

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: P507521

Luminaire Tested: **VERD-S-CA1-40-722-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507521
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-CA1-40-722-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 760mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4980 lumens
Efficiency: N/A
Efficacy: 114.7 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): 43.4
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

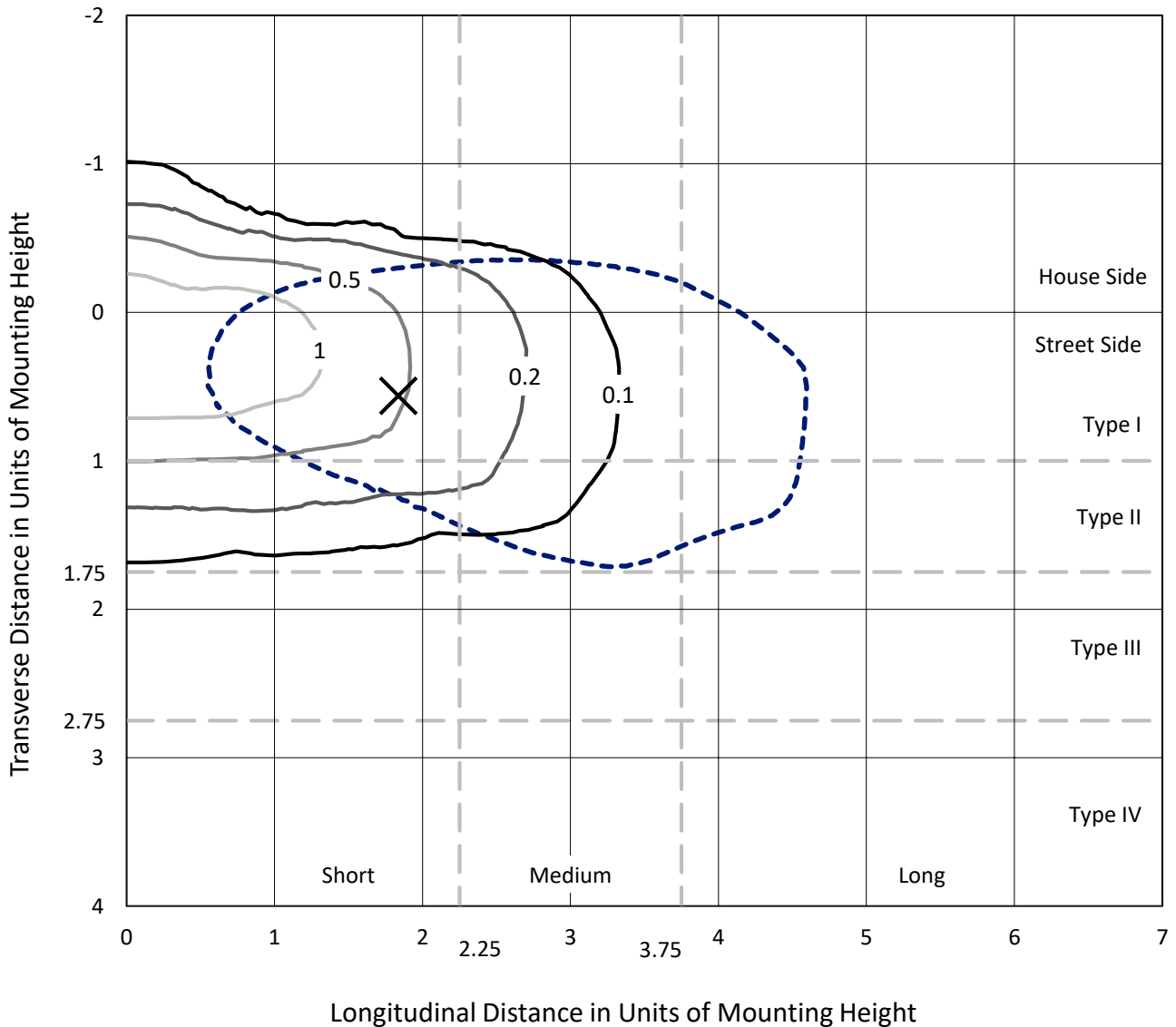


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Iso-Footcandle Lines of Horizontal Illumination

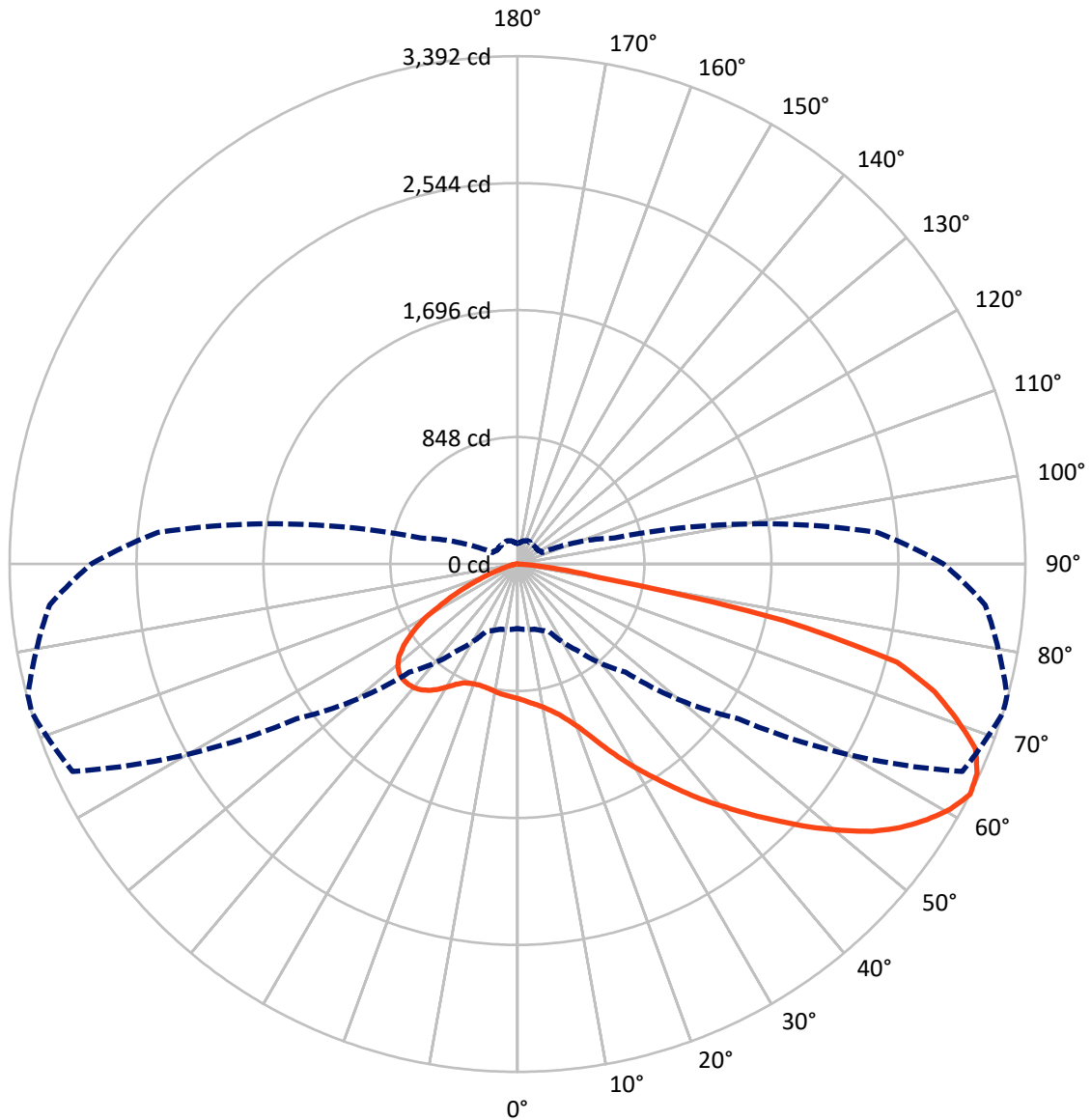
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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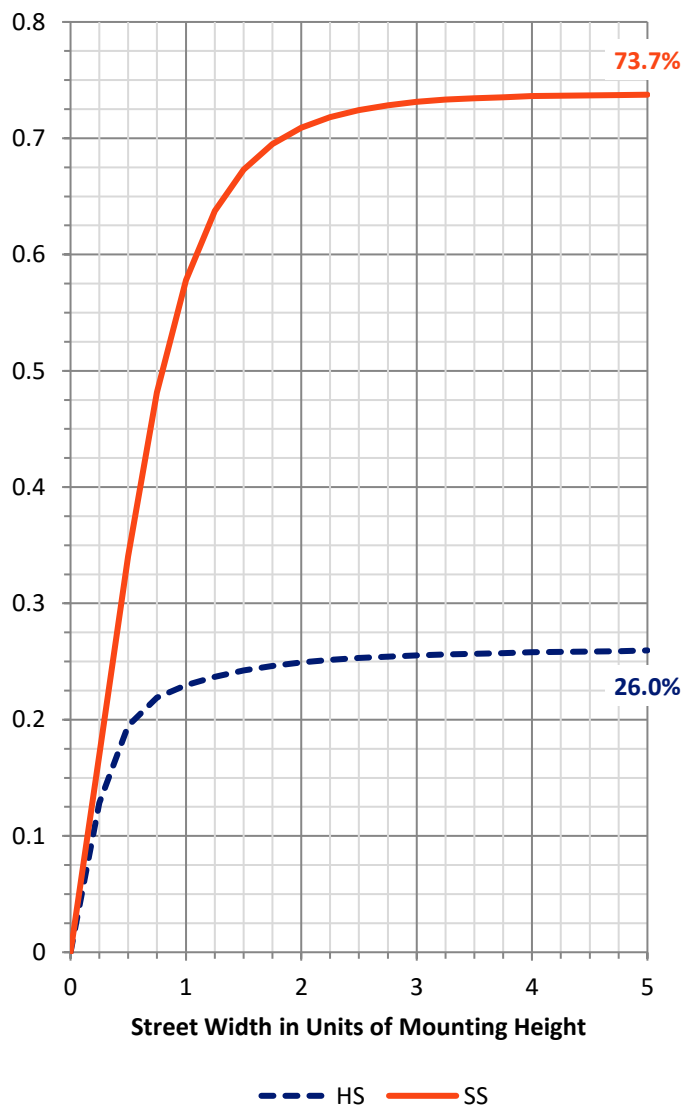
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.8	0.0	1311.8
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	3668.2	0.0	3668.2
	% Fixture	73.7	0.0	73.7
Total	Lumens	4980.0	0.0	4980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	1.7
10°-20°	265.7	5.3
20°-30°	460.0	9.2
30°-40°	666.1	13.4
40°-50°	853.2	17.1
50°-60°	987.8	19.8
60°-70°	994.8	20.0
