

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: P507513

Luminaire Tested: **VERD-S-CA1-30-760-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507513
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-CA1-30-760-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 590mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4795.7 lumens
Efficiency: N/A
Efficacy: 141.0 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

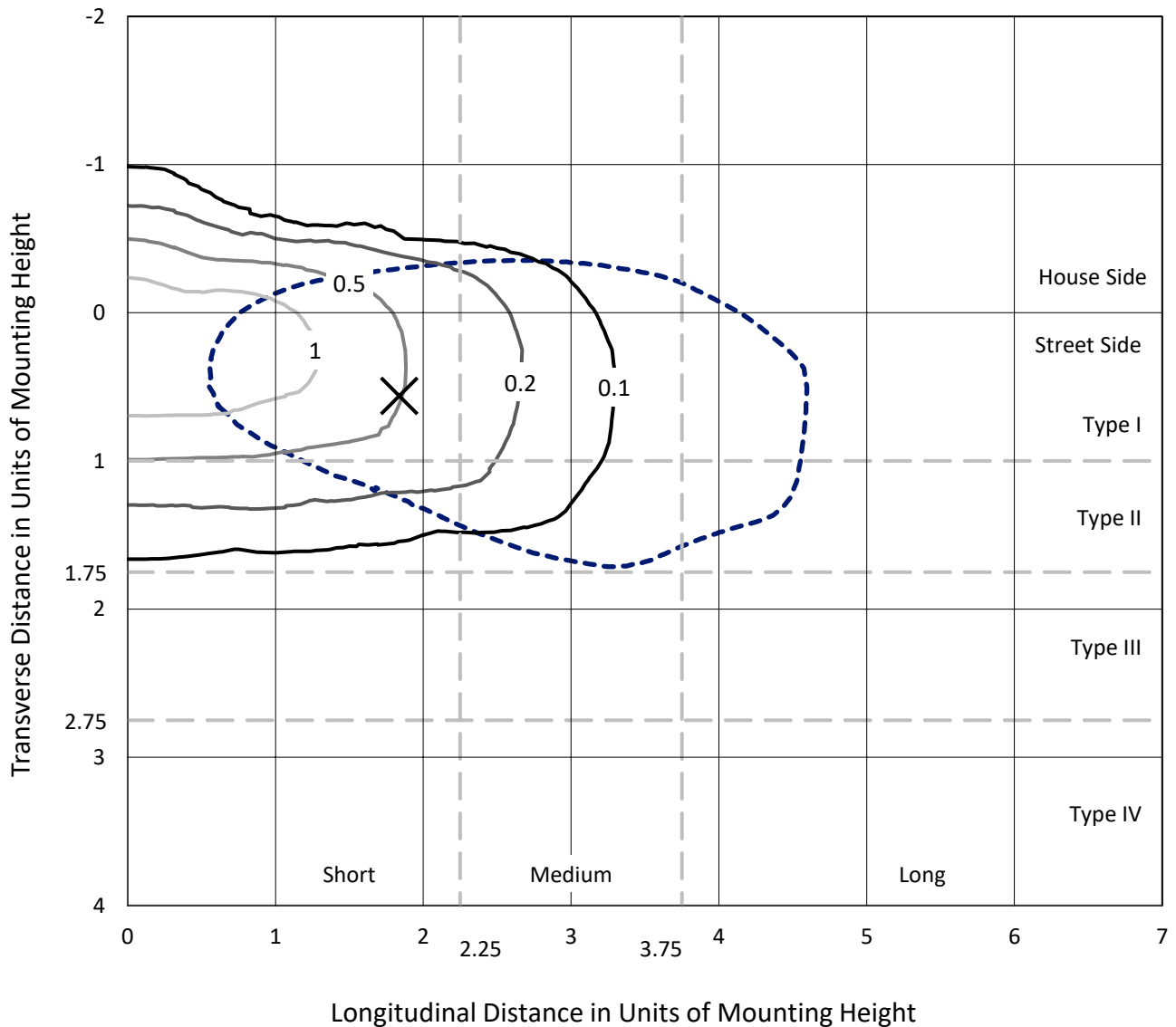
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

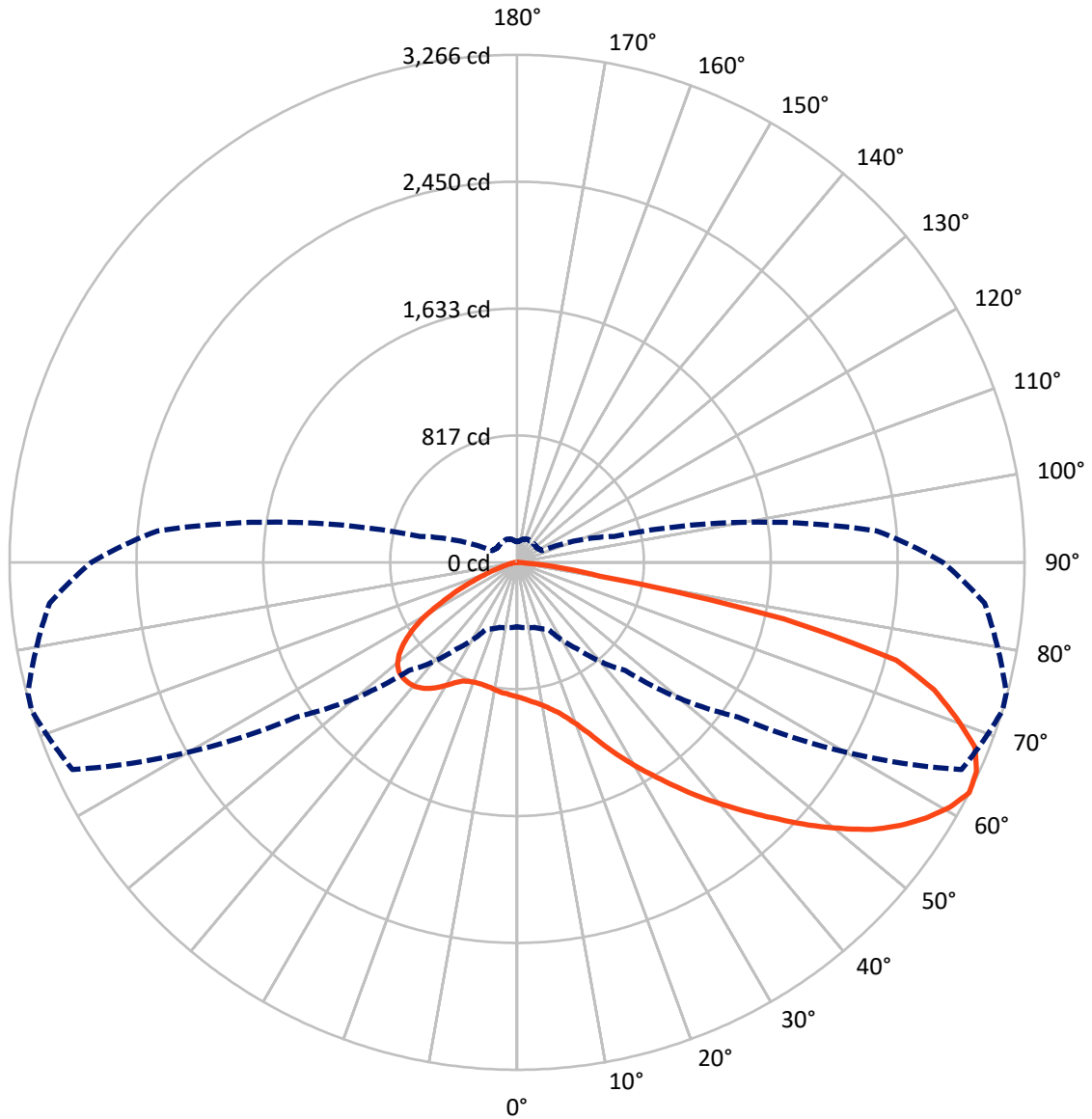
✕ Max cd
 - - - 1/2 Max cd



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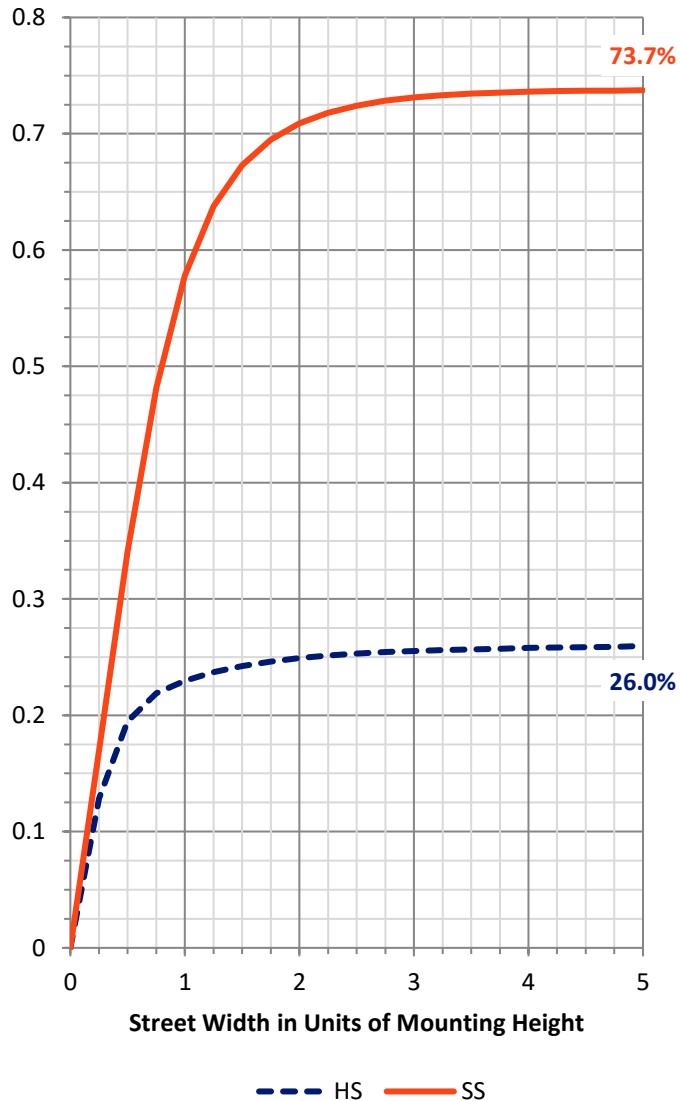
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.3	0.0	1263.3
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	3532.4	0.0	3532.4
	% Fixture	73.7	0.0	73.7
Total	Lumens	4795.7	0.0	4795.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.7
10°-20°	255.9	5.3
20°-30°	442.9	9.2
30°-40°	641.5	13.4
40°-50°	821.6	17.1
50°-60°	951.3	19.8
60°-70°	957.9	20.0
70°-80°	585.6	12.2
80°-90°	55.1	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°	4795.7	100.0
