

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: P507435

Luminaire Tested: **VERD-S-CA1-20-727-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507435  
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-CA1-20-727-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 430mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2983 lumens  
Efficiency: N/A  
Efficacy: 127.5 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): 23.4  
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

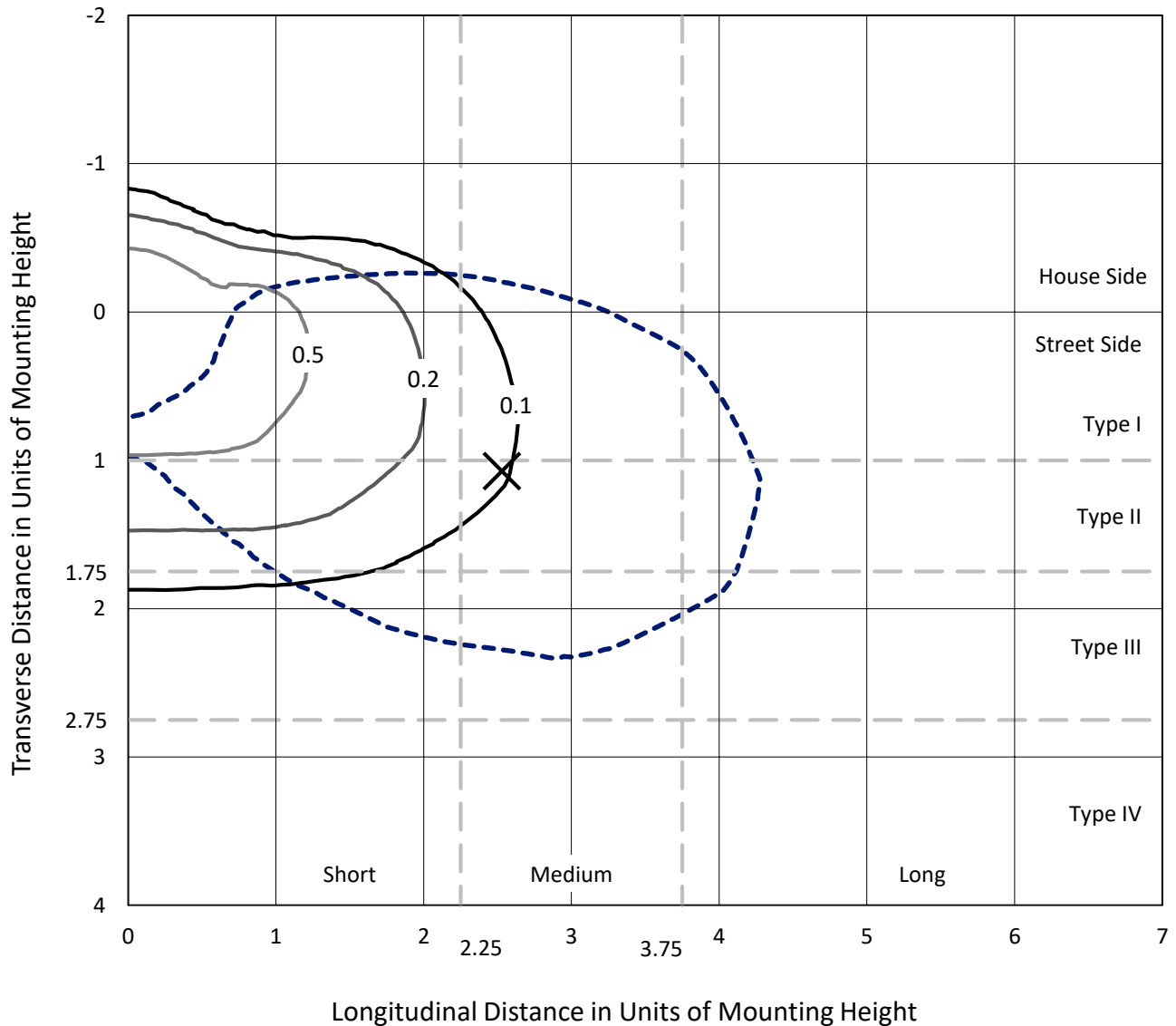


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### Iso-Footcandle Lines of Horizontal Illumination

