

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: P507539

Luminaire Tested: **VERD-S-CA1-40-730-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507539
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-CA1-40-730-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 760mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5955 lumens
Efficiency: N/A
Efficacy: 137.2 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): 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

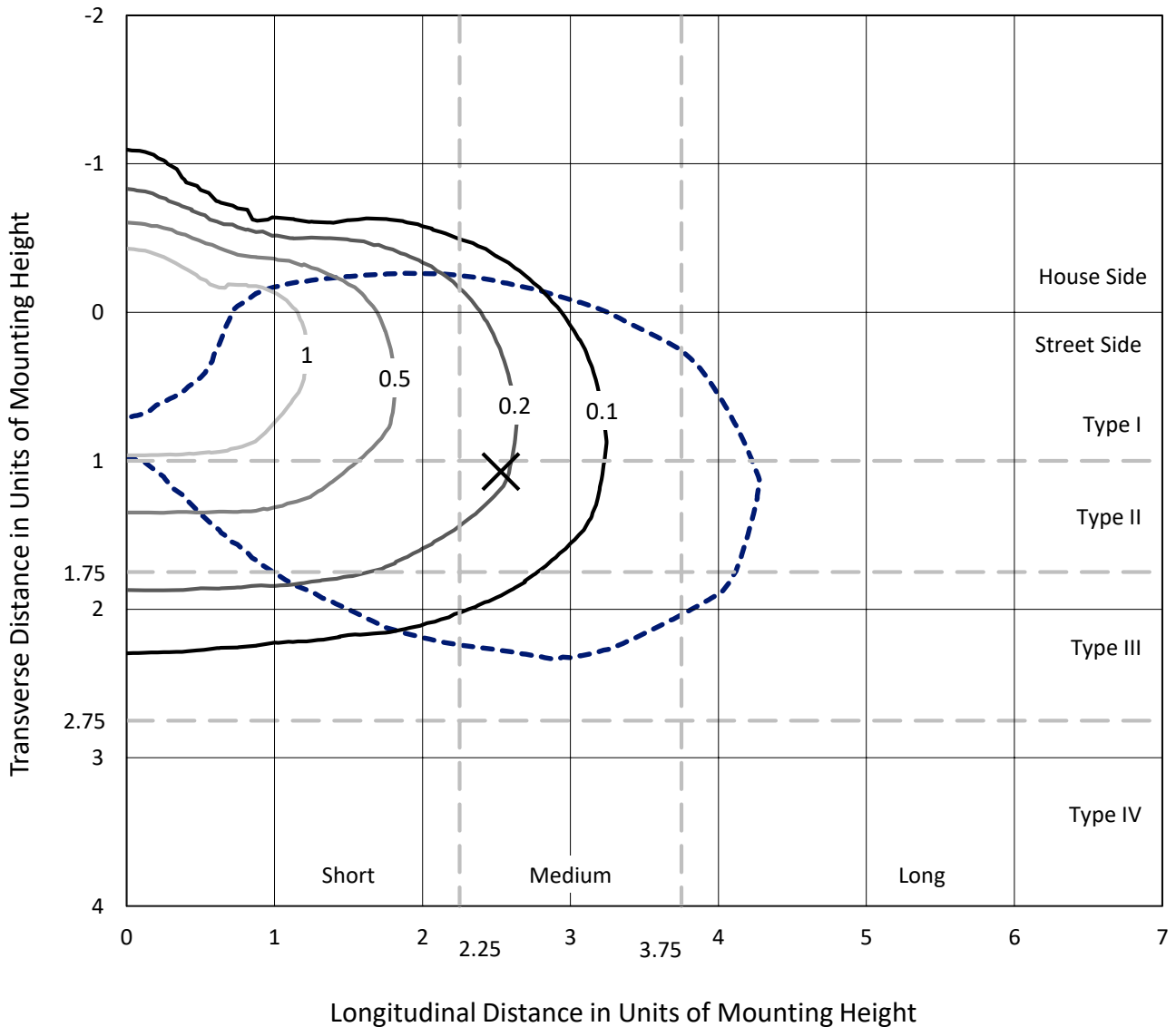


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Iso-Footcandle Lines of Horizontal Illumination

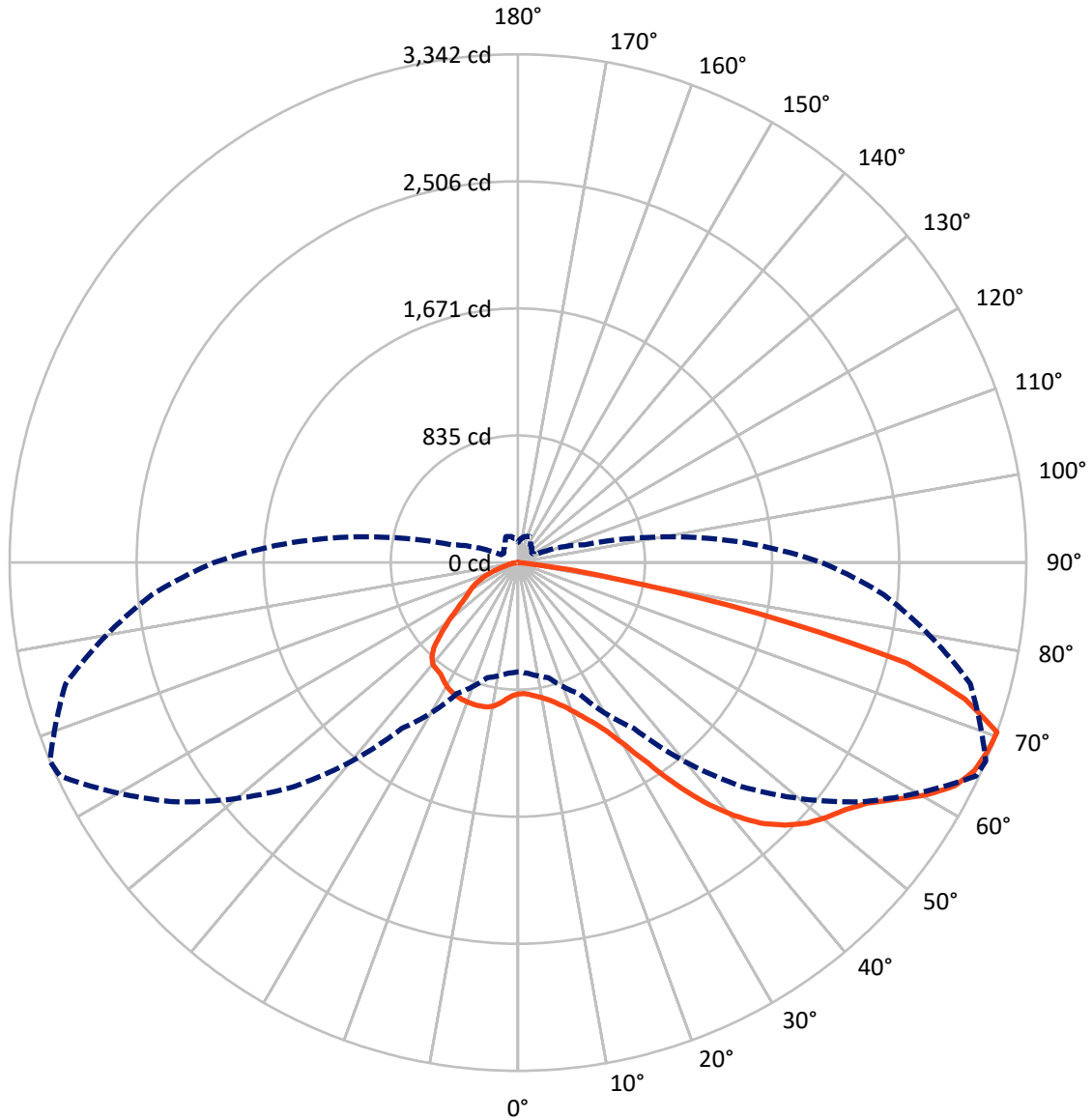
× Max cd
 - - - 1/2 Max cd



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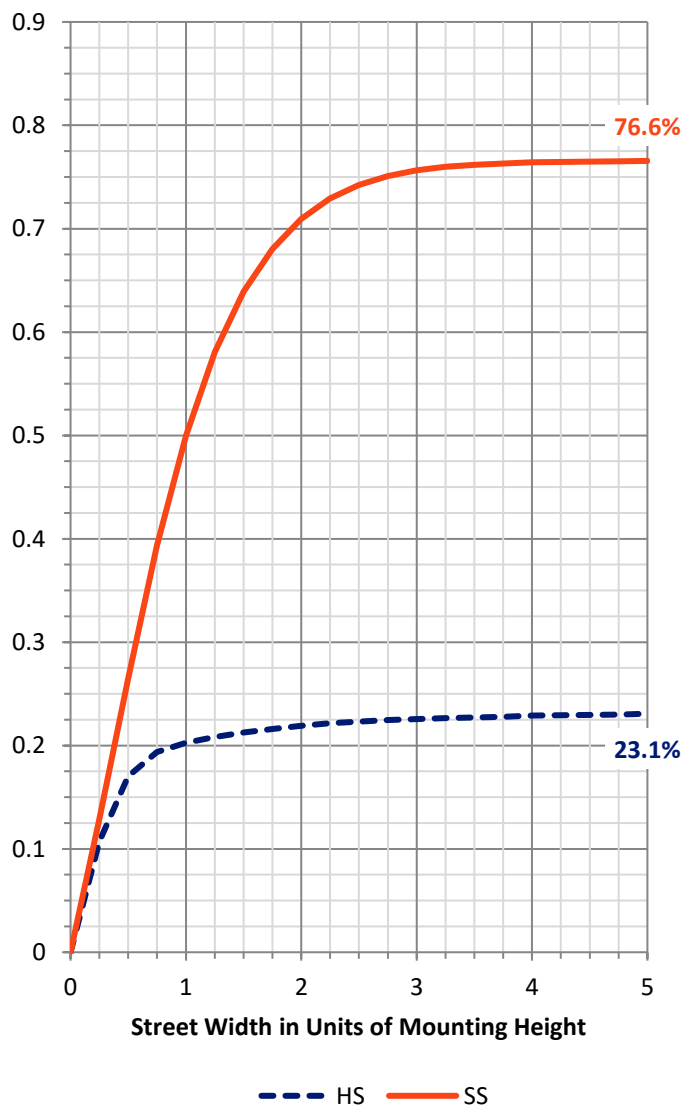
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1393.3	0.0	1393.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	4561.7	0.0	4561.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	5955.0	0.0	5955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.5
10°-20°	282.3	4.7
20°-30°	497.8	8.4
30°-40°	763.1	12.8
40°-50°	1040.2	17.5
50°-60°	1230.9	20.7
60°-70°	1283.2	21.5
70°-80°	717.8	12.1
