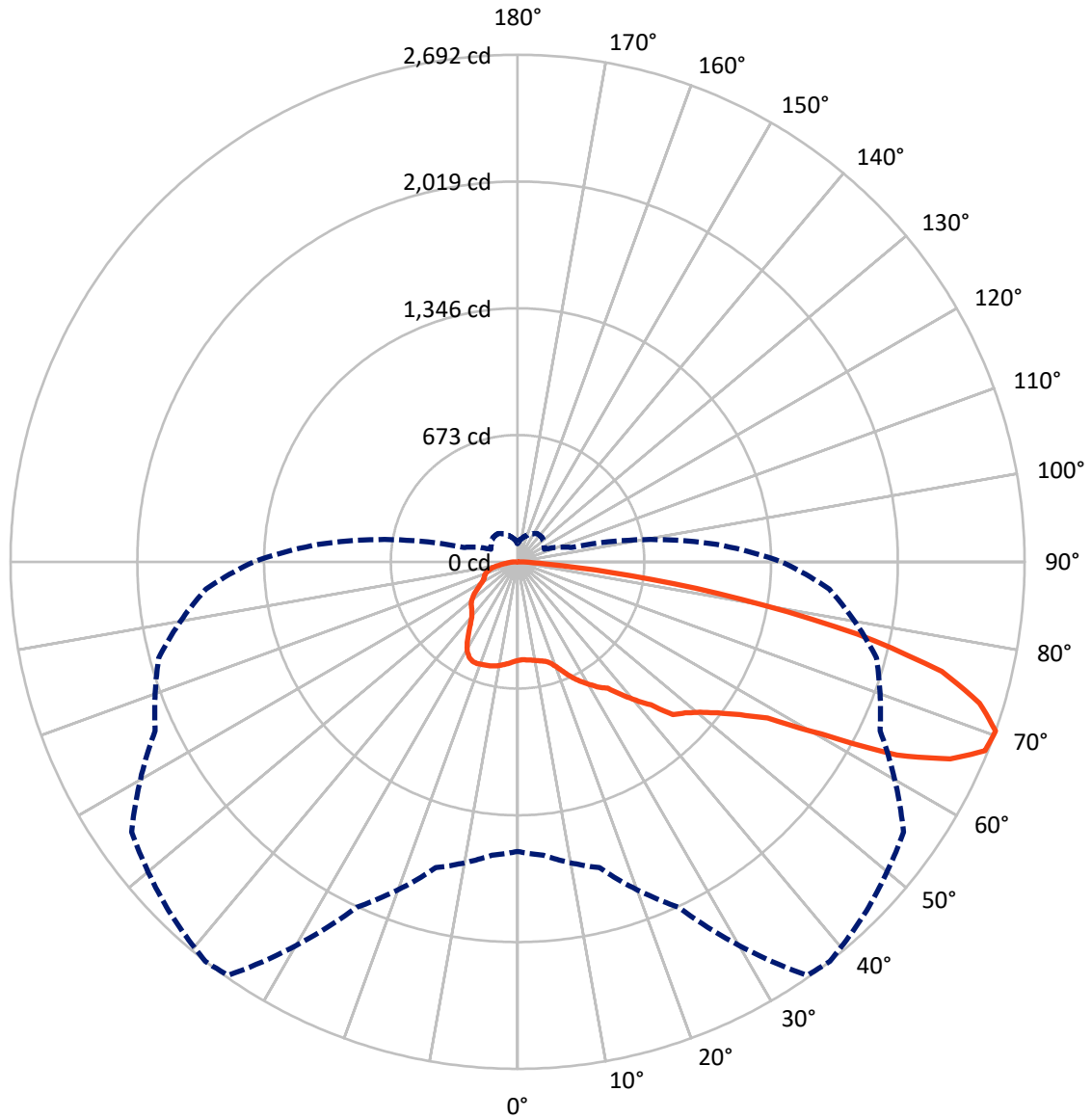
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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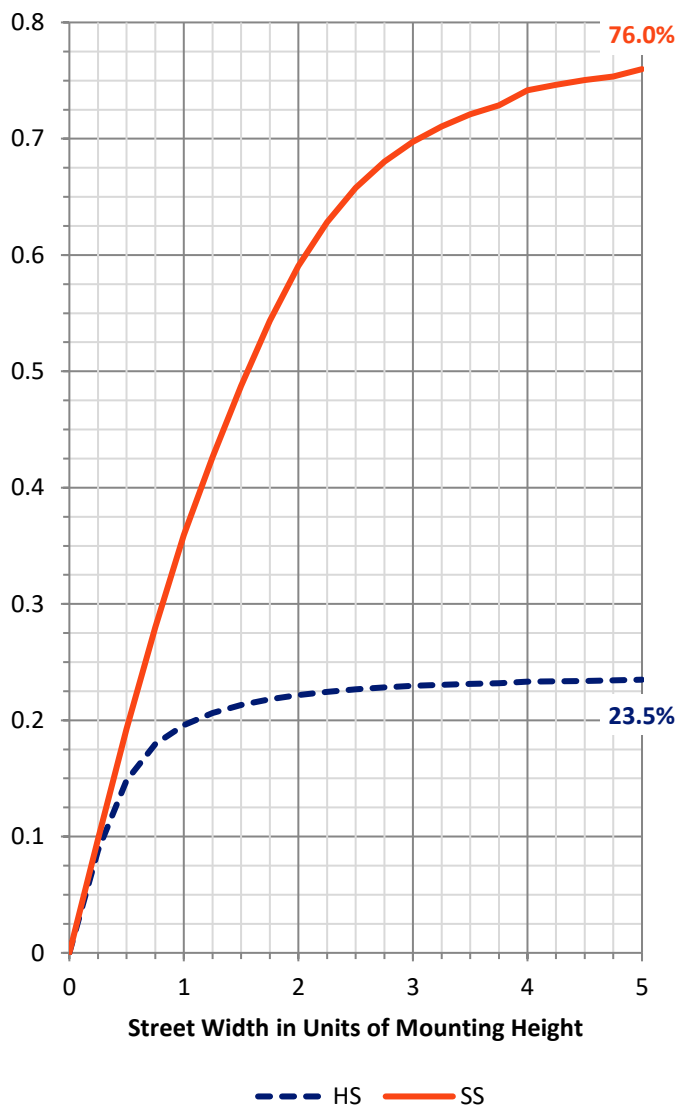
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1150.2	0.0	1150.2
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	3692.7	0.0	3692.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	4842.9	0.0	4842.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	1.1
10°-20°	160.8	3.3
20°-30°	298.3	6.2
30°-40°	461.9	9.5
40°-50°	684.4	14.1
50°-60°	953.6	19.7
60°-70°	1224.7	25.3
70°-80°	896.0	18.5
80°-90°	112.2	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°	4842.9	100.0
0°-180°	4842.9	100.0

**Coefficient of Utilization**

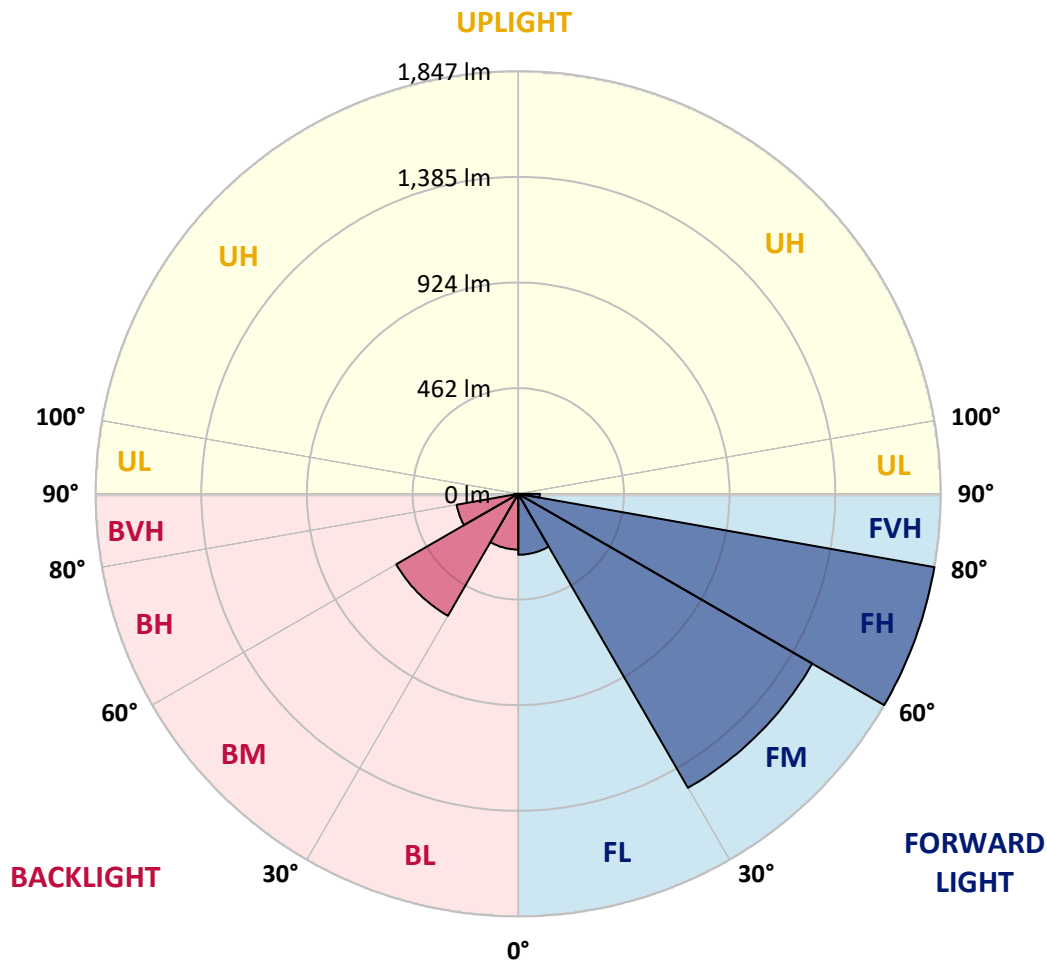


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.5	5.5			
FM (30°-60°)	1484.2	30.6			
FH (60°-80°)	1847.1	38.1			G2/5000
FVH (80°-90°)	94.8	2.0			G1/100
BL (0°-30°)	243.7	5.0	B1/500		
BM (30°-60°)	615.6	12.7	B1/1000		
BH (60°-80°)	273.5	5.6	B1/500		G1/500
BVH (80°-90°)	17.4	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°	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3
2.5°	521.9	521.9	521.9	520.5	520.5	520.5	519.2	519.2	520.5	521.9	521.9
5°	526.1	526.1	524.7	524.7	523.3	523.3	523.3	521.9	521.9	521.9	524.7
