

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: P507532

Luminaire Tested: **VERD-S-CA1-40-727-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-40-727-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 760mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4611 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

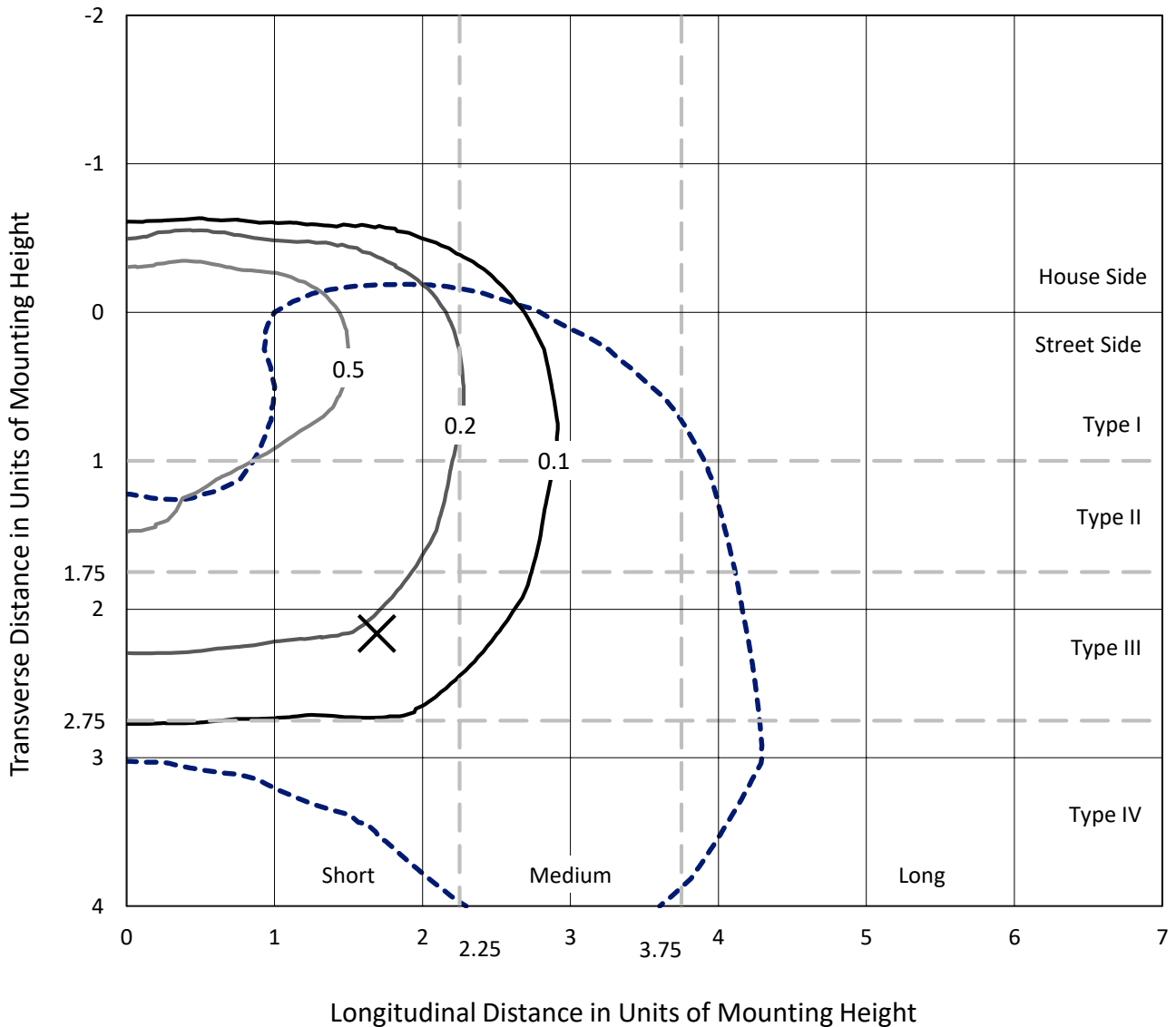
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

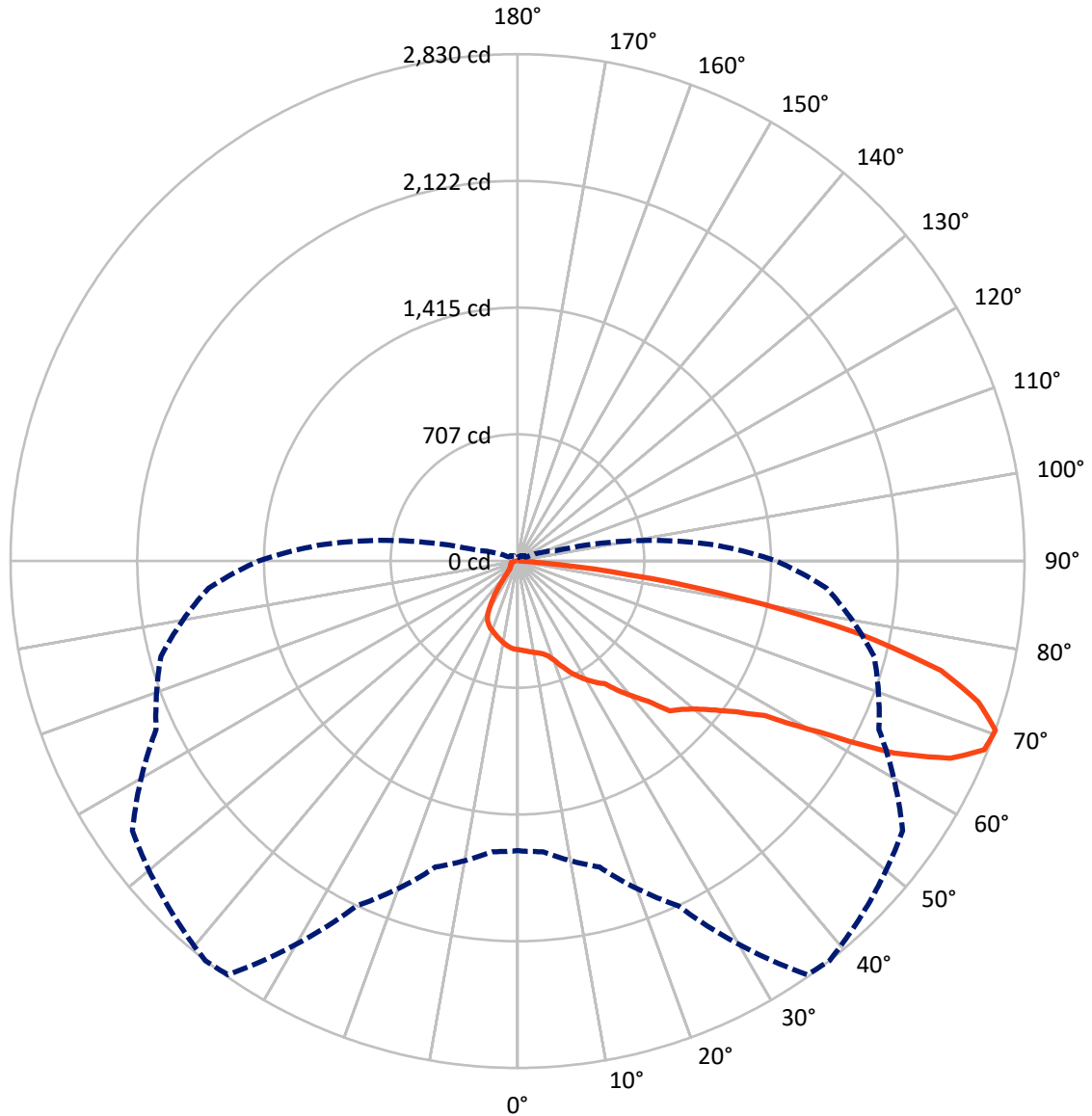
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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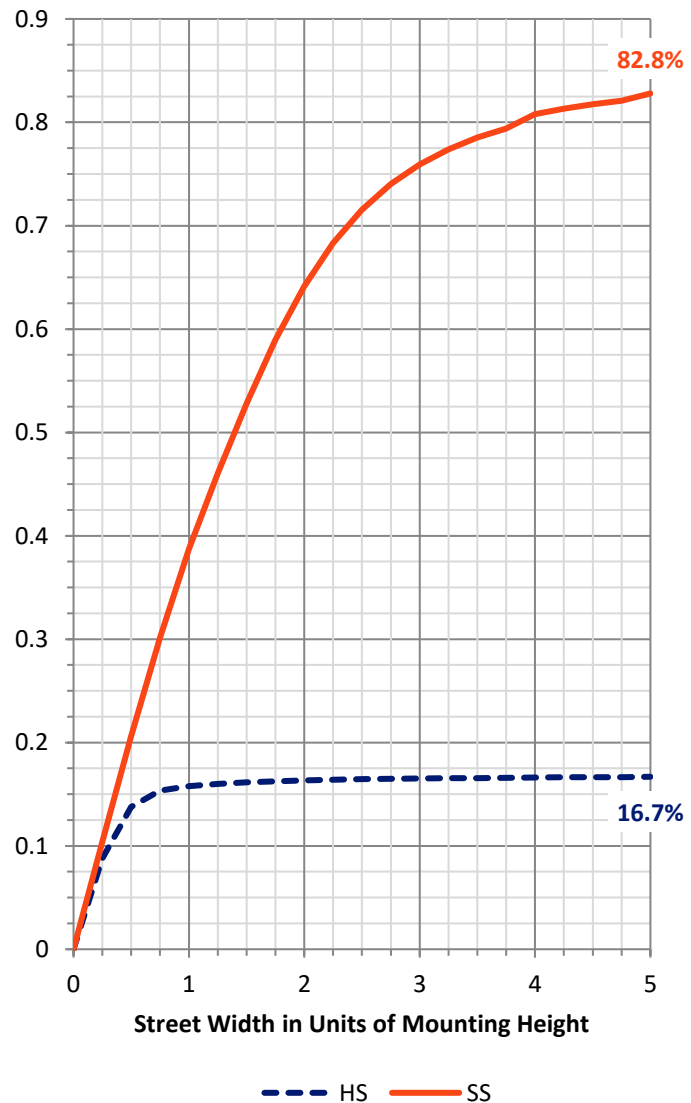
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	780.1	0.0	780.1
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	3830.9	0.0	3830.9
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	4611.0	0.0	4611.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.3	1.0
10°-20°	143.2	3.1
20°-30°	263.6	5.7
30°-40°	412.7	9.0
40°-50°	627.0	13.6
50°-60°	901.5	19.6
60°-70°	1211.1	26.3
70°-80°	897.3	19.5
80°-90°	107.3	2.3
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°	4611.0	100.0