70°-80°	608.2	12.2
80°-90°	57.3	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°	4980.0	100.0
0°-180°	4980.0	100.0

Coefficient of Utilization



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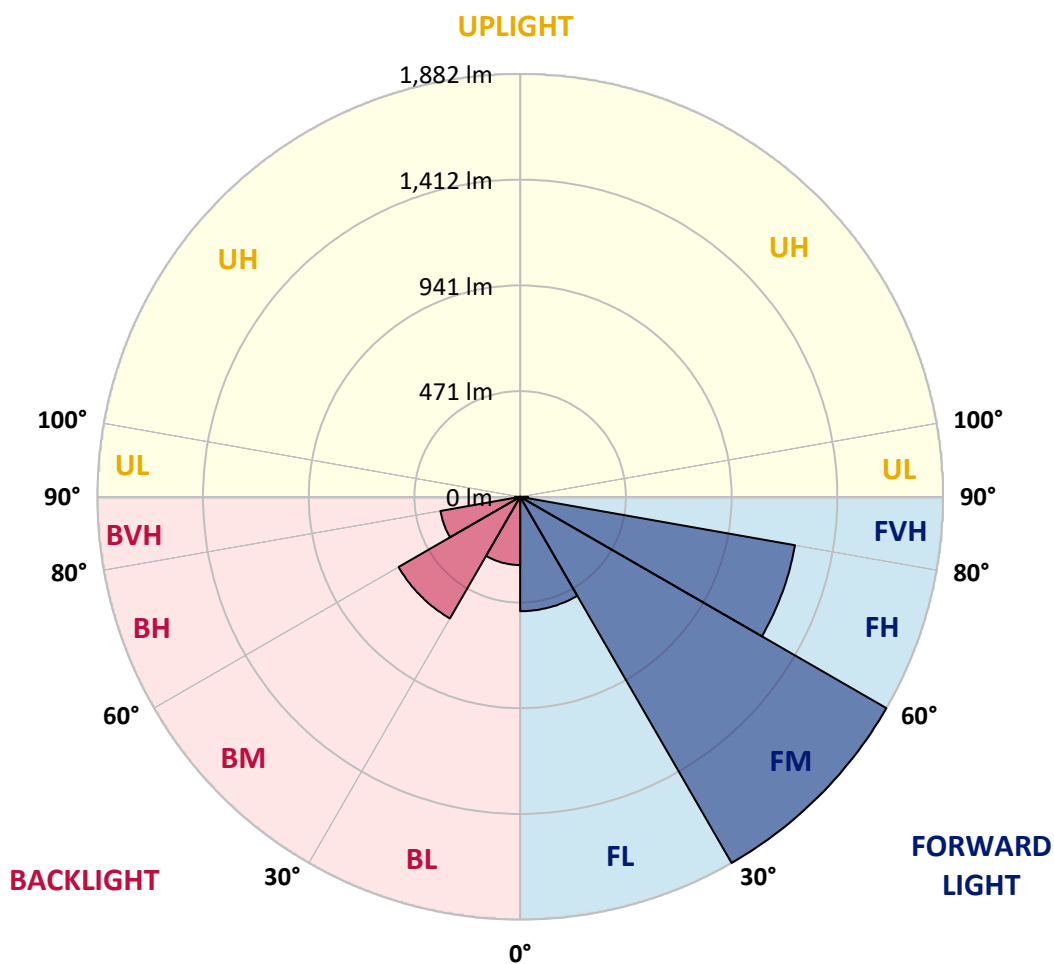
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.0	10.2			
FM (30°-60°)	1882.3	37.8			
FH (60°-80°)	1242.3	24.9			G1/1800
FVH (80°-90°)	34.6	0.7			G1/100
BL (0°-30°)	303.7	6.1	B1/500		
BM (30°-60°)	624.9	12.5	B1/1000		
BH (60°-80°)	360.6	7.2	B1/500		G1/500
BVH (80°-90°)	22.7	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°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	945.8	944.4	941.6	940.2	937.4	930.4	926.2	919.2	913.6	912.2	903.7
5°	992.2	993.6	992.2	987.9	982.3	972.5	958.5	940.2	931.8	929.0	915.0
7.5°	1035.7	1035.7	1034.3	1028.6	1023.0	1010.4	990.7	969.7	950.1	944.4	926.2
10°	1077.8	1077.8	1073.5	1067.9	1059.5	1044.1	1024.4	997.8	973.9	965.5	934.6
12.5°	1122.7	1121.3	1115.6	1107.2	1096.0	1083.4	1062.3	1032.8	1006.2	996.4	952.9
15°	1157.7	1157.7	1153.5	1147.9	1138.1	1122.7	1103.0	1077.8	1042.7	1034.3	978.1
17.5°	1188.6	1190.0	1187.2	1187.2	1178.8	1167.6	1150.7	1129.7	1096.0	1083.4	1016.0