7.5°	527.4	527.4	527.4	527.4	527.4	527.4	528.8	527.4	527.4	527.4	530.2
10°	527.4	527.4	528.8	528.8	531.6	533.0	534.3	537.1	537.1	537.1	538.5
12.5°	530.2	530.2	531.6	533.0	537.1	539.9	542.6	546.8	548.1	548.1	549.5
15°	535.7	535.7	537.1	541.2	546.8	548.1	552.3	557.8	563.3	564.7	566.1
17.5°	557.8	557.8	557.8	557.8	563.3	564.7	570.2	578.5	584.0	586.8	590.9
20°	602.0	603.4	600.6	599.2	596.5	596.5	596.5	600.6	607.5	617.2	624.1
22.5°	658.6	658.6	658.6	647.6	640.7	639.3	639.3	637.9	643.4	653.1	662.7
25°	702.8	704.2	702.8	693.1	684.8	682.1	682.1	686.2	686.2	694.5	705.5
27.5°	738.7	741.4	737.3	729.0	722.1	720.7	722.1	734.5	741.4	747.0	760.8
30°	777.3	778.7	769.1	763.5	759.4	756.6	758.0	776.0	799.4	806.3	829.8
32.5°	849.1	849.1	835.3	803.6	792.5	793.9	793.9	817.4	849.1	880.9	911.3
35°	916.8	915.4	903.0	875.4	834.0	824.3	829.8	854.7	904.4	958.2	1012.1
37.5°	996.9	994.1	983.1	944.4	909.9	894.7	864.3	897.5	958.2	1064.5	1119.8
40°	1086.6	1082.5	1057.6	1019.0	973.4	966.5	940.3	945.8	1025.9	1176.4	1239.9
42.5°	1136.3	1133.6	1117.0	1085.2	1052.1	1038.3	1016.2	1009.3	1117.0	1321.3	1353.1
45°	1183.3	1188.8	1188.8	1173.6	1159.8	1157.0	1141.9	1147.4	1234.4	1440.1	1452.5
47.5°	1212.3	1217.8	1199.8	1197.1	1197.1	1198.5	1213.7	1250.9	1340.7	1551.9	1539.5
