

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: P507497

Luminaire Tested: **VERD-S-CA1-30-740-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507497
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-CA1-30-740-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 590mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4811.8 lumens
Efficiency: N/A
Efficacy: 141.5 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

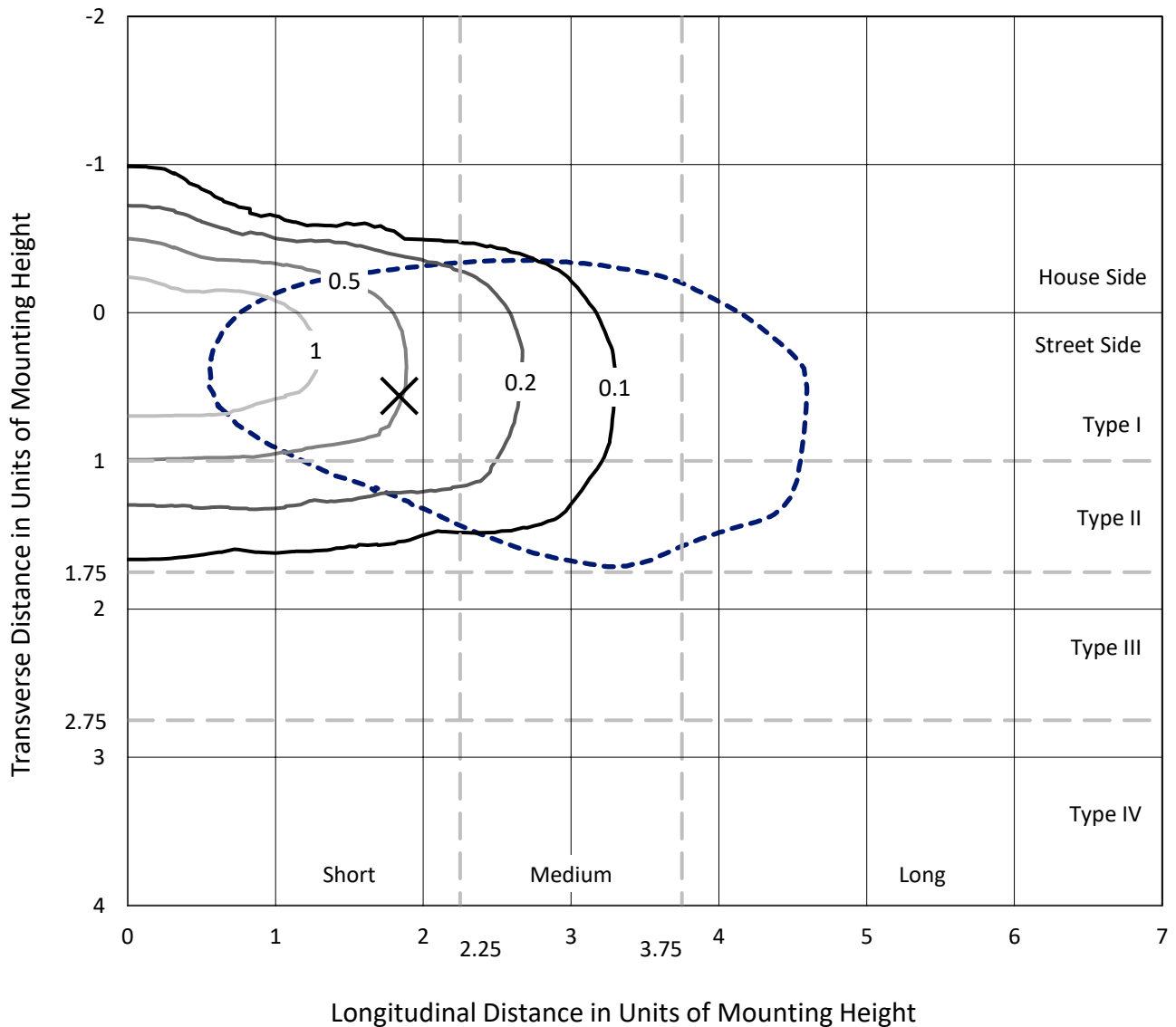
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

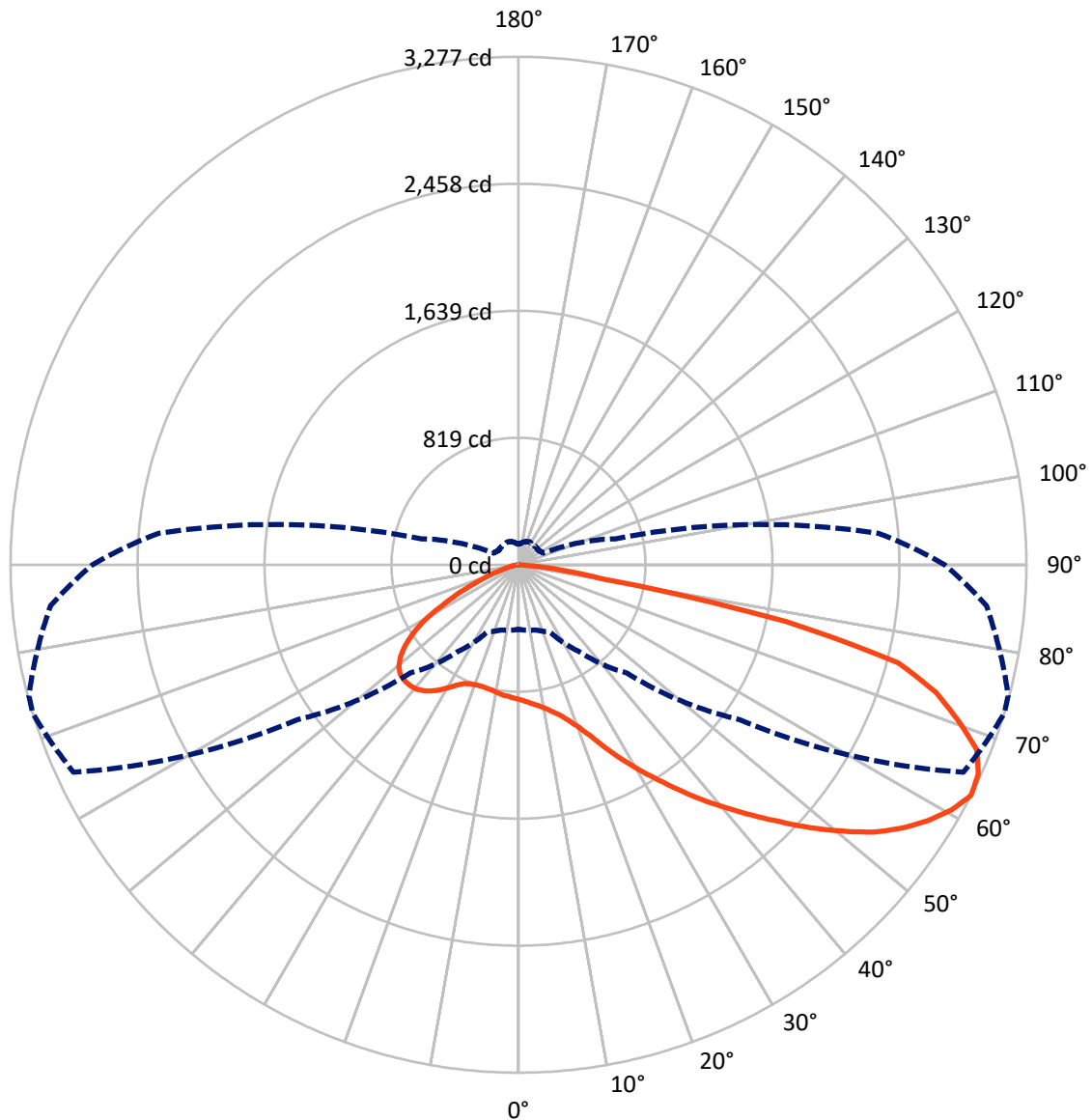
✕ Max cd
 - - - 1/2 Max cd



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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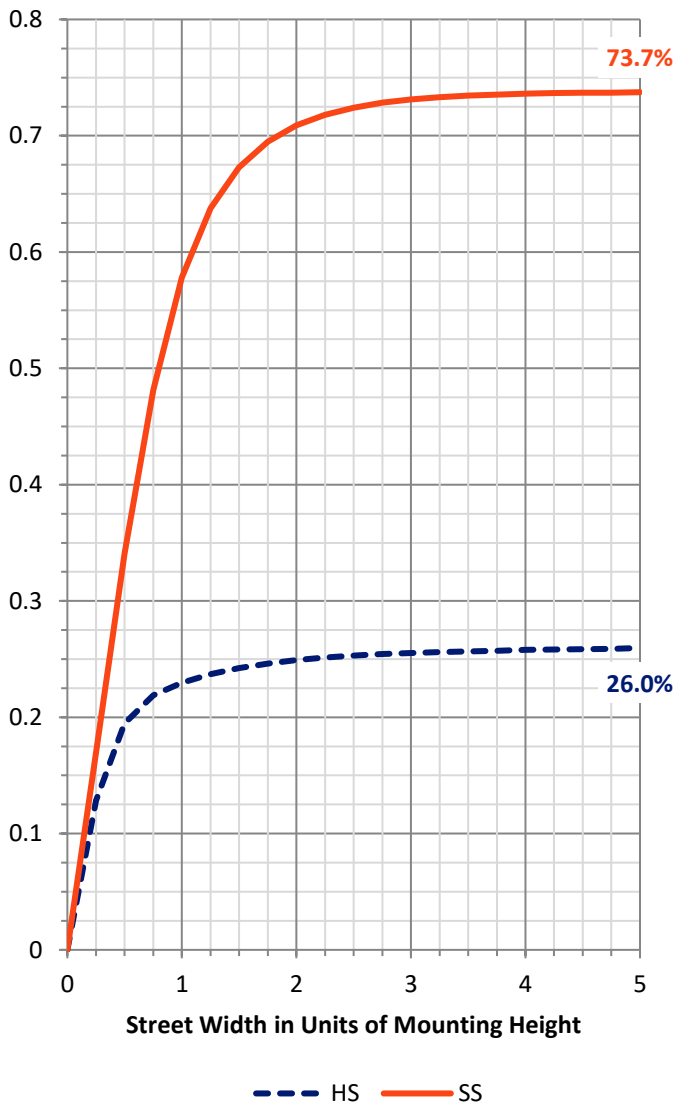
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1267.5	0.0	1267.5
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	3544.3	0.0	3544.3
	% Fixture	73.7	0.0	73.7
Total	Lumens	4811.8	0.0	4811.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.7
10°-20°	256.8	5.3
20°-30°	444.4	9.2
30°-40°	643.6	13.4
40°-50°	824.4	17.1
50°-60°	954.5	19.8
60°-70°	961.2	20.0
70°-80°	587.6	12.2
80°-90°	55.3	1.2