0°-180°	4795.7	100.0

Coefficient of Utilization

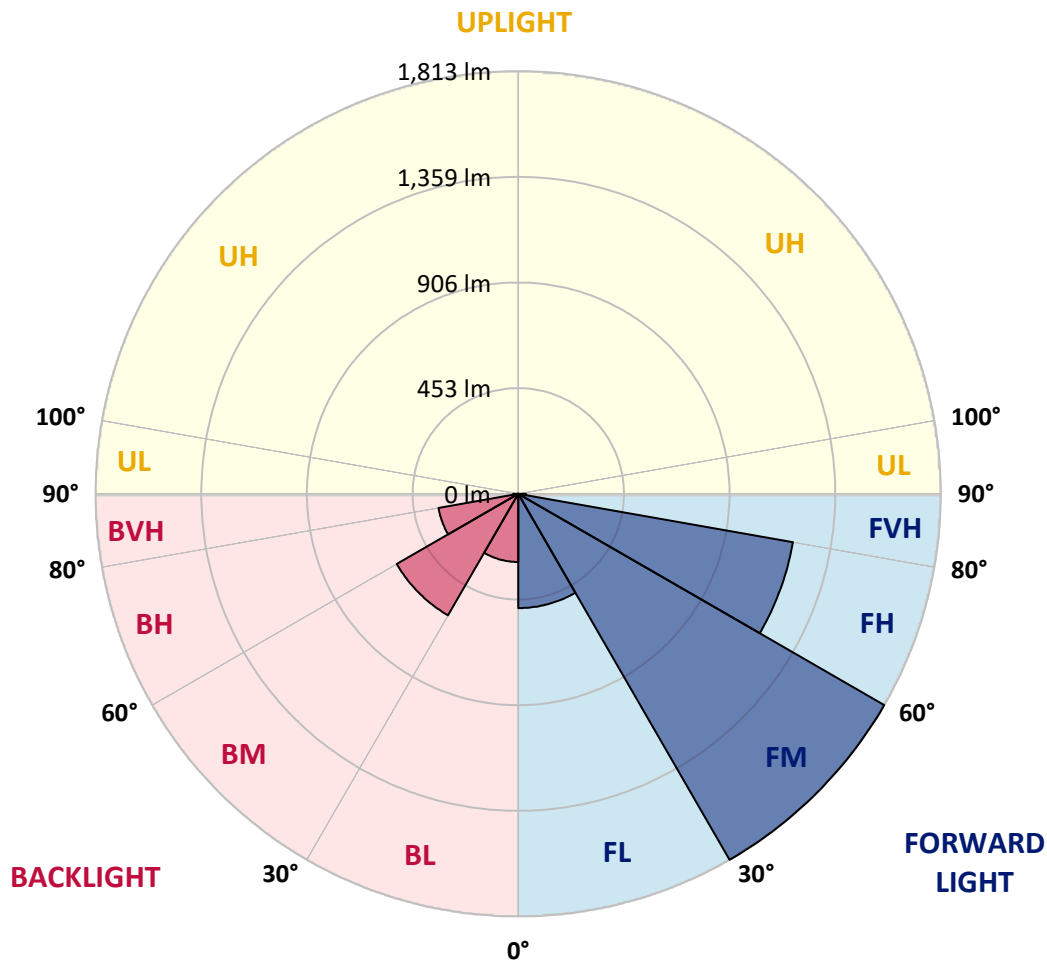


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.1	10.2			
FM (30°-60°)	1812.6	37.8			
FH (60°-80°)	1196.4	24.9			G1/1800
FVH (80°-90°)	33.3	0.7			G1/100
BL (0°-30°)	292.4	6.1	B1/500		
BM (30°-60°)	601.8	12.5	B1/1000		
BH (60°-80°)	347.2	7.2	B1/500		G1/500
BVH (80°-90°)	21.8	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°	866.3	866.3	866.3	866.3	866.3	866.3	866.3	866.3	866.3	866.3	866.3
2.5°	910.8	909.4	906.8	905.4	902.8	896.0	891.9	885.2	879.7	878.4	870.3
5°	955.5	956.8	955.5	951.4	946.0	936.5	923.0	905.4	897.4	894.6	881.1
7.5°	997.3	997.3	996.0	990.6	985.1	972.9	954.1	933.8	914.8	909.4	891.9
10°	1037.8	1037.8	1033.8	1028.4	1020.4	1005.4	986.5	960.9	937.9	929.8	900.0
12.5°	1081.1	1079.7	1074.3	1066.3	1055.4	1043.2	1023.0	994.6	968.9	959.5	917.6
15°	1114.9	1114.9	1110.8	1105.4	1095.9	1081.1	1062.2	1037.8	1004.1	996.0	941.9
17.5°	1144.6	1146.0	1143.2	1143.2	1135.2	1124.4	1108.1	1087.9	1055.4	1043.2	978.4
20°	1169.0	1167.6	1173.0	1177.1	1179.7	1173.0	1163.6	1150.0	1117.6	1105.4	1025.8
22.5°	1179.7	1182.5	1198.7	1218.9	1231.1	1232.5	1231.1	1229.8	1201.3	1185.1	1090.5
