

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: P507499

Luminaire Tested: **VERD-S-CA1-30-740-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
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-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 590mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4776.2 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
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

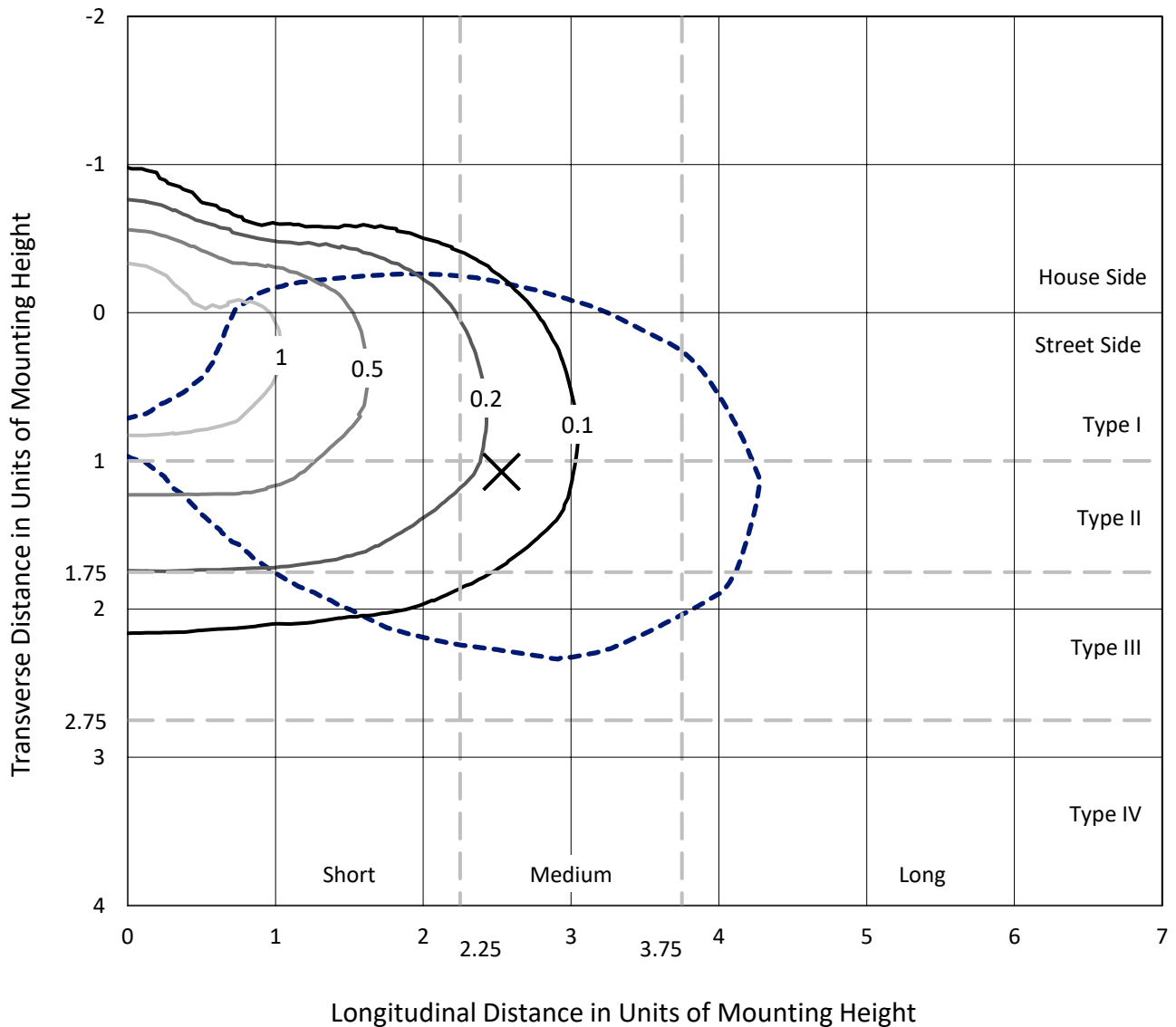




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Iso-Footcandle Lines of Horizontal Illumination

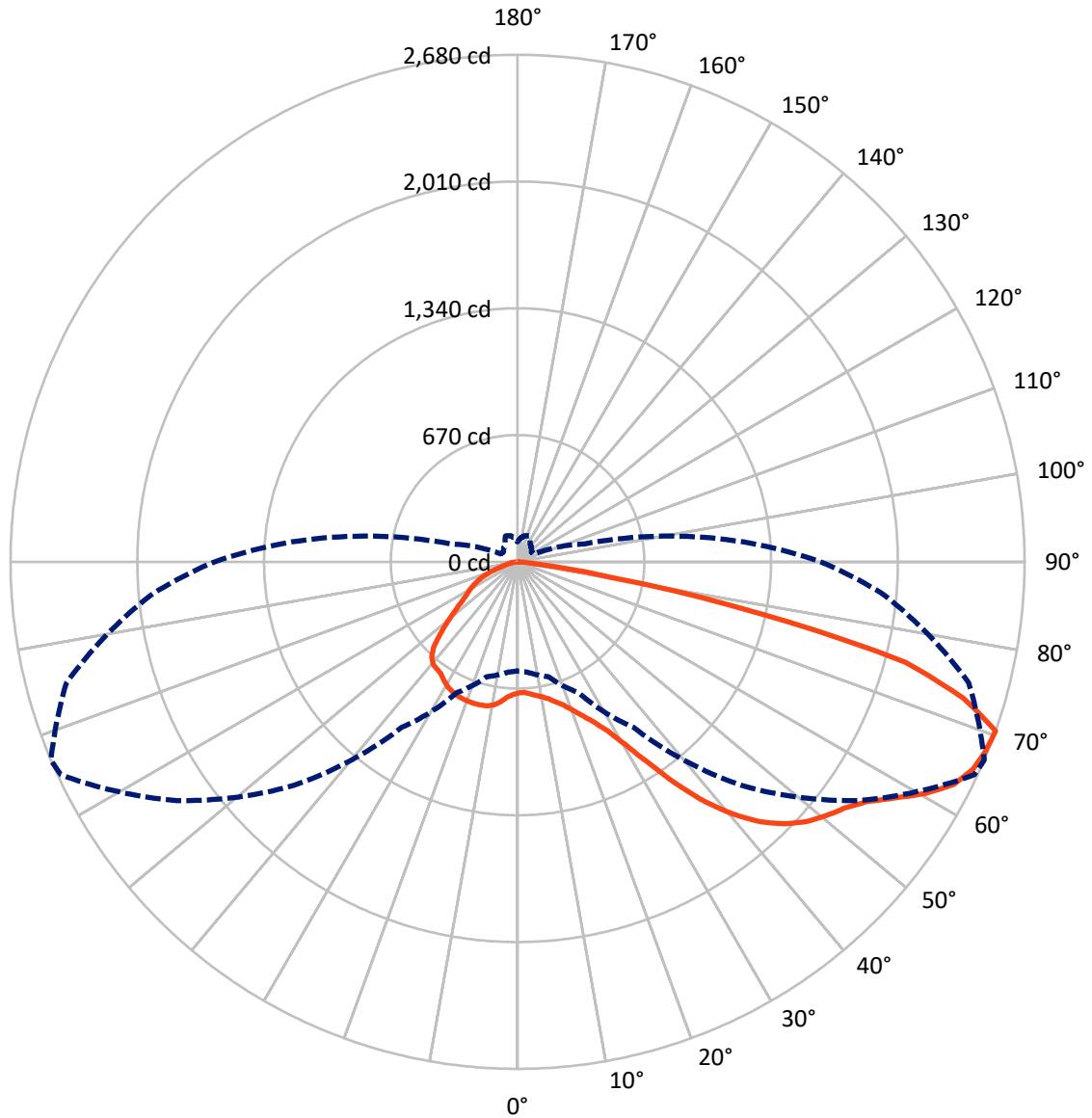
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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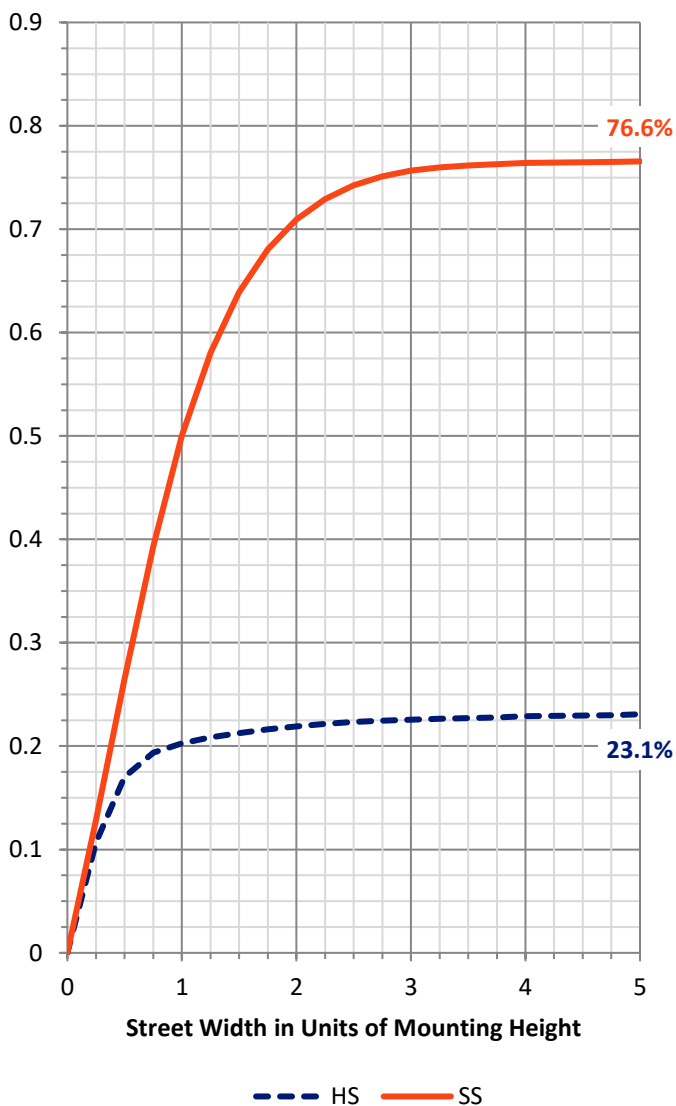
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.5	0.0	1117.5
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	3658.7	0.0	3658.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	4776.2	0.0	4776.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.5
10°-20°	226.4	4.7
20°-30°	399.3	8.4
30°-40°	612.1	12.8
40°-50°	834.3	17.5
50°-60°	987.2	20.7
60°-70°	1029.2	21.5