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°	4811.8	100.0
0°-180°	4811.8	100.0

Coefficient of Utilization

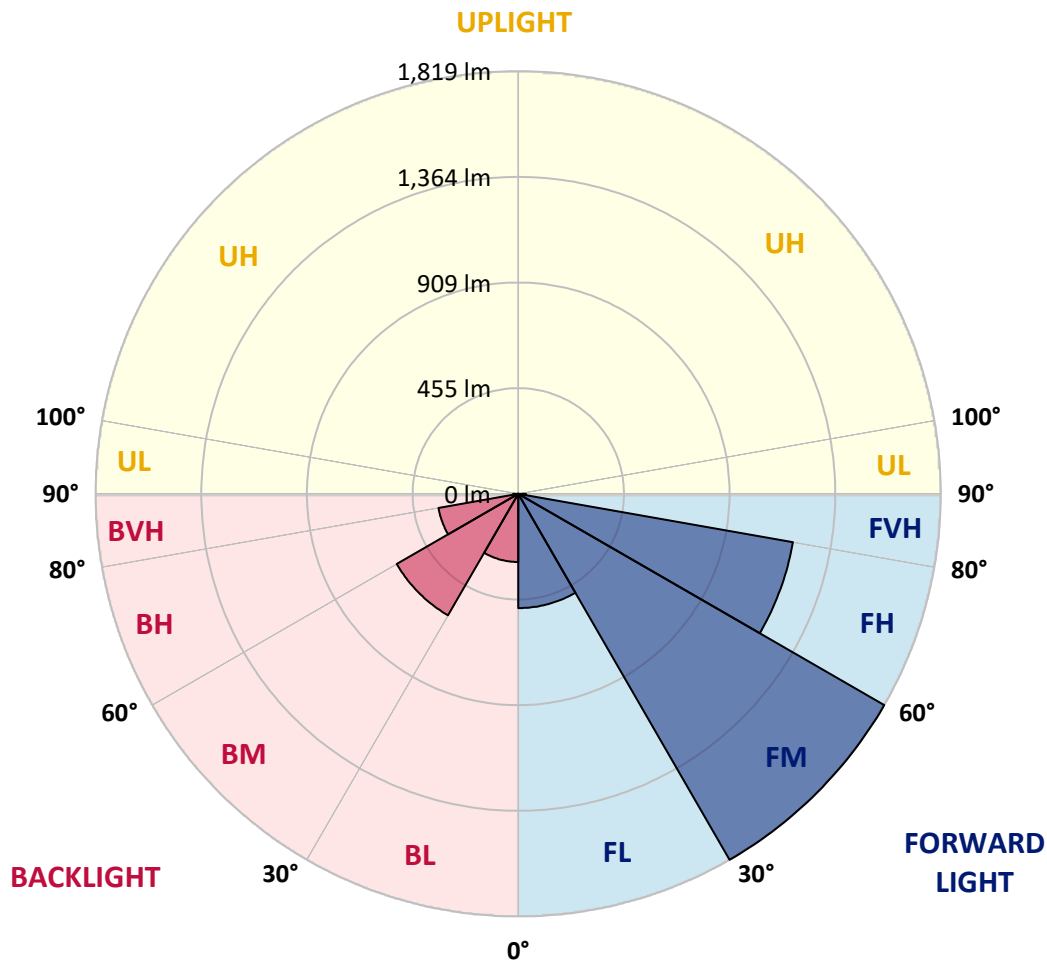


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.8	10.2			
FM (30°-60°)	1818.7	37.8			
FH (60°-80°)	1200.4	24.9			G1/1800
FVH (80°-90°)	33.4	0.7			G1/100
BL (0°-30°)	293.4	6.1	B1/500		
BM (30°-60°)	603.8	12.5	B1/1000		
BH (60°-80°)	348.4	7.2	B1/500		G1/500
BVH (80°-90°)	21.9	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°	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2
2.5°	913.9	912.5	909.8	908.5	905.8	899.0	894.9	888.1	882.7	881.4	873.2
5°	958.7	959.9	958.7	954.5	949.1	939.7	926.1	908.5	900.3	897.6	884.1
7.5°	1000.7	1000.7	999.3	993.9	988.5	976.3	957.3	936.9	917.9	912.5	894.9
10°	1041.4	1041.4	1037.3	1031.9	1023.7	1008.8	989.9	964.1	941.0	932.9	903.1
12.5°	1084.8	1083.4	1078.0	1069.8	1059.0	1046.8	1026.5	997.9	972.3	962.7	920.7
15°	1118.6	1118.6	1114.6	1109.2	1099.6	1084.8	1065.8	1041.4	1007.5	999.3	945.1
17.5°	1148.5	1149.8	1147.1	1147.1	1139.0	1128.2	1111.8	1091.6	1059.0	1046.8	981.7
20°	1172.9	1171.5	1176.9	1181.0	1183.7	1176.9	1167.4	1153.9	1121.4	1109.2	1029.1
