

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: P507505

Luminaire Tested: **VERD-S-CA1-30-750-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507505  
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-CA1-30-750-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 590mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4900.4 lumens  
Efficiency: N/A  
Efficacy: 144.1 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

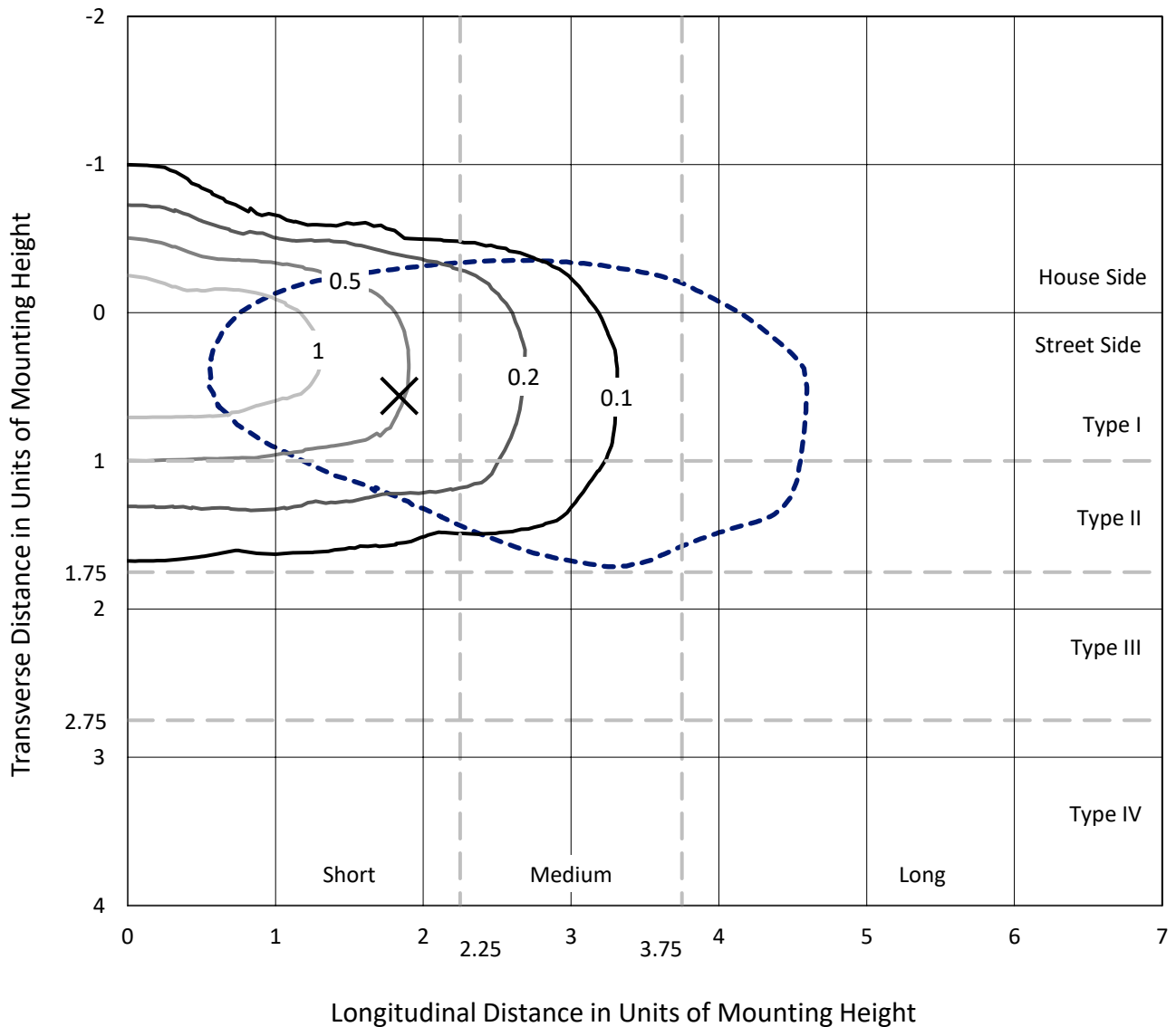
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

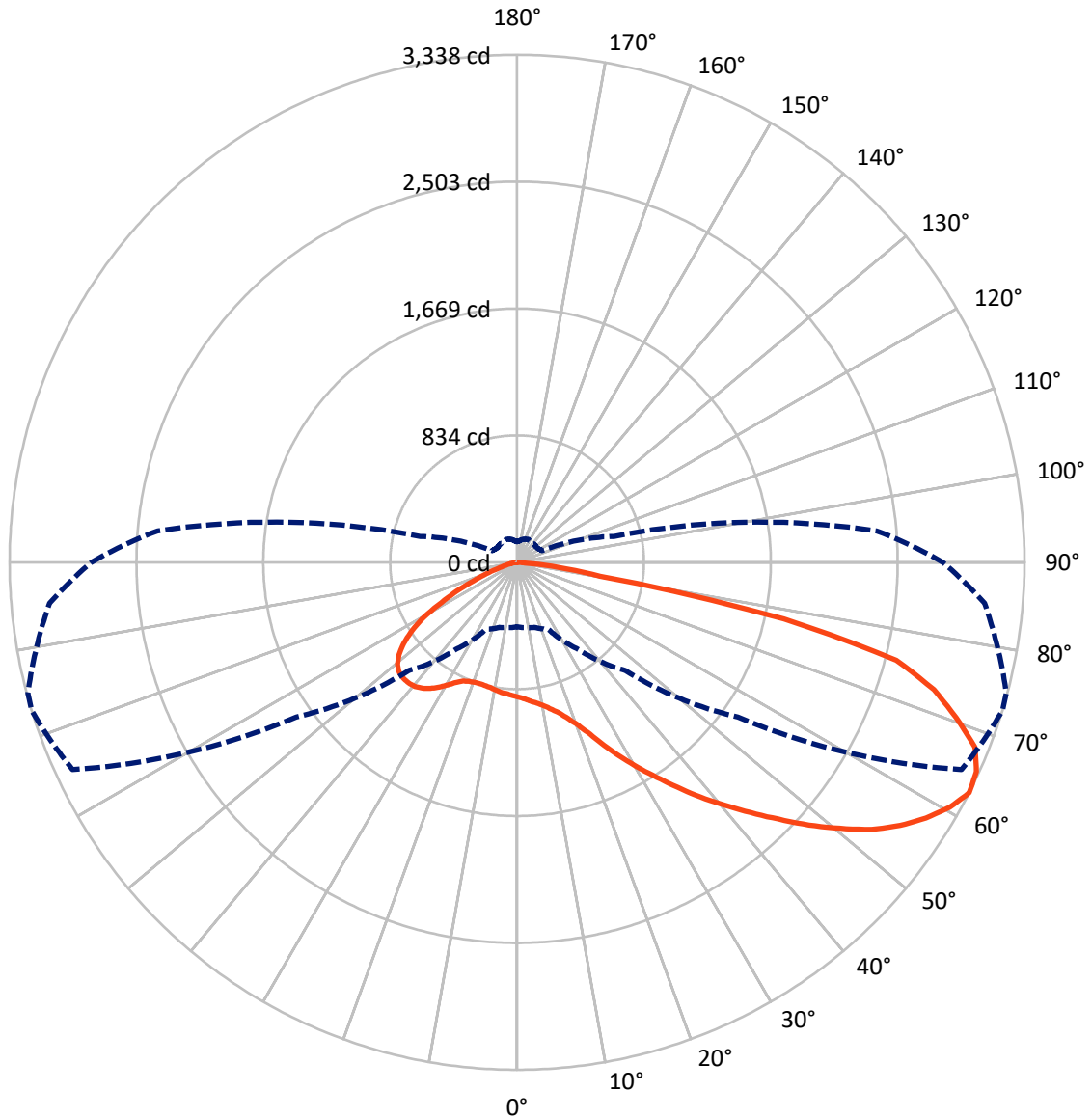
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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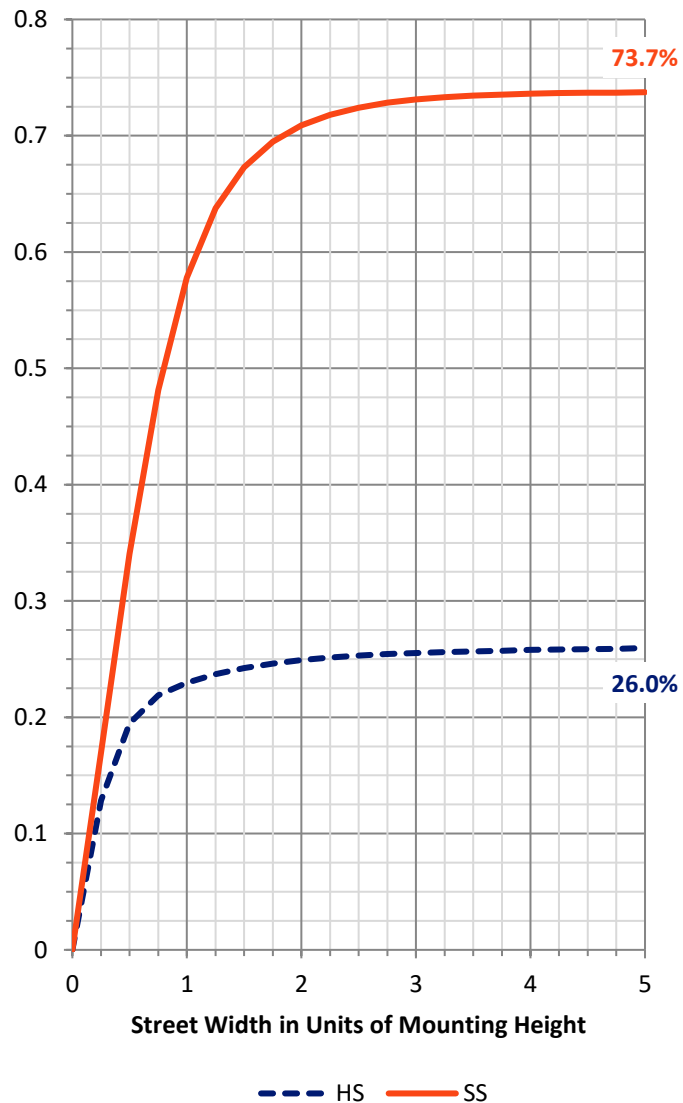
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1290.8	0.0	1290.8
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	3609.5	0.0	3609.5
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	4900.4	0.0	4900.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	1.7
10°-20°	261.5	5.3
20°-30°	452.6	9.2
30°-40°	655.5	13.4
40°-50°	839.6	17.1
50°-60°	972.0	19.8
60°-70°	978.8	20.0
70°-80°	598.4	12.2