70°-80°	575.7	12.1
80°-90°	41.7	0.9
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°	4776.2	100.0
0°-180°	4776.2	100.0

Coefficient of Utilization

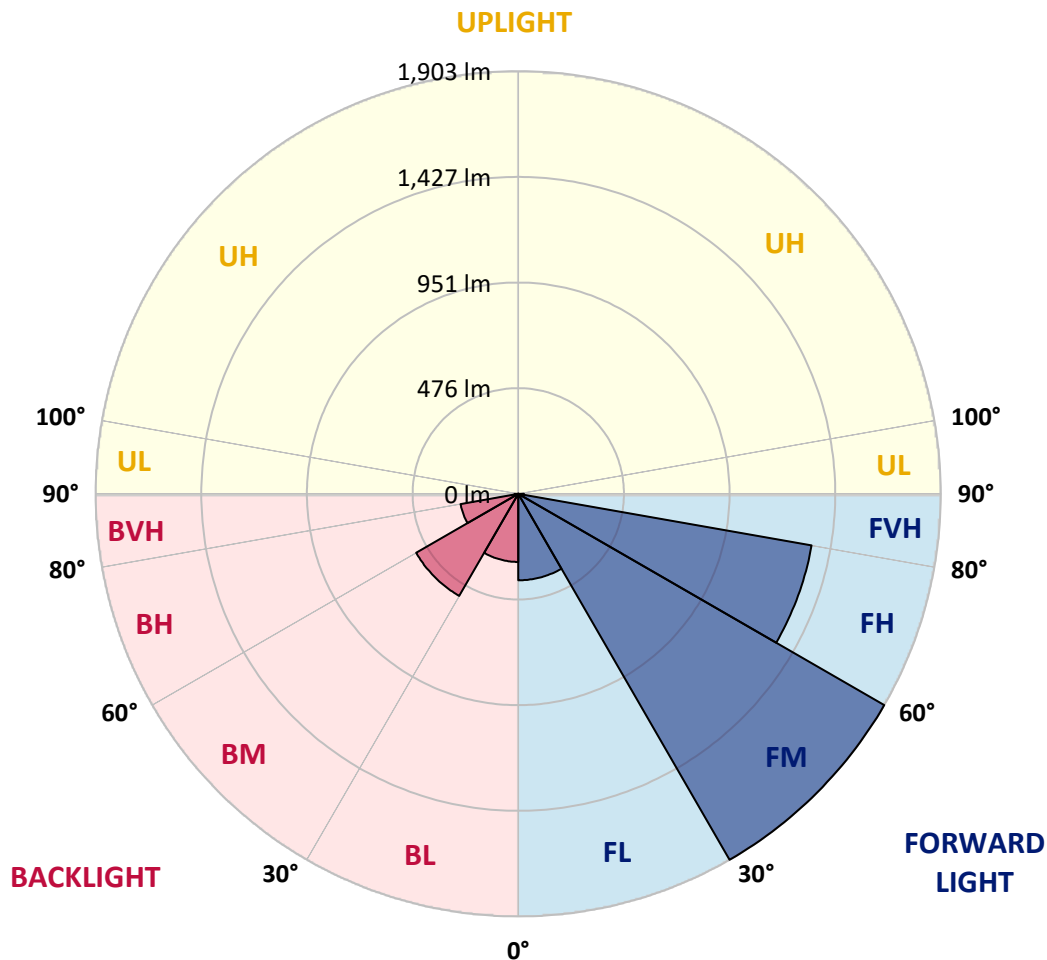


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	389.3	8.2			
FM (30°-60°)	1902.8	39.8			
FH (60°-80°)	1341.1	28.1			G1/1800
FVH (80°-90°)	25.5	0.5			G1/100
BL (0°-30°)	306.7	6.4	B1/500		
BM (30°-60°)	530.7	11.1	B1/1000		
BH (60°-80°)	263.9	5.5	B1/500		G1/500
BVH (80°-90°)	16.1	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	695.5	695.5	695.5	694.2	694.2	694.2	692.8	691.4	691.4	692.8	692.8
5°	713.1	713.1	711.8	710.4	707.7	705.0	702.3	700.9	700.9	700.9	702.3
7.5°	737.5	736.2	733.5	732.1	728.0	724.0	718.5	713.1	713.1	710.4	713.1
10°	767.3	767.3	763.3	760.5	755.1	744.3	736.2	728.0	726.7	724.0	728.0
12.5°	805.3	805.3	802.7	795.9	787.7	774.1	759.2	745.7	744.3	740.2	748.4
15°	851.4	847.3	846.0	840.5	825.7	808.1	787.7	770.1	770.1	763.3	772.7
17.5°	902.9	901.6	900.2	893.4	875.8	850.1	822.9	802.7	798.5	794.5	799.9
20°	965.2	964.0	962.6	951.8	931.4	900.2	867.7	840.5	837.9	833.8	829.7
22.5°	1037.2	1037.2	1031.7	1023.6	995.2	958.6	919.2	885.3	885.3	881.2	862.3