22.5°	1183.7	1186.4	1202.7	1223.1	1235.3	1236.7	1235.3	1233.9	1205.4	1189.1	1094.2
25°	1189.1	1193.2	1217.7	1252.9	1280.0	1300.3	1322.0	1335.6	1309.8	1297.6	1191.9
27.5°	1194.6	1198.7	1227.1	1270.5	1322.0	1370.8	1414.2	1440.0	1421.0	1406.1	1292.2
30°	1185.1	1189.1	1221.7	1282.7	1356.0	1441.4	1502.3	1538.9	1536.3	1526.7	1407.4
32.5°	1164.8	1168.8	1205.4	1281.3	1391.2	1513.3	1581.0	1642.0	1654.2	1644.8	1522.7
35°	1128.2	1133.6	1175.6	1265.1	1407.4	1572.9	1663.8	1753.2	1784.4	1785.7	1648.8
37.5°	1078.0	1080.6	1132.2	1233.9	1412.8	1614.9	1732.9	1860.3	1924.0	1925.4	1777.7
40°	1010.1	1016.9	1080.6	1194.6	1400.6	1644.8	1802.1	1977.0	2061.1	2051.5	1917.2
42.5°	932.9	938.3	1000.7	1132.2	1372.2	1662.4	1865.8	2098.9	2210.2	2204.8	2048.8
45°	863.8	871.8	919.3	1045.4	1318.0	1666.4	1921.4	2221.0	2364.7	2357.9	2183.0
47.5°	771.5	791.8	855.6	968.1	1236.7	1648.8	1971.6	2386.5	2535.6	2526.1	2324.1
50°	593.9	600.7	734.9	903.1	1144.4	1605.4	2014.9	2539.6	2701.0	2694.2	2471.8
52.5°	535.6	541.0	584.4	828.4	1052.2	1528.1	2040.7	2736.2	2866.5	2847.5	2604.7
55°	503.0	508.5	532.8	661.7	972.3	1411.6	2046.1	2903.1	3000.6	2983.0	2729.5