25°	1185.1	1189.3	1213.5	1248.6	1275.7	1296.0	1317.6	1331.1	1305.5	1293.3	1187.9
27.5°	1190.5	1194.7	1223.0	1266.2	1317.6	1366.2	1409.5	1435.1	1416.3	1401.4	1287.9
30°	1181.1	1185.1	1217.6	1278.4	1351.4	1436.5	1497.4	1533.9	1531.1	1521.7	1402.7
32.5°	1160.8	1164.9	1201.3	1277.1	1386.5	1508.2	1575.7	1636.5	1648.7	1639.3	1517.6
35°	1124.4	1129.8	1171.7	1260.8	1402.7	1567.6	1658.1	1747.3	1778.5	1779.7	1643.3
37.5°	1074.3	1077.1	1128.4	1229.8	1408.1	1609.5	1727.1	1854.1	1917.6	1919.0	1771.7
40°	1006.8	1013.6	1077.1	1190.5	1396.0	1639.3	1796.0	1970.3	2054.2	2044.6	1910.9
42.5°	929.8	935.2	997.3	1128.4	1367.6	1656.7	1859.5	2091.9	2202.8	2197.4	2042.0
45°	860.9	868.9	916.2	1041.9	1313.5	1660.9	1914.9	2213.5	2356.8	2350.1	2175.8
47.5°	768.9	789.2	852.7	964.9	1232.5	1643.3	1964.9	2378.4	2527.1	2517.6	2316.3
50°	591.9	598.7	732.5	900.0	1140.6	1600.0	2008.1	2531.2	2691.9	2685.3	2463.5
52.5°	533.8	539.2	582.4	825.7	1048.7	1523.0	2033.8	2727.2	2856.8	2838.0	2596.0
55°	501.3	506.7	531.1	659.5	968.9	1406.8	2039.2	2893.3	2990.6	2973.0	2720.4
57.5°	471.6	475.7	498.7	564.8	877.1	1246.0	2010.9	3027.1	3104.1	3086.6	2832.5