80°-90°	51.9	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°	5955.0	100.0
0°-180°	5955.0	100.0

Coefficient of Utilization



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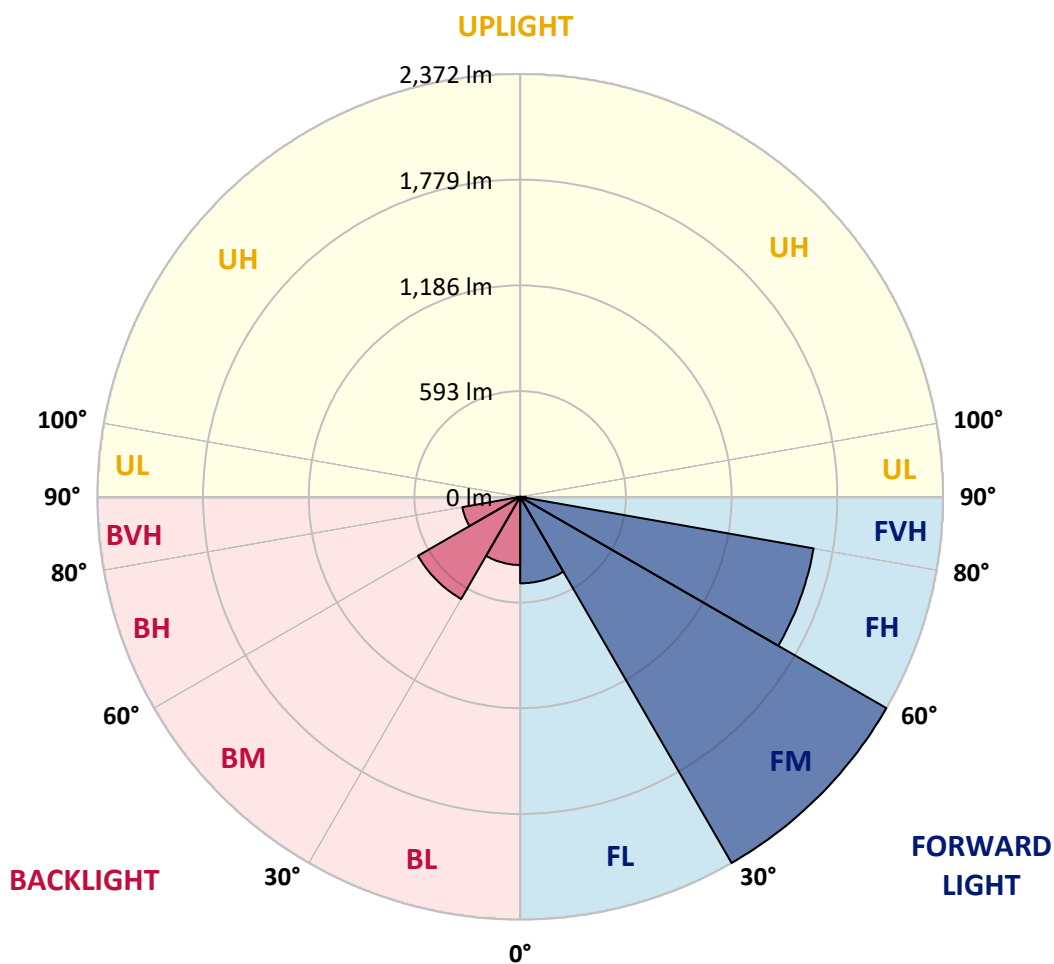
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.4	8.2			
FM (30°-60°)	2372.4	39.8			
FH (60°-80°)	1672.1	28.1			G1/1800
FVH (80°-90°)	31.8	0.5			G1/100
BL (0°-30°)	382.5	6.4	B1/500		
BM (30°-60°)	661.7	11.1	B1/1000		
BH (60°-80°)	329.0	5.5	B1/500		G1/500
BVH (80°-90°)	20.1	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°	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8
2.5°	867.2	867.2	867.2	865.5	865.5	865.5	863.8	862.1	862.1	863.8	863.8
5°	889.1	889.1	887.4	885.8	882.4	879.0	875.6	873.9	873.9	873.9	875.6
7.5°	919.6	917.9	914.5	912.8	907.7	902.7	895.9	889.1	889.1	885.8	889.1
10°	956.8	956.8	951.7	948.3	941.5	928.0	917.9	907.7	906.0	902.7	907.7
12.5°	1004.1	1004.1	1000.7	992.2	982.1	965.2	946.6	929.7	928.0	922.9	933.1
15°	1061.6	1056.5	1054.8	1048.0	1029.4	1007.5	982.1	960.1	960.1	951.7	963.5
17.5°	1125.8	1124.1	1122.4	1114.0	1092.0	1059.9	1026.1	1000.7	995.6	990.6	997.3
20°	1203.5	1201.9	1200.2	1186.6	1161.3	1122.4	1081.8	1048.0	1044.7	1039.6	1034.5