80°-90°	56.4	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°	4900.4	100.0
0°-180°	4900.4	100.0

**Coefficient of Utilization**

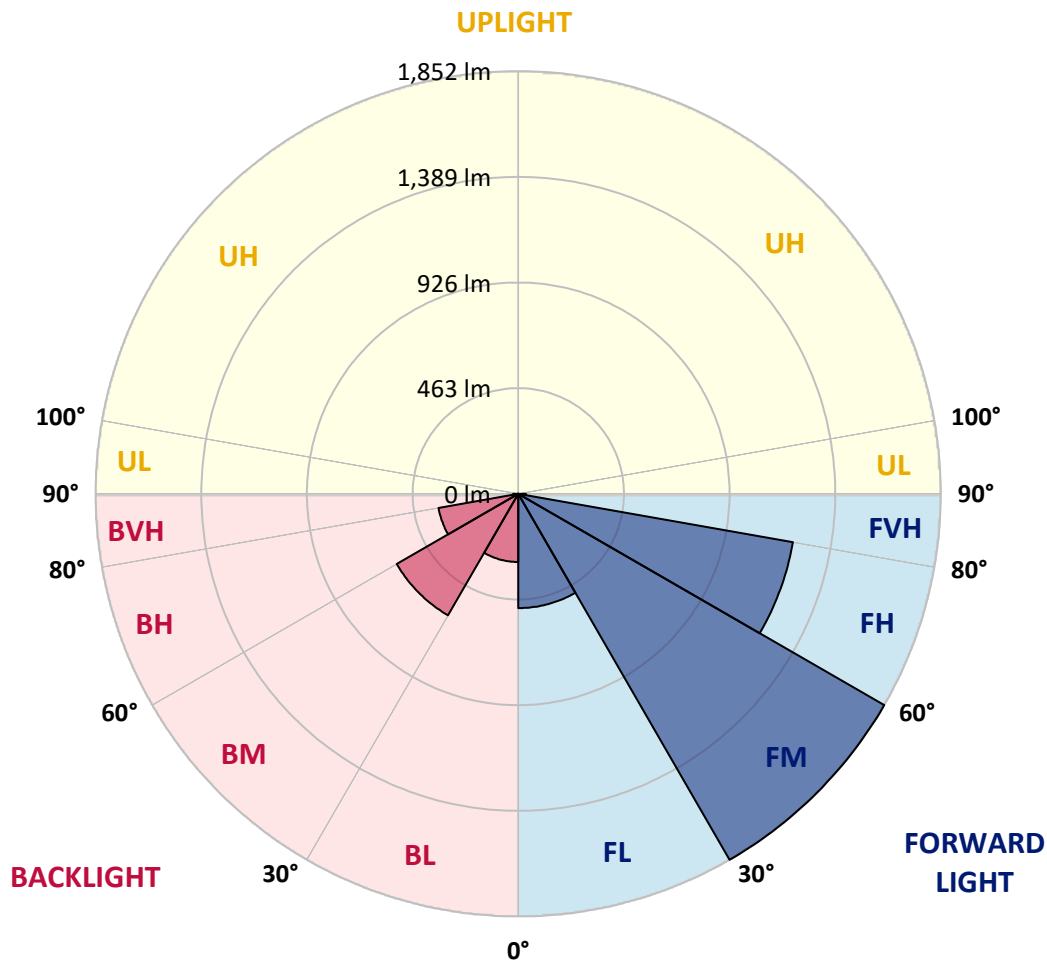


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.8	10.2			
FM (30°-60°)	1852.2	37.8			
FH (60°-80°)	1222.5	24.9			G1/1800
FVH (80°-90°)	34.0	0.7			G1/100
BL (0°-30°)	298.8	6.1	B1/500		
BM (30°-60°)	614.9	12.5	B1/1000		
BH (60°-80°)	354.8	7.2	B1/500		G1/500
BVH (80°-90°)	22.3	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°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	930.7	929.3	926.6	925.2	922.4	915.5	911.4	904.5	899.0	897.6	889.3
5°	976.3	977.7	976.3	972.1	966.6	957.0	943.1	925.2	916.9	914.2	900.3
7.5°	1019.1	1019.1	1017.7	1012.2	1006.7	994.2	974.9	954.2	934.9	929.3	911.4
10°	1060.5	1060.5	1056.4	1050.8	1042.6	1027.4	1008.0	981.8	958.3	950.1	919.7
12.5°	1104.7	1103.3	1097.8	1089.5	1078.5	1066.0	1045.3	1016.3	990.1	980.4	937.6
15°	1139.2	1139.2	1135.1	1129.5	1119.9	1104.7	1085.4	1060.5	1026.0	1017.7	962.5
17.5°	1169.6	1171.0	1168.2	1168.2	1159.9	1148.9	1132.3	1111.6	1078.5	1066.0	999.8
20°	1194.4	1193.1	1198.6	1202.7	1205.5	1198.6	1188.9	1175.1	1142.0	1129.5	1048.1