57.5°	473.2	477.3	500.3	566.8	880.0	1250.1	2017.6	3037.2	3114.6	3097.0	2842.0
60°	442.1	446.1	470.5	515.2	766.1	1102.4	1924.0	3141.7	3210.9	3193.3	2943.7
62.5°	416.3	423.1	435.3	477.3	684.7	987.1	1741.0	3167.5	3277.3	3270.5	3030.5
65°	385.1	387.8	406.7	440.7	604.8	907.1	1544.5	3092.9	3259.6	3271.8	3082.0
67.5°	349.8	351.2	368.8	393.3	505.8	828.4	1369.4	2992.5	3189.1	3209.5	3044.0
70°	302.4	303.8	320.0	345.8	418.9	718.7	1189.1	2844.7	3008.8	3027.8	2897.7
72.5°	252.2	252.2	265.8	294.2	345.8	595.2	951.9	2520.6	2814.9	2846.1	2658.9
75°	109.9	113.9	136.9	164.1	223.7	437.9	649.5	1951.2	2530.2	2551.9	2330.9
77.5°	29.8	29.8	35.2	46.1	65.1	195.3	206.1	858.3	1762.7	1818.3	1723.4
80°	24.4	24.4	27.2	35.2	44.8	96.3	69.2	276.6	545.0	718.7	893.6
82.5°	13.6	13.6	16.2	20.4	24.4	24.4	24.4	141.1	268.4	286.2	374.3
85°	6.8	8.2	8.2	9.4	9.4	8.2	8.2	28.4	51.5	58.3	89.5
87.5°	2.8	2.8	2.8	2.8	1.4	1.4	2.8	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°	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2
2.5°	870.5	866.4	861.0	857.0	848.8	840.6	835.2	831.2	829.8	828.4	828.4
5°	876.0	869.2	854.2	839.4	827.2	816.2	806.8	800.0	797.3	796.0	796.0