0°-180°	4611.0	100.0



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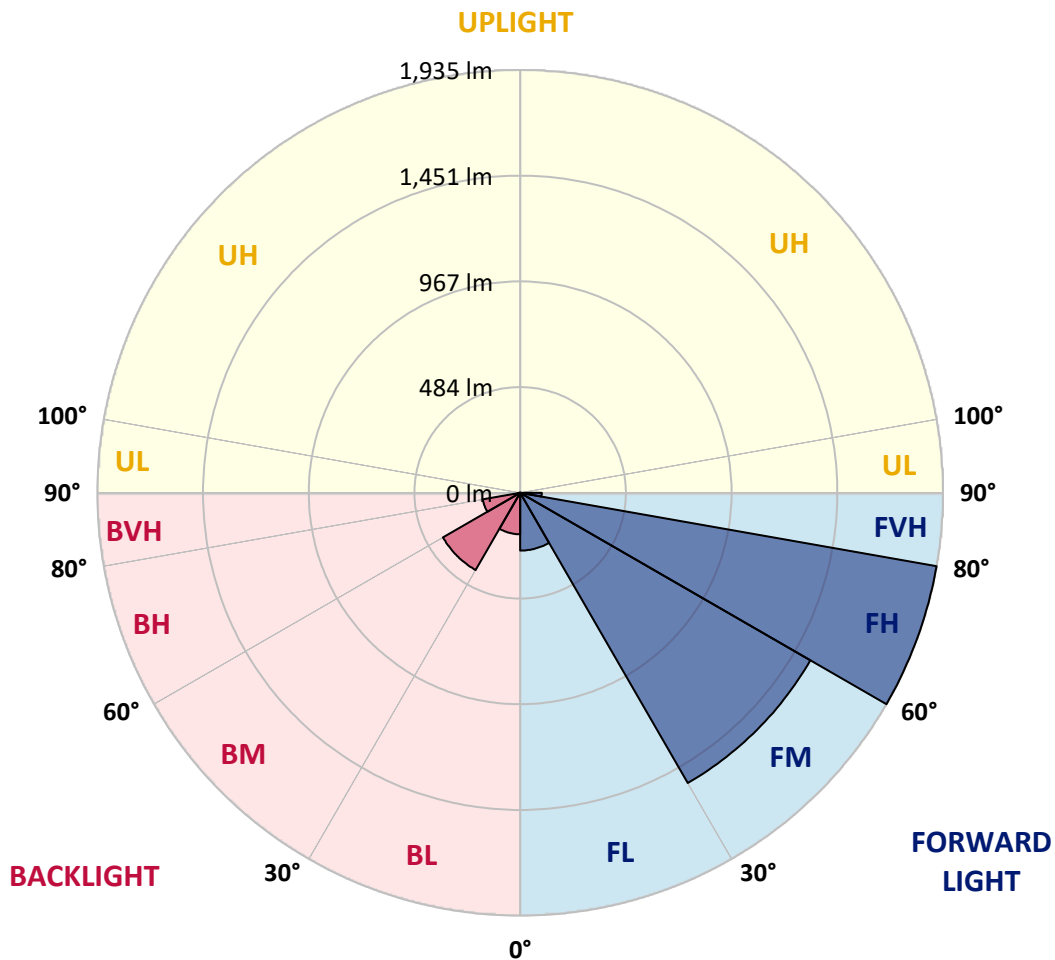
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.4	5.7			
FM	(30°-60°)	1533.1	33.2			
FH	(60°-80°)	1934.7	42.0			G2/5000
FVH	(80°-90°)	98.7	2.1			G1/100
BL	(0°-30°)	189.7	4.1	B1/500		
BM	(30°-60°)	408.1	8.8	B1/1000		
BH	(60°-80°)	173.7	3.8	B1/500		G1/500
BVH	(80°-90°)	8.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2
2.5°	501.5	501.5	501.5	500.1	500.1	498.6	498.6	497.1	497.1	495.7	494.2
5°	508.8	508.8	507.4	505.9	504.4	504.4	504.4	503.0	500.1	500.1	497.1
7.5°	511.7	511.7	511.7	511.7	511.7	511.7	511.7	510.3	508.8	507.4	504.4
10°	513.2	513.2	514.6	514.6	517.6	519.0	519.0	520.5	519.0	516.1	513.2
12.5°	517.6	519.0	519.0	520.5	524.8	526.3	527.8	532.1	532.1	529.2	526.3
15°	526.3	526.3	527.8	530.7	536.5	538.0	542.3	546.7	549.6	546.7	543.8
17.5°	552.5	552.5	552.5	552.5	555.5	556.9	562.8	570.0	573.0	573.0	571.5
20°	605.0	605.0	602.1	596.3	593.4	593.4	591.9	594.8	600.7	605.0	606.5
22.5°	664.8	663.3	661.9	653.1	642.9	640.0	637.1	634.2	637.1	644.4	647.3