22.5°	1293.1	1293.1	1286.4	1276.2	1240.7	1195.1	1146.1	1103.8	1103.8	1098.7	1075.1
25°	1379.3	1376.0	1372.6	1360.8	1332.0	1283.0	1225.5	1176.5	1169.7	1169.7	1129.2
27.5°	1458.8	1458.8	1463.9	1457.1	1428.4	1377.7	1320.2	1264.4	1261.0	1254.3	1191.7
30°	1541.6	1545.0	1546.7	1546.7	1533.2	1494.3	1431.7	1389.5	1396.2	1379.3	1284.7
32.5°	1604.2	1607.5	1629.5	1649.8	1638.0	1616.0	1580.5	1567.0	1573.7	1587.3	1484.1
35°	1663.3	1668.4	1698.8	1741.1	1759.7	1749.5	1754.6	1778.3	1793.5	1847.6	1758.0
37.5°	1707.3	1712.3	1739.4	1791.8	1847.6	1876.3	1923.6	1976.0	2004.8	2074.1	1945.6
40°	1719.1	1727.6	1783.3	1854.3	1938.9	2025.1	2082.5	2150.2	2185.7	2217.8	2072.4
42.5°	1678.5	1687.0	1759.7	1908.4	2026.8	2158.6	2221.2	2314.1	2342.9	2324.3	2170.4
45°	1653.2	1658.3	1732.6	1903.4	2102.8	2287.1	2347.9	2446.0	2462.9	2417.2	2255.0
47.5°	1617.7	1622.8	1702.2	1894.9	2163.7	2398.6	2440.9	2537.3	2559.2	2495.0	2319.2
50°	1565.3	1572.0	1663.3	1879.7	2204.2	2474.7	2520.3	2620.1	2631.9	2564.3	2386.8
52.5°	1502.7	1512.9	1609.2	1847.6	2231.3	2523.7	2582.9	2686.0	2697.8	2653.9	2459.5
55°	1426.7	1436.8	1539.9	1800.2	2222.8	2538.9	2609.9	2770.5	2790.8	2755.3	2522.0