22.5°	1205.5	1208.2	1224.8	1245.5	1258.0	1259.3	1258.0	1256.6	1227.6	1211.0	1114.4
25°	1211.0	1215.1	1240.0	1275.9	1303.5	1324.2	1346.3	1360.2	1333.9	1321.5	1213.8
27.5°	1216.5	1220.7	1249.7	1293.8	1346.3	1396.1	1440.3	1466.6	1447.2	1432.0	1315.9
30°	1206.9	1211.0	1244.1	1306.3	1381.0	1467.9	1530.1	1567.3	1564.6	1554.9	1433.4
32.5°	1186.2	1190.3	1227.6	1304.9	1416.8	1541.1	1610.1	1672.3	1684.7	1675.0	1550.8
35°	1148.9	1154.4	1197.2	1288.3	1433.4	1601.9	1694.4	1785.5	1817.3	1818.6	1679.2
37.5°	1097.8	1100.5	1153.0	1256.6	1438.9	1644.7	1764.8	1894.6	1959.5	1960.9	1810.4
40°	1028.8	1035.7	1100.5	1216.5	1426.5	1675.0	1835.2	2013.3	2098.9	2089.3	1952.6
42.5°	950.1	955.6	1019.1	1153.0	1397.5	1693.0	1900.1	2137.6	2250.8	2245.3	2086.5
45°	879.6	887.9	936.2	1064.7	1342.2	1697.1	1956.7	2262.0	2408.3	2401.4	2223.2
47.5°	785.7	806.5	871.3	985.9	1259.3	1679.2	2007.8	2430.4	2582.3	2572.6	2366.9
50°	604.9	611.8	748.5	919.7	1165.4	1635.0	2052.0	2586.4	2750.7	2743.8	2517.4
52.5°	545.5	551.0	595.2	843.7	1071.6	1556.3	2078.2	2786.6	2919.2	2899.9	2652.7
55°	512.4	517.9	542.7	673.9	990.1	1437.6	2083.7	2956.5	3055.9	3037.9	2779.7
57.5°	482.0	486.1	509.6	577.3	896.2	1273.1	2054.7	3093.2	3172.0	3153.9	2894.3