50°	1299.3	1295.1	1223.3	1234.4	1246.8	1255.1	1288.2	1347.6	1488.4	1652.7	1615.4
52.5°	1456.7	1419.4	1333.8	1308.9	1315.8	1332.4	1376.6	1453.9	1638.9	1742.5	1681.7
55°	1651.3	1629.2	1551.9	1441.5	1405.6	1433.2	1480.1	1558.8	1754.9	1826.7	1734.2
57.5°	1782.5	1790.8	1800.5	1724.5	1557.5	1564.4	1596.1	1662.4	1870.9	1908.2	1775.6
60°	1915.1	1924.7	1978.6	1959.2	1920.6	1857.1	1741.1	1772.8	1957.9	1962.0	1806.0
62.5°	2020.0	2026.9	2107.0	2151.2	2252.0	2260.2	2079.4	1912.3	2049.0	2004.8	1818.4
65°	1967.5	1980.0	2100.1	2223.0	2500.5	2524.0	2464.6	2091.8	2119.4	2021.4	1808.7
67.5°	1790.8	1808.7	1935.8	2196.7	2659.3	2677.2	2619.2	2430.1	2144.3	2014.5	1761.8
70°	1538.1	1564.4	1681.7	2024.1	2681.4	2692.4	2620.6	2501.9	2123.5	1973.0	1661.0
72.5°	1250.9	1271.6	1390.4	1735.6	2547.4	2565.4	2543.3	2442.5	2079.4	1893.0	1458.0
75°	958.2	959.6	1085.2	1360.0	2254.7	2326.5	2363.8	2327.9	1959.2	1665.1	1122.5
77.5°	604.8	622.7	751.1	1030.0	1771.5	1844.6	1861.2	1817.0	1371.1	1021.7	483.3
80°	272.0	299.6	430.8	695.9	1205.4	1202.6	1212.3	1103.2	730.4	324.5	53.8
82.5°	98.0	103.6	180.9	349.3	584.0	599.2	592.3	509.5	197.4	45.6	33.1
85°	41.4	44.2	59.4	93.9	132.5	140.8	121.5	92.5	31.8	26.2	22.1
87.5°	2.8	2.8	2.8	2.8	2.8	4.1	4.1	4.1	4.1	5.5	6.9
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°	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3