57.5°	1352.3	1359.1	1465.6	1730.9	2175.5	2562.6	2691.1	2907.4	2934.5	2860.1	2572.7
60°	1262.7	1277.9	1381.0	1636.3	2102.8	2586.3	2795.9	3071.4	3096.8	2961.5	2611.6
62.5°	1169.7	1183.3	1274.5	1518.0	1989.6	2564.3	2875.3	3213.4	3228.6	3042.7	2625.2
65°	1061.6	1063.2	1147.8	1367.5	1827.3	2474.7	2882.1	3282.7	3297.9	3093.4	2601.5
67.5°	917.9	917.9	988.9	1176.5	1609.2	2312.4	2821.2	3304.7	3326.7	3127.2	2544.0
70°	718.4	730.2	784.3	951.7	1332.0	2082.5	2743.5	3321.6	3341.9	3078.2	2413.9
72.5°	502.0	498.7	554.4	655.9	963.5	1661.6	2447.7	3073.1	3073.1	2828.0	2175.5
75°	153.8	172.4	197.8	265.4	439.5	1114.0	2004.8	2604.9	2638.7	2449.4	1793.5
77.5°	50.7	50.7	59.2	72.7	94.7	236.7	1002.4	1595.7	1622.8	1594.0	1110.6
80°	40.6	40.6	45.6	52.4	60.9	121.7	353.3	598.4	642.3	708.3	459.8
82.5°	28.7	28.7	30.4	32.1	30.4	49.0	93.0	158.9	162.3	175.8	148.8
85°	18.6	16.9	16.9	15.2	13.5	13.5	11.8	11.8	13.5	13.5	16.9
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1
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°	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8
2.5°	865.5	867.2	872.2	875.6	879.0	882.4	884.1	885.8	885.8	887.4	887.4
5°	877.3	880.7	889.1	897.6	911.1	924.6	936.5	943.2	944.9	951.7	951.7