25°	1106.3	1103.5	1100.9	1091.3	1068.3	1029.0	983.0	943.6	938.2	938.2	905.6
27.5°	1170.0	1170.0	1174.1	1168.7	1145.7	1104.9	1058.8	1014.1	1011.4	1006.0	955.8
30°	1236.4	1239.2	1240.5	1240.5	1229.6	1198.5	1148.3	1114.5	1119.9	1106.3	1030.4
32.5°	1286.6	1289.4	1307.0	1323.2	1313.8	1296.0	1267.6	1256.8	1262.2	1273.0	1190.3
35°	1334.0	1338.1	1362.5	1396.4	1411.3	1403.2	1407.3	1426.3	1438.5	1481.9	1409.9
37.5°	1369.3	1373.4	1395.1	1437.1	1481.9	1504.9	1542.8	1584.8	1608.0	1663.5	1560.4
40°	1378.8	1385.6	1430.3	1487.3	1555.0	1624.2	1670.3	1724.5	1752.9	1778.7	1662.2
42.5°	1346.2	1353.0	1411.3	1530.6	1625.6	1731.3	1781.5	1856.0	1879.0	1864.2	1740.7
45°	1326.0	1330.0	1389.7	1526.6	1686.5	1834.3	1883.2	1961.8	1975.4	1938.8	1808.5
47.5°	1297.4	1301.6	1365.2	1519.8	1735.3	1923.8	1957.7	2035.0	2052.6	2001.1	1860.1
50°	1255.4	1260.8	1334.0	1507.6	1767.9	1984.8	2021.4	2101.5	2110.9	2056.7	1914.4
52.5°	1205.3	1213.4	1290.6	1481.9	1789.5	2024.1	2071.5	2154.3	2163.8	2128.5	1972.6
55°	1144.3	1152.3	1235.1	1443.9	1782.9	2036.3	2093.3	2222.0	2238.4	2209.8	2022.8
57.5°	1084.6	1090.0	1175.5	1388.3	1744.9	2055.3	2158.3	2331.9	2353.6	2294.0	2063.5