25°	711.5	712.9	711.5	699.8	691.0	689.6	685.2	686.7	686.7	688.1	692.5
27.5°	749.4	752.3	746.4	740.6	734.8	730.4	733.3	737.7	745.0	742.1	750.8
30°	791.6	790.2	784.4	777.1	772.7	771.2	769.8	785.8	806.2	815.0	825.2
32.5°	867.5	866.0	854.3	817.9	807.7	807.7	810.6	831.0	863.1	890.8	917.0
35°	937.4	937.4	922.9	898.1	854.3	841.2	848.5	873.3	919.9	975.3	1017.6
37.5°	1020.5	1022.0	1006.0	968.0	933.1	919.9	884.9	919.9	976.8	1083.2	1135.7
40°	1116.8	1113.8	1087.6	1046.8	1001.6	991.4	962.2	969.5	1049.7	1210.1	1261.1
42.5°	1170.7	1167.8	1150.3	1118.2	1081.8	1070.1	1043.9	1036.6	1147.4	1350.0	1383.6
45°	1223.2	1226.1	1224.6	1208.6	1199.9	1192.6	1178.0	1179.4	1268.4	1488.5	1490.0
47.5°	1253.8	1259.6	1236.3	1234.8	1236.3	1236.3	1256.7	1297.5	1383.6	1606.6	1583.3
50°	1344.2	1338.4	1266.9	1269.8	1288.8	1297.5	1335.4	1395.2	1543.9	1708.7	1663.5
52.5°	1526.4	1485.6	1395.2	1351.5	1358.8	1380.6	1425.8	1511.8	1704.3	1809.3	1734.9
55°	1730.5	1713.0	1619.7	1507.5	1457.9	1485.6	1533.7	1624.1	1831.1	1895.3	1794.7
57.5°	1871.9	1879.2	1882.2	1791.8	1618.3	1627.0	1657.6	1736.4	1944.8	1982.8	1839.9
60°	2009.0	2019.2	2074.6	2061.5	2004.6	1940.5	1820.9	1847.2	2042.5	2045.4	1874.9