20°	1213.9	1212.5	1218.1	1222.3	1225.1	1218.1	1208.3	1194.2	1160.5	1147.9	1065.1
22.5°	1225.1	1227.9	1244.7	1265.8	1278.4	1279.8	1278.4	1277.0	1247.6	1230.7	1132.5
25°	1230.7	1234.9	1260.2	1296.7	1324.7	1345.8	1368.2	1382.3	1355.6	1343.0	1233.5
27.5°	1236.3	1240.5	1270.0	1314.9	1368.2	1418.8	1463.7	1490.3	1470.7	1455.2	1337.4
30°	1226.5	1230.7	1264.4	1327.5	1403.3	1491.7	1554.9	1592.8	1590.0	1580.1	1456.7
32.5°	1205.5	1209.7	1247.6	1326.1	1439.8	1566.1	1636.3	1699.4	1712.1	1702.2	1575.9
35°	1167.6	1173.2	1216.7	1309.3	1456.7	1627.9	1721.9	1814.5	1846.8	1848.2	1706.4
37.5°	1115.6	1118.4	1171.8	1277.0	1462.3	1671.4	1793.4	1925.4	1991.3	1992.7	1839.8
40°	1045.5	1052.5	1118.4	1236.3	1449.6	1702.2	1865.0	2046.0	2133.1	2123.2	1984.3
42.5°	965.5	971.1	1035.7	1171.8	1420.2	1720.5	1931.0	2172.3	2287.4	2281.8	2120.4
45°	893.9	902.3	951.5	1082.0	1364.0	1724.7	1988.5	2298.6	2447.4	2440.4	2259.4
47.5°	798.5	819.5	885.5	1002.0	1279.8	1706.4	2040.4	2469.9	2624.2	2614.4	2405.3
50°	614.7	621.7	760.6	934.6	1184.4	1661.5	2085.3	2628.4	2795.4	2788.4	2558.3
52.5°	554.3	559.9	604.8	857.4	1089.0	1581.5	2112.0	2831.9	2966.6	2947.0	2695.8
55°	520.6	526.2	551.5	684.8	1006.2	1460.9	2117.6	3004.5	3105.6	3087.3	2824.9