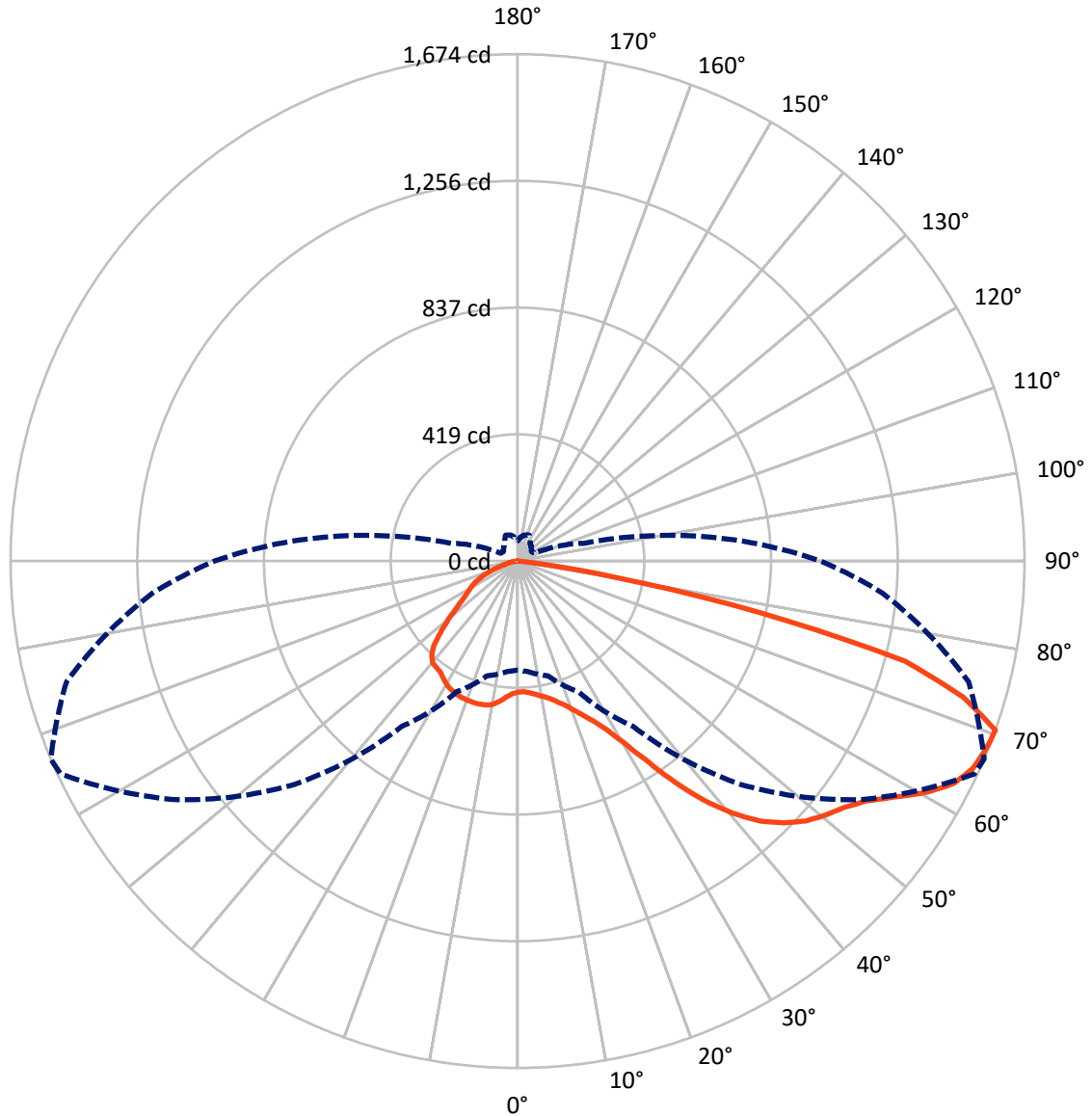
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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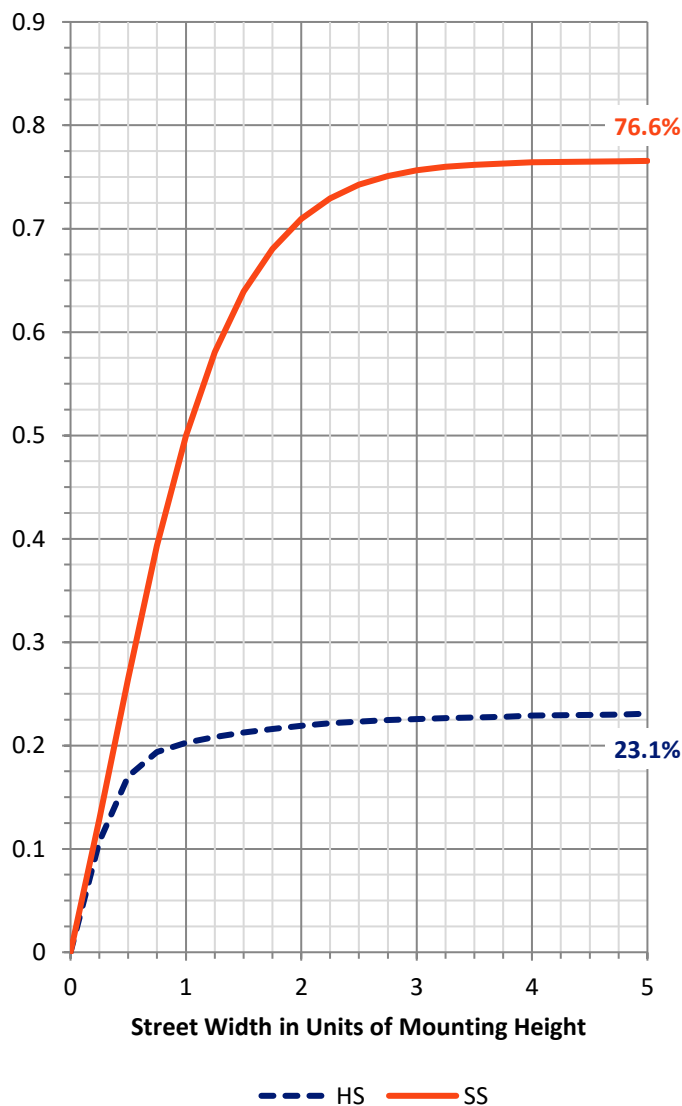
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	697.9	0.0	697.9
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	2285.1	0.0	2285.1
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2983.0	0.0	2983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.9	1.5
10°-20°	141.4	4.7
20°-30°	249.4	8.4
30°-40°	382.3	12.8
40°-50°	521.1	17.5
50°-60°	616.6	20.7
60°-70°	642.8	21.5
70°-80°	359.6	12.1
80°-90°	26.0	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°	2983.0	100.0
0°-180°	2983.0	100.0