62.5°	2118.3	2124.2	2213.1	2253.9	2356.0	2360.3	2166.4	2000.2	2141.7	2090.6	1888.0
65°	2062.9	2079.0	2208.7	2332.6	2622.8	2654.8	2579.0	2195.6	2217.5	2111.0	1879.2
67.5°	1876.3	1902.6	2025.0	2309.3	2789.0	2810.8	2743.8	2549.9	2245.2	2103.8	1831.1
70°	1616.8	1628.5	1768.4	2122.7	2819.6	2829.8	2746.7	2624.2	2226.2	2061.5	1730.5
72.5°	1315.0	1328.2	1449.2	1825.3	2681.1	2689.8	2668.0	2565.9	2181.0	1982.8	1526.4
75°	987.0	1007.4	1122.6	1425.8	2367.6	2442.0	2487.2	2443.4	2055.6	1721.8	1162.0
77.5°	651.7	653.1	769.8	1077.4	1876.3	1950.7	1958.0	1921.5	1459.4	1080.3	516.1
80°	279.9	306.2	450.5	723.1	1246.5	1259.6	1274.2	1178.0	747.9	333.9	56.9
82.5°	93.3	103.5	189.5	382.0	613.8	628.4	602.1	521.9	209.9	45.2	32.1
85°	39.4	43.7	58.3	105.0	148.7	135.6	126.8	103.5	29.2	26.2	20.4
87.5°	1.5	1.5	1.5	1.5	2.9	1.5	2.9	2.9	4.4	4.4	5.8
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°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2
2.5°	494.2	494.2	494.2	492.8	492.8	491.3	491.3	489.9	489.9	489.9	489.9
5°	497.1	497.1	494.2	492.8	489.9	486.9	484.0	481.1	478.2	478.2	478.2