60°	440.6	444.6	469.0	513.5	763.5	1098.7	1917.6	3131.1	3200.0	3182.6	2933.9
62.5°	414.9	421.6	433.8	475.7	682.4	983.8	1735.2	3156.9	3266.3	3259.5	3020.3
65°	383.8	386.5	405.5	439.2	602.7	904.0	1539.3	3082.6	3248.7	3260.9	3071.8
67.5°	348.6	350.0	367.6	391.9	504.1	825.7	1365.0	2982.5	3178.4	3198.8	3033.9
70°	301.3	302.7	318.9	344.6	417.6	716.2	1185.1	2835.2	2998.7	3017.7	2887.9
72.5°	251.4	251.4	264.9	293.3	344.6	593.2	948.7	2512.2	2805.5	2836.6	2650.1
75°	109.4	113.6	136.5	163.5	223.0	436.5	647.3	1944.6	2521.7	2543.3	2323.1
77.5°	29.7	29.7	35.1	45.9	64.9	194.6	205.4	855.5	1756.9	1812.2	1717.6
80°	24.3	24.3	27.0	35.1	44.6	96.0	68.9	275.7	543.3	716.2	890.6
82.5°	13.5	13.5	16.2	20.3	24.3	24.3	24.3	140.5	267.6	285.1	373.0
85°	6.8	8.1	8.1	9.4	9.4	8.1	8.1	28.4	51.3	58.1	89.2
87.5°	2.6	2.6	2.6	2.6	1.4	1.4	2.6	4.0	4.0	5.4	6.8
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°	866.3	866.3	866.3	866.3	866.3	866.3	866.3	866.3	866.3	866.3	866.3
2.5°	867.6	863.5	858.1	854.1	845.9	837.9	832.5	828.4	827.1	825.7	825.7
5°	873.0	866.3	851.3	836.5	824.4	813.6	804.0	797.4	794.6	793.2	793.2
7.5°	881.1	871.7	847.3	825.7	804.0	787.8	773.0	763.5	758.1	759.5	763.5