60°	1012.8	1025.0	1107.7	1312.4	1686.5	2074.3	2242.4	2463.4	2483.7	2375.3	2094.7
62.5°	938.2	949.0	1022.2	1217.4	1595.8	2056.7	2306.1	2577.2	2589.4	2440.3	2105.5
65°	851.4	852.7	920.6	1096.8	1465.5	1984.8	2311.6	2632.8	2645.1	2481.0	2086.5
67.5°	736.2	736.2	793.1	943.6	1290.6	1854.7	2262.8	2650.5	2668.1	2508.1	2040.4
70°	576.2	585.7	629.0	763.3	1068.3	1670.3	2200.4	2664.0	2680.3	2468.8	1936.0
72.5°	402.7	399.9	444.7	526.1	772.7	1332.7	1963.2	2464.7	2464.7	2268.2	1744.9
75°	123.3	138.3	158.7	212.9	352.5	893.4	1608.0	2089.3	2116.3	1964.4	1438.5
77.5°	40.6	40.6	47.4	58.3	75.9	189.8	803.9	1279.8	1301.6	1278.4	890.7
80°	32.6	32.6	36.6	42.0	48.8	97.6	283.4	479.9	515.2	568.1	368.8
82.5°	23.0	23.0	24.4	25.8	24.4	39.4	74.6	127.5	130.1	140.9	119.3
85°	15.0	13.6	13.6	12.2	10.8	10.8	9.4	9.4	10.8	10.8	13.6
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.0	4.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	694.2	695.5	699.6	702.3	705.0	707.7	709.0	710.4	710.4	711.8	711.8
5°	703.6	706.4	713.1	719.9	730.7	741.6	751.1	756.5	757.9	763.3	763.3
7.5°	715.8	719.9	736.2	748.4	764.7	776.9	787.7	793.1	798.5	801.3	801.3