7.5°	503.0	501.5	497.1	491.3	485.5	478.2	473.8	468.0	465.1	462.2	463.6
10°	511.7	508.8	503.0	494.2	482.6	470.9	460.7	452.0	447.6	443.2	441.7
12.5°	523.4	520.5	511.7	498.6	481.1	463.6	447.6	434.5	425.7	421.3	419.9
15°	540.9	536.5	524.8	505.9	481.1	454.9	433.0	414.0	399.5	390.7	390.7
17.5°	568.6	564.2	548.2	521.9	486.9	450.5	417.0	384.9	365.9	355.7	354.3
20°	605.0	599.2	580.2	542.3	497.1	449.0	399.5	358.6	326.6	309.1	307.6
22.5°	647.3	642.9	613.8	564.2	507.4	446.1	386.3	332.4	287.2	255.1	247.8
25°	696.9	689.6	645.9	581.7	510.3	438.8	367.4	304.7	242.0	202.6	195.4
27.5°	755.2	739.2	675.0	594.8	508.8	424.3	345.5	265.3	183.7	154.5	150.2
30°	817.9	790.2	704.2	603.6	500.1	400.9	307.6	198.3	132.7	115.2	110.8
32.5°	889.3	845.6	730.4	605.0	481.1	368.8	243.5	135.6	94.8	84.6	83.1
35°	975.3	915.6	758.1	599.2	453.4	316.4	169.1	91.8	70.0	67.1	67.1
37.5°	1087.6	1004.5	788.7	581.7	411.1	244.9	112.3	62.7	61.2	62.7	62.7
40°	1205.7	1106.5	826.6	555.5	357.2	176.4	71.4	58.3	58.3	59.8	59.8
42.5°	1317.9	1204.2	874.7	520.5	296.0	113.7	58.3	55.4	53.9	55.4	56.9
45°	1412.7	1296.1	921.4	482.6	226.0	72.9	56.9	52.5	49.6	51.0	51.0