7.5°	892.5	897.6	917.9	933.1	953.4	968.6	982.1	988.9	995.6	999.0	999.0
10°	916.2	922.9	943.2	960.1	977.0	988.9	997.3	1002.4	1004.1	1005.8	1005.8
12.5°	939.8	948.3	960.1	973.7	983.8	990.6	995.6	997.3	997.3	997.3	997.3
15°	965.2	968.6	972.0	975.3	980.4	982.1	982.1	980.4	977.0	975.3	975.3
17.5°	990.6	987.2	982.1	975.3	968.6	963.5	956.8	950.0	944.9	941.5	943.2
20°	1021.0	1010.8	988.9	972.0	953.4	934.8	919.6	906.0	895.9	894.2	895.9
22.5°	1056.5	1036.2	1000.7	965.2	933.1	899.3	867.2	848.6	838.4	830.0	830.0
25°	1098.7	1066.6	1010.8	955.1	904.3	850.3	806.3	777.6	760.7	750.5	753.9
27.5°	1147.8	1107.2	1021.0	939.8	862.1	791.1	733.6	688.0	669.4	655.9	657.6
30°	1218.8	1154.5	1032.8	917.9	808.0	718.4	642.3	588.3	556.1	546.0	549.4
32.5°	1377.7	1255.9	1046.3	885.8	747.1	632.2	530.8	464.9	431.0	431.0	429.4
35°	1643.0	1467.2	1078.5	846.9	679.5	535.8	405.7	344.8	343.1	349.9	351.6
37.5°	1829.0	1661.6	1178.2	809.7	605.2	419.2	300.9	284.0	300.9	307.6	306.0
40°	1949.0	1778.3	1293.1	770.8	500.4	300.9	238.3	226.5	243.4	256.9	267.1
42.5°	2047.0	1859.4	1345.5	720.1	373.6	216.4	175.8	172.4	197.8	216.4	223.1
45°	2124.8	1933.8	1352.3	649.1	253.6	160.6	143.7	158.9	189.3	204.5	206.2
47.5°	2187.3	1994.6	1333.7	535.8	169.0	140.3	140.3	160.6	189.3	204.5	204.5