7.5°	884.1	874.6	850.2	828.4	806.8	790.5	775.6	766.1	760.7	762.0	766.1
10°	888.1	873.2	840.6	819.0	790.5	764.7	747.1	736.3	732.2	732.2	730.9
12.5°	899.0	877.3	833.8	800.0	775.6	740.3	720.0	710.5	705.1	696.9	694.3
15°	915.3	888.1	831.2	786.4	748.5	717.3	690.1	676.6	672.5	661.7	661.7
17.5°	945.1	907.1	831.2	771.5	722.7	692.9	657.7	638.7	635.9	629.1	627.8
20°	980.3	932.9	838.0	756.6	695.5	656.3	617.0	598.0	591.2	584.4	584.4
22.5°	1035.9	972.3	850.2	745.8	667.1	618.3	575.0	547.8	537.0	535.6	532.8
25°	1121.4	1034.6	869.2	734.9	638.7	576.2	532.8	497.6	480.0	477.3	475.9
27.5°	1214.9	1120.0	907.1	725.5	607.4	528.8	477.3	439.3	417.7	414.9	413.5
30°	1315.3	1208.1	957.3	717.3	568.2	474.6	416.3	379.7	359.3	353.9	355.3
32.5°	1425.1	1303.1	1011.5	710.5	526.1	404.1	349.8	325.4	303.8	294.2	295.6
35°	1532.3	1387.2	1059.0	705.1	470.5	340.3	298.4	272.6	250.8	238.6	238.6
37.5°	1652.8	1486.1	1098.2	694.3	410.9	297.0	256.2	230.5	214.2	203.4	203.4
40°	1770.9	1585.1	1129.5	673.9	344.4	261.6	211.5	196.6	185.7	179.0	176.3
42.5°	1886.1	1684.0	1149.8	640.0	288.8	219.6	176.3	174.9	176.3	169.5	168.1
45°	2005.4	1781.7	1164.8	585.8	249.5	181.7	157.3	166.7	176.3	173.5	173.5