10°	885.2	870.3	837.9	816.2	787.8	762.2	744.7	733.9	729.7	729.7	728.4
12.5°	896.0	874.3	831.1	797.4	773.0	737.9	717.6	708.1	702.7	694.6	691.9
15°	912.2	885.2	828.4	783.8	745.9	714.9	687.8	674.4	670.3	659.5	659.5
17.5°	941.9	904.0	828.4	768.9	720.3	690.6	655.4	636.5	633.8	627.1	625.7
20°	977.1	929.8	835.1	754.1	693.2	654.1	614.9	596.0	589.2	582.4	582.4
22.5°	1032.4	968.9	847.3	743.3	664.9	616.3	573.0	546.0	535.1	533.8	531.1
25°	1117.6	1031.2	866.3	732.5	636.5	574.4	531.1	495.9	478.4	475.7	474.4
27.5°	1210.9	1116.2	904.0	723.0	605.4	527.1	475.7	437.8	416.2	413.5	412.1
30°	1310.9	1204.1	954.1	714.9	566.2	473.0	414.9	378.4	358.1	352.7	354.0
32.5°	1420.3	1298.7	1008.2	708.1	524.3	402.7	348.6	324.4	302.7	293.3	294.6
35°	1527.1	1382.4	1055.4	702.7	469.0	339.2	297.3	271.7	250.0	237.8	237.8
37.5°	1647.3	1481.2	1094.7	691.9	409.5	295.9	255.4	229.8	213.6	202.7	202.7
40°	1764.9	1579.8	1125.7	671.6	343.2	260.8	210.8	195.9	185.1	178.3	175.7
42.5°	1879.7	1678.4	1146.0	637.9	287.9	219.0	175.7	174.3	175.7	168.9	167.5
45°	1998.7	1775.7	1160.8	583.8	248.6	181.1	156.7	166.3	175.7	172.9	172.9
47.5°	2128.5	1870.3	1173.0	495.9	210.8	159.5	155.4	164.9	177.1	178.3	178.3