50°	2248.2	2045.4	1286.4	436.1	152.1	136.9	142.0	162.3	187.6	199.5	199.5
52.5°	2298.9	2079.2	1203.5	348.2	147.1	133.5	142.0	162.3	184.3	189.3	185.9
55°	2344.5	2092.7	1129.2	280.6	142.0	131.8	145.4	165.7	182.6	182.6	175.8
57.5°	2369.9	2060.6	1073.4	231.6	136.9	131.8	147.1	169.0	187.6	191.0	185.9
60°	2369.9	2014.9	1012.5	204.5	133.5	131.8	147.1	180.9	223.1	206.2	204.5
62.5°	2337.8	1965.9	921.3	182.6	128.5	133.5	148.8	201.2	272.2	204.5	196.1
65°	2282.0	1871.2	801.2	162.3	123.4	135.2	147.1	231.6	324.6	197.8	174.1
67.5°	2177.2	1720.8	652.5	142.0	116.6	131.8	143.7	213.0	199.5	164.0	147.1
70°	1996.3	1496.0	453.0	123.4	111.6	128.5	143.7	187.6	177.5	150.4	131.8
72.5°	1727.6	1227.2	243.4	101.4	98.0	121.7	140.3	172.4	152.1	123.4	111.6
75°	1326.9	872.2	148.8	79.4	81.1	108.2	130.2	164.0	145.4	118.3	103.1
77.5°	765.7	404.0	106.5	59.2	57.5	86.2	116.6	152.1	142.0	114.9	99.7
80°	280.6	167.3	72.7	43.9	38.9	62.5	91.3	123.4	135.2	113.3	101.4
82.5°	120.0	89.6	47.3	30.4	28.7	35.5	55.8	86.2	113.3	91.3	84.5
85°	16.9	16.9	16.9	15.2	16.9	22.0	23.7	42.3	62.5	33.8	33.8
87.5°	6.8	6.8	6.8	6.8	8.5	8.5	6.8	6.8	5.1	5.1	5.1
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)