2.5°	521.9	523.3	524.7	527.4	527.4	528.8	530.2	531.6	531.6	531.6	531.6
5°	526.1	527.4	528.8	533.0	535.7	537.1	539.9	541.2	542.6	542.6	542.6
7.5°	531.6	533.0	535.7	539.9	544.0	546.8	549.5	550.9	552.3	552.3	552.3
10°	539.9	542.6	546.8	552.3	556.4	556.4	557.8	559.2	560.6	560.6	560.6
12.5°	550.9	553.7	560.6	567.5	568.9	567.5	564.7	564.7	563.3	562.0	562.0
15°	568.9	570.2	579.9	585.4	581.3	574.4	568.9	563.3	559.2	556.4	556.4
17.5°	593.7	597.9	607.5	607.5	596.5	584.0	570.2	556.4	545.4	541.2	539.9
20°	629.6	635.1	643.4	635.1	617.2	595.1	570.2	548.1	526.1	512.2	508.1
22.5°	669.6	676.6	679.3	661.4	635.1	604.8	571.6	537.1	501.2	470.8	462.5
25°	716.6	720.7	711.1	682.1	646.2	607.5	567.5	521.9	466.7	426.6	422.5
27.5°	771.8	767.7	741.4	697.3	648.9	602.0	552.3	491.5	422.5	392.1	388.0
30°	831.2	816.0	767.7	705.5	640.7	585.4	526.1	446.0	389.4	364.5	361.7
32.5°	901.6	871.2	792.5	706.9	625.5	556.4	483.3	408.7	367.3	339.7	336.9
35°	980.3	933.4	814.6	698.6	595.1	516.4	432.2	381.1	343.8	317.6	312.0
37.5°	1086.6	1017.6	842.2	680.7	556.4	465.3	394.9	352.1	320.3	291.3	287.2
40°	1195.7	1114.2	880.9	660.0	513.6	423.9	363.1	331.4	303.8	270.6	263.7
42.5°	1304.8	1210.9	933.4	635.1	470.8	392.1	349.3	328.6	295.5	261.0	254.1