57.5°	489.8	494.0	517.8	586.6	910.8	1293.9	2088.1	3143.4	3223.4	3205.2	2941.4
60°	457.5	461.7	487.0	533.3	792.9	1140.9	1991.3	3251.5	3323.1	3304.8	3046.6
62.5°	430.8	437.8	450.5	494.0	708.7	1021.6	1801.9	3278.2	3391.8	3384.8	3136.4
65°	398.5	401.4	421.0	456.1	625.9	938.8	1598.4	3201.0	3373.6	3386.2	3189.8
67.5°	362.1	363.5	381.7	407.0	523.4	857.4	1417.4	3097.1	3300.6	3321.7	3150.5
70°	312.9	314.3	331.2	357.8	433.6	743.8	1230.7	2944.2	3114.0	3133.6	2998.9
72.5°	261.0	261.0	275.1	304.5	357.8	616.1	985.1	2608.8	2913.3	2945.6	2751.9
75°	113.7	117.9	141.7	169.8	231.5	453.3	672.2	2019.4	2618.6	2641.1	2412.3
77.5°	30.9	30.9	36.5	47.7	67.4	202.1	213.3	888.3	1824.3	1881.9	1783.6
80°	25.3	25.3	28.1	36.5	46.3	99.6	71.6	286.3	564.1	743.8	924.8
82.5°	14.0	14.0	16.8	21.0	25.3	25.3	25.3	145.9	277.9	296.1	387.3
85°	7.0	8.4	8.4	9.8	9.8	8.4	8.4	29.5	53.3	60.3	92.6
87.5°	2.8	2.8	2.8	2.8	1.4	1.4	2.8	4.2	4.2	5.6	7.0
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°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	900.9	896.7	891.1	886.9	878.5	870.1	864.4	860.2	858.8	857.4	857.4
5°	906.5	899.5	884.1	868.7	856.0	844.8	835.0	828.0	825.2	823.8	823.8