10°	734.8	740.2	756.5	770.1	783.7	793.1	799.9	803.9	805.3	806.7	806.7
12.5°	753.8	760.5	770.1	780.9	789.1	794.5	798.5	799.9	799.9	799.9	799.9
15°	774.1	776.9	779.5	782.3	786.3	787.7	787.7	786.3	783.7	782.3	782.3
17.5°	794.5	791.7	787.7	782.3	776.9	772.7	767.3	761.9	757.9	755.1	756.5
20°	818.9	810.7	793.1	779.5	764.7	749.7	737.5	726.7	718.5	717.2	718.5
22.5°	847.3	831.1	802.7	774.1	748.4	721.3	695.5	680.6	672.4	665.6	665.6
25°	881.2	855.5	810.7	766.0	725.3	682.0	646.6	623.6	610.0	602.0	604.6
27.5°	920.6	888.0	818.9	753.8	691.4	634.4	588.4	551.8	536.9	526.1	527.4
30°	977.5	926.0	828.3	736.2	648.0	576.2	515.2	471.7	446.1	437.9	440.6
32.5°	1104.9	1007.4	839.2	710.4	599.2	507.1	425.7	372.8	345.8	345.8	344.4
35°	1317.8	1176.8	865.0	679.2	545.0	429.7	325.4	276.6	275.2	280.6	282.0
37.5°	1466.9	1332.7	945.0	649.4	485.3	336.2	241.3	227.8	241.3	246.7	245.4
40°	1563.2	1426.3	1037.2	618.2	401.3	241.3	191.1	181.7	195.3	206.1	214.2
42.5°	1641.8	1491.3	1079.1	577.6	299.6	173.5	140.9	138.3	158.7	173.5	178.9
45°	1704.2	1551.0	1084.6	520.6	203.3	128.8	115.3	127.5	151.9	164.1	165.5
47.5°	1754.3	1599.8	1069.7	429.7	135.5	112.5	112.5	128.8	151.9	164.1	164.1