60°	450.1	454.4	479.2	524.8	780.2	1122.6	1959.5	3199.6	3270.0	3252.1	2997.9
62.5°	423.9	430.8	443.2	486.1	697.4	1005.3	1773.1	3225.8	3337.7	3330.8	3086.3
65°	392.1	394.9	414.2	448.7	615.9	923.8	1572.9	3149.8	3319.7	3332.1	3138.7
67.5°	356.2	357.6	375.6	400.4	515.1	843.7	1394.8	3047.6	3247.9	3268.6	3100.1
70°	307.9	309.3	325.8	352.1	426.6	731.9	1211.0	2897.1	3064.2	3083.5	2950.9
72.5°	256.8	256.8	270.6	299.6	352.1	606.3	969.4	2567.1	2866.7	2898.5	2707.9
75°	111.8	116.0	139.5	167.1	227.8	446.0	661.5	1987.1	2576.8	2598.9	2373.8
77.5°	30.4	30.4	35.9	46.9	66.3	198.8	209.9	874.1	1795.2	1851.8	1755.1
80°	24.9	24.9	27.6	35.9	45.6	98.0	70.4	281.7	555.2	731.9	910.0
82.5°	13.8	13.8	16.6	20.7	24.9	24.9	24.9	143.6	273.4	291.3	381.1
85°	6.9	8.3	8.3	9.7	9.7	8.3	8.3	29.0	52.5	59.4	91.1
87.5°	2.8	2.8	2.8	2.8	1.4	1.4	2.8	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°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	886.5	882.4	876.9	872.7	864.4	856.2	850.6	846.5	845.1	843.7	843.7
5°	892.1	885.2	870.0	854.8	842.4	831.3	821.6	814.7	812.0	810.6	810.6
7.5°	900.3	890.7	865.8	843.7	821.6	805.1	789.9	780.2	774.7	776.1	780.2