45°	1394.5	1293.7	983.1	606.1	428.0	363.1	341.0	323.1	290.0	252.7	244.4
47.5°	1471.8	1362.8	1025.9	579.9	386.6	341.0	334.1	313.4	281.7	244.4	236.1
50°	1536.7	1418.0	1060.4	557.8	352.1	325.8	320.3	295.5	262.3	230.6	225.1
52.5°	1593.4	1458.0	1075.6	550.9	317.6	307.9	298.2	273.4	243.0	214.0	205.7
55°	1630.6	1488.4	1072.8	550.9	284.4	283.0	272.0	252.7	230.6	207.1	198.8
57.5°	1659.6	1502.2	1052.1	470.8	256.8	251.3	244.4	236.1	222.3	196.1	187.8
60°	1673.4	1493.9	1007.9	342.4	229.2	219.5	225.1	222.3	208.5	172.6	167.1
62.5°	1665.1	1469.1	908.5	249.9	200.2	198.8	207.1	201.6	175.4	143.6	140.8
65°	1633.4	1407.0	781.5	187.8	183.6	193.3	197.4	186.4	161.5	132.5	121.5
67.5°	1551.9	1286.8	568.9	168.4	178.1	189.2	191.9	176.7	151.9	124.3	110.5
70°	1401.4	1060.4	295.5	156.0	169.8	183.6	182.3	162.9	138.1	113.2	96.7
72.5°	1136.3	752.5	111.8	139.5	157.4	171.2	168.4	146.4	98.0	70.4	63.5
75°	737.3	360.4	96.7	120.1	140.8	153.3	154.6	132.5	85.6	59.4	51.1
77.5°	252.7	66.3	78.7	99.4	121.5	138.1	133.9	106.3	66.3	44.2	40.0
80°	42.8	44.2	60.8	70.4	84.2	110.5	93.9	75.9	52.5	31.8	26.2
82.5°	30.4	37.3	42.8	41.4	58.0	73.2	63.5	51.1	34.5	24.9	22.1
85°	22.1	24.9	23.5	24.9	33.1	48.3	44.2	35.9	24.9	17.9	15.2
87.5°	8.3	8.3	11.0	13.8	20.7	30.4	26.2	11.0	9.7	8.3	8.3
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)