50°	2252.8	1966.3	1169.0	383.8	185.1	158.1	156.7	159.5	175.7	179.7	177.1
52.5°	2369.0	2048.8	1136.6	279.7	172.9	160.9	160.9	158.1	171.7	174.3	175.7
55°	2486.6	2125.7	1063.5	221.6	166.3	160.9	167.5	160.9	164.9	166.3	168.9
57.5°	2593.3	2204.1	955.5	198.7	164.9	160.9	167.5	163.5	163.5	158.1	156.7
60°	2675.7	2269.0	824.4	189.2	160.9	162.1	164.9	164.9	160.9	148.7	144.6
62.5°	2740.6	2323.1	644.6	177.1	158.1	159.5	158.1	163.5	154.1	136.5	132.4
65°	2777.1	2332.5	493.3	163.5	151.3	156.7	152.7	151.3	143.2	124.4	116.2
67.5°	2736.6	2266.3	344.6	150.0	143.2	152.7	145.9	140.5	131.1	113.6	102.7
70°	2579.8	2074.4	227.0	132.4	132.4	143.2	137.8	129.8	117.6	104.0	91.9
72.5°	2285.2	1787.9	136.5	109.4	117.6	131.1	128.4	117.6	82.4	63.5	55.5
75°	1932.4	1469.0	87.8	82.4	96.0	117.6	119.0	105.4	70.3	56.7	56.7
77.5°	1404.1	964.9	51.3	45.9	63.5	94.6	101.4	77.0	75.7	105.4	77.0
80°	720.3	467.6	39.2	28.4	33.8	70.3	56.7	58.1	114.8	85.1	54.1
82.5°	312.2	185.1	24.3	20.3	21.6	35.1	36.5	96.0	89.2	50.1	33.8
85°	66.3	35.1	13.5	13.5	13.5	16.2	20.3	104.0	55.5	25.7	10.8
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	5.4	5.4	5.4	4.0	4.0
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)