10°	904.5	889.3	856.2	834.1	805.1	778.8	760.9	749.8	745.7	745.7	744.3
12.5°	915.5	893.4	849.3	814.7	789.9	754.0	733.3	723.6	718.1	709.8	707.0
15°	932.1	904.5	846.5	800.9	762.3	730.5	702.9	689.1	685.0	673.9	673.9
17.5°	962.5	923.8	846.5	785.7	736.0	705.7	669.8	650.4	647.7	640.8	639.4
20°	998.4	950.1	853.4	770.6	708.4	668.4	628.3	609.0	602.1	595.2	595.2
22.5°	1055.0	990.1	865.8	759.5	679.4	629.7	585.5	557.9	546.9	545.5	542.7
25°	1142.0	1053.6	885.2	748.5	650.4	586.9	542.7	506.8	488.9	486.1	484.7
27.5°	1237.2	1140.6	923.8	738.8	618.7	538.6	486.1	447.4	425.3	422.5	421.1
30°	1339.4	1230.3	974.9	730.5	578.6	483.4	423.9	386.6	365.9	360.4	361.7
32.5°	1451.4	1327.0	1030.1	723.6	535.8	411.5	356.2	331.4	309.3	299.6	301.0
35°	1560.4	1412.7	1078.5	718.1	479.2	346.6	303.8	277.5	255.4	243.0	243.0
37.5°	1683.3	1513.5	1118.5	707.0	418.4	302.4	261.0	234.7	218.2	207.1	207.1
40°	1803.5	1614.3	1150.3	686.3	350.7	266.5	215.4	200.2	189.2	182.3	179.5
42.5°	1920.8	1715.1	1171.0	651.8	294.1	223.7	179.5	178.1	179.5	172.6	171.2
45°	2042.3	1814.5	1186.2	596.6	254.1	185.0	160.2	169.8	179.5	176.7	176.7
47.5°	2174.9	1911.1	1198.6	506.8	215.4	162.9	158.8	168.4	180.9	182.3	182.3