7.5°	915.0	905.1	879.9	857.4	835.0	818.1	802.7	792.9	787.3	788.7	792.9
10°	919.2	903.7	870.1	847.6	818.1	791.5	773.2	762.0	757.8	757.8	756.4
12.5°	930.4	908.0	863.0	828.0	802.7	766.2	745.2	735.3	729.7	721.3	718.5
15°	947.2	919.2	860.2	813.9	774.6	742.4	714.3	700.3	696.0	684.8	684.8
17.5°	978.1	938.8	860.2	798.5	748.0	717.1	680.6	661.0	658.2	651.1	649.7
20°	1014.6	965.5	867.3	783.1	719.9	679.2	638.5	618.9	611.8	604.8	604.8
22.5°	1072.1	1006.2	879.9	771.8	690.4	639.9	595.0	566.9	555.7	554.3	551.5
25°	1160.5	1070.7	899.5	760.6	661.0	596.4	551.5	515.0	496.8	494.0	492.6
27.5°	1257.4	1159.1	938.8	750.8	628.7	547.3	494.0	454.7	432.2	429.4	428.0
30°	1361.2	1250.4	990.7	742.4	588.0	491.2	430.8	392.9	371.9	366.3	367.7
32.5°	1474.9	1348.6	1046.9	735.3	544.5	418.2	362.1	336.8	314.3	304.5	305.9
35°	1585.8	1435.6	1096.0	729.7	487.0	352.2	308.7	282.1	259.6	247.0	247.0
37.5°	1710.7	1538.0	1136.7	718.5	425.2	307.3	265.2	238.6	221.7	210.5	210.5
40°	1832.7	1640.5	1169.0	697.5	356.4	270.8	218.9	203.5	192.3	185.2	182.4
42.5°	1952.0	1742.9	1190.0	662.4	298.9	227.3	182.4	181.0	182.4	175.4	174.0
45°	2075.5	1844.0	1205.5	606.2	258.2	188.0	162.8	172.6	182.4	179.6	179.6
47.5°	2210.2	1942.2	1218.1	515.0	218.9	165.6	161.4	171.2	183.8	185.2	185.2