47.5°	2135.6	1876.6	1176.9	497.6	211.5	160.0	155.9	165.5	177.7	179.0	179.0
50°	2260.4	1972.9	1172.9	385.1	185.7	158.7	157.3	160.0	176.3	180.3	177.7
52.5°	2376.9	2055.5	1140.4	280.6	173.5	161.3	161.3	158.7	172.2	174.9	176.3
55°	2495.0	2132.9	1067.1	222.4	166.7	161.3	168.1	161.3	165.5	166.7	169.5
57.5°	2602.1	2211.6	958.7	199.3	165.5	161.3	168.1	164.1	164.1	158.7	157.3
60°	2684.7	2276.6	827.2	189.8	161.3	162.7	165.5	165.5	161.3	149.1	145.1
62.5°	2749.8	2330.9	646.8	177.7	158.7	160.0	158.7	164.1	154.5	136.9	132.9
65°	2786.4	2340.3	494.9	164.1	151.9	157.3	153.3	151.9	143.7	124.7	116.6
67.5°	2745.8	2273.9	345.8	150.5	143.7	153.3	146.5	141.1	131.5	113.9	103.1
70°	2588.5	2081.3	227.8	132.9	132.9	143.7	138.3	130.1	117.9	104.4	92.2
72.5°	2292.9	1793.9	136.9	109.9	117.9	131.5	128.9	117.9	82.7	63.7	55.6
75°	1939.0	1473.9	88.1	82.7	96.3	117.9	119.3	105.7	70.5	57.0	57.0
77.5°	1408.8	968.1	51.5	46.1	63.7	94.9	101.7	77.3	75.9	105.7	77.3
80°	722.7	469.1	39.4	28.4	33.9	70.5	57.0	58.3	115.3	85.4	54.2
82.5°	313.2	185.7	24.4	20.4	21.7	35.2	36.6	96.3	89.5	50.2	33.9
85°	66.4	35.2	13.6	13.6	13.6	16.2	20.4	104.4	55.6	25.8	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)