50°	1803.1	1640.4	1031.7	349.8	122.0	109.8	113.9	130.1	150.5	159.9	159.9
52.5°	1843.8	1667.6	965.2	279.3	117.9	107.1	113.9	130.1	147.7	151.9	149.1
55°	1880.4	1678.4	905.6	225.1	113.9	105.7	116.6	132.9	146.5	146.5	140.9
57.5°	1900.8	1652.6	860.9	185.7	109.8	105.7	117.9	135.5	150.5	153.1	149.1
60°	1900.8	1616.0	812.1	164.1	107.1	105.7	117.9	145.1	178.9	165.5	164.1
62.5°	1875.0	1576.8	738.9	146.5	103.1	107.1	119.3	161.3	218.3	164.1	157.3
65°	1830.3	1500.8	642.6	130.1	99.0	108.5	117.9	185.7	260.3	158.7	139.7
67.5°	1746.2	1380.1	523.3	113.9	93.5	105.7	115.3	170.9	159.9	131.5	117.9
70°	1601.2	1199.8	363.4	99.0	89.5	103.1	115.3	150.5	142.3	120.7	105.7
72.5°	1385.6	984.2	195.3	81.3	78.6	97.6	112.5	138.3	122.0	99.0	89.5
75°	1064.3	699.6	119.3	63.7	65.1	86.8	104.4	131.5	116.6	94.9	82.7
77.5°	614.2	324.0	85.4	47.4	46.1	69.2	93.5	122.0	113.9	92.2	80.0
80°	225.1	134.3	58.3	35.2	31.2	50.2	73.2	99.0	108.5	90.8	81.3
82.5°	96.3	71.8	38.0	24.4	23.0	28.4	44.8	69.2	90.8	73.2	67.8
85°	13.6	13.6	13.6	12.2	13.6	17.6	19.0	33.9	50.2	27.2	27.2
87.5°	5.4	5.4	5.4	5.4	6.8	6.8	5.4	5.4	4.0	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)