50°	2339.3	2041.8	1213.9	398.5	192.3	164.2	162.8	165.6	182.4	186.6	183.8
52.5°	2460.0	2127.4	1180.2	290.5	179.6	167.0	167.0	164.2	178.2	181.0	182.4
55°	2582.1	2207.4	1104.4	230.1	172.6	167.0	174.0	167.0	171.2	172.6	175.4
57.5°	2693.0	2288.8	992.2	206.3	171.2	167.0	174.0	169.8	169.8	164.2	162.8
60°	2778.6	2356.2	856.0	196.5	167.0	168.4	171.2	171.2	167.0	154.4	150.2
62.5°	2845.9	2412.3	669.4	183.8	164.2	165.6	164.2	169.8	160.0	141.7	137.5
65°	2883.8	2422.1	512.2	169.8	157.2	162.8	158.6	157.2	148.8	129.1	120.7
67.5°	2841.7	2353.4	357.8	155.8	148.8	158.6	151.6	145.9	136.1	117.9	106.7
70°	2678.9	2154.1	235.8	137.5	137.5	148.8	143.1	134.7	122.1	108.1	95.4
72.5°	2373.0	1856.6	141.7	113.7	122.1	136.1	133.3	122.1	85.6	66.0	57.5
75°	2006.8	1525.4	91.2	85.6	99.6	122.1	123.5	109.5	73.0	58.9	58.9
77.5°	1458.1	1002.0	53.3	47.7	66.0	98.2	105.2	80.0	78.6	109.5	80.0
80°	748.0	485.6	40.7	29.5	35.1	73.0	58.9	60.3	119.3	88.4	56.1
82.5°	324.2	192.3	25.3	21.0	22.5	36.5	37.9	99.6	92.6	51.9	35.1
85°	68.8	36.5	14.0	14.0	14.0	16.8	21.0	108.1	57.5	26.7	11.2
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	5.6	5.6	5.6	4.2	4.2
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)