50°	2302.0	2009.2	1194.4	392.1	189.2	161.5	160.2	162.9	179.5	183.6	180.9
52.5°	2420.7	2093.4	1161.3	285.8	176.7	164.3	164.3	161.5	175.4	178.1	179.5
55°	2540.9	2172.1	1086.7	226.4	169.8	164.3	171.2	164.3	168.4	169.8	172.6
57.5°	2649.9	2252.2	976.3	203.0	168.4	164.3	171.2	167.1	167.1	161.5	160.2
60°	2734.2	2318.6	842.4	193.3	164.3	165.7	168.4	168.4	164.3	151.9	147.7
62.5°	2800.4	2373.8	658.7	180.9	161.5	162.9	161.5	167.1	157.4	139.5	135.3
65°	2837.7	2383.5	504.1	167.1	154.6	160.2	156.0	154.6	146.4	127.0	118.7
67.5°	2796.3	2315.8	352.1	153.3	146.4	156.0	149.1	143.6	133.9	116.0	104.9
70°	2636.1	2119.6	232.0	135.3	135.3	146.4	140.8	132.5	120.1	106.3	93.9
72.5°	2335.1	1826.9	139.5	111.8	120.1	133.9	131.2	120.1	84.2	64.9	56.6
75°	1974.7	1501.1	89.7	84.2	98.0	120.1	121.5	107.7	71.8	58.0	58.0
77.5°	1434.8	985.9	52.5	46.9	64.9	96.7	103.6	78.7	77.3	107.7	78.7
80°	736.0	477.8	40.0	29.0	34.5	71.8	58.0	59.4	117.4	87.0	55.2
82.5°	318.9	189.2	24.9	20.7	22.1	35.9	37.3	98.0	91.1	51.1	34.5
85°	67.7	35.9	13.8	13.8	13.8	16.6	20.7	106.3	56.6	26.2	11.0
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	5.5	5.5	5.5	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)