47.5°	1497.3	1366.1	947.6	437.4	158.9	56.9	56.9	48.1	45.2	45.2	46.7
50°	1568.7	1421.5	962.2	384.9	100.6	55.4	51.0	45.2	42.3	42.3	40.8
52.5°	1628.5	1462.3	960.8	326.6	65.6	53.9	48.1	42.3	37.9	39.4	39.4
55°	1673.7	1494.4	938.9	250.8	55.4	51.0	46.7	39.4	36.4	39.4	39.4
57.5°	1708.7	1508.9	898.1	174.9	53.9	46.7	43.7	36.4	33.5	35.0	35.0
60°	1726.2	1501.6	833.9	109.3	52.5	45.2	40.8	33.5	30.6	29.2	30.6
62.5°	1720.3	1475.4	742.1	72.9	49.6	42.3	37.9	32.1	27.7	24.8	24.8
65°	1685.3	1417.1	632.7	61.2	48.1	42.3	36.4	30.6	24.8	23.3	23.3
67.5°	1606.6	1296.1	469.4	56.9	48.1	40.8	35.0	29.2	24.8	21.9	21.9
70°	1444.8	1078.8	226.0	52.5	48.1	42.3	35.0	27.7	23.3	20.4	20.4
72.5°	1169.2	762.5	58.3	45.2	46.7	42.3	36.4	27.7	21.9	19.0	19.0
75°	762.5	365.9	49.6	36.4	42.3	39.4	35.0	27.7	21.9	17.5	17.5
77.5°	247.8	51.0	45.2	32.1	37.9	37.9	35.0	27.7	21.9	16.0	16.0
80°	39.4	36.4	39.4	24.8	27.7	32.1	27.7	26.2	20.4	14.6	14.6
82.5°	27.7	33.5	29.2	20.4	24.8	26.2	21.9	17.5	14.6	13.1	13.1
85°	20.4	21.9	17.5	16.0	19.0	21.9	17.5	13.1	11.7	11.7	11.7
87.5°	7.3	8.7	8.7	11.7	14.6	16.0	10.2	7.3	8.7	8.7	8.7
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)