**Coefficient of Utilization**



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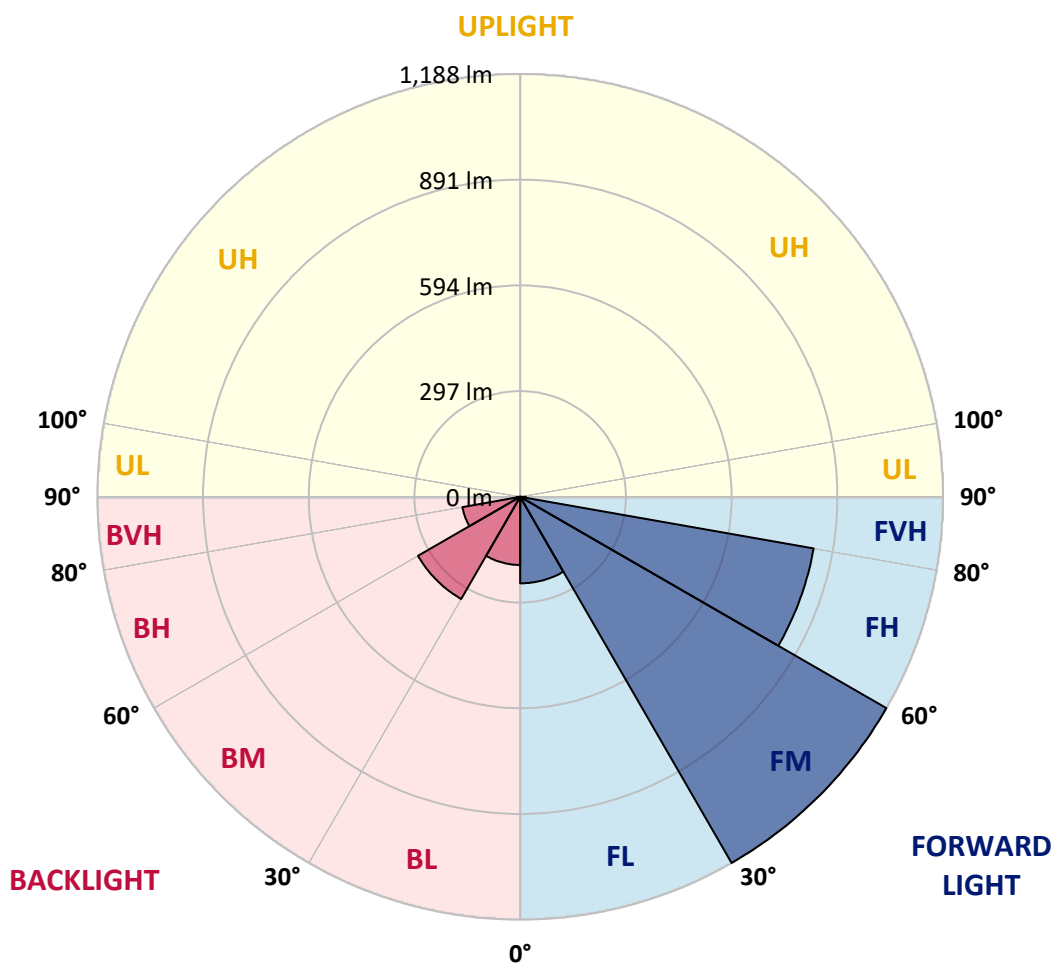
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.1	8.2			
FM (30°-60°)	1188.4	39.8			
FH (60°-80°)	837.6	28.1			G1/1800
FVH (80°-90°)	15.9	0.5			G1/100
BL (0°-30°)	191.6	6.4	B1/500		
BM (30°-60°)	331.5	11.1	B1/1000		
BH (60°-80°)	164.8	5.5	B1/500		G1/500
BVH (80°-90°)	10.1	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°	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7
2.5°	434.4	434.4	434.4	433.5	433.5	433.5	432.7	431.8	431.8	432.7	432.7
5°	445.4	445.4	444.5	443.7	442.0	440.3	438.6	437.8	437.8	437.8	438.6
7.5°	460.6	459.8	458.1	457.2	454.7	452.2	448.8	445.4	445.4	443.7	445.4
10°	479.3	479.3	476.7	475.0	471.6	464.9	459.8	454.7	453.9	452.2	454.7
12.5°	503.0	503.0	501.3	497.0	492.0	483.5	474.2	465.7	464.9	462.3	467.4
15°	531.8	529.2	528.4	525.0	515.7	504.7	492.0	481.0	481.0	476.7	482.6
17.5°	563.9	563.1	562.2	558.0	547.0	530.9	514.0	501.3	498.7	496.2	499.6
20°	602.9	602.0	601.2	594.4	581.7	562.2	541.9	525.0	523.3	520.8	518.2
22.5°	647.8	647.8	644.4	639.3	621.5	598.7	574.1	552.9	552.9	550.4	538.5
25°	690.9	689.3	687.6	681.6	667.2	642.7	613.9	589.3	585.9	585.9	565.6
27.5°	730.7	730.7	733.3	729.9	715.5	690.1	661.3	633.4	631.7	628.3	597.0
30°	772.2	773.9	774.8	774.8	768.0	748.5	717.2	696.0	699.4	690.9	643.5
32.5°	803.6	805.3	816.3	826.4	820.5	809.5	791.7	784.9	788.3	795.1	743.4
35°	833.2	835.7	851.0	872.2	881.5	876.4	878.9	890.8	898.4	925.5	880.6
37.5°	855.2	857.8	871.3	897.6	925.5	939.9	963.6	989.8	1004.2	1039.0	974.6
40°	861.1	865.4	893.3	928.9	971.2	1014.4	1043.2	1077.1	1094.8	1110.9	1038.1
42.5°	840.8	845.1	881.5	956.0	1015.3	1081.3	1112.6	1159.2	1173.6	1164.3	1087.2
45°	828.1	830.7	867.9	953.4	1053.4	1145.7	1176.1	1225.2	1233.7	1210.8	1129.6
47.5°	810.3	812.9	852.7	949.2	1083.8	1201.5	1222.7	1271.0	1282.0	1249.8	1161.7
50°	784.1	787.5	833.2	941.6	1104.2	1239.6	1262.5	1312.5	1318.4	1284.5	1195.6
52.5°	752.8	757.8	806.1	925.5	1117.7	1264.2	1293.8	1345.5	1351.4	1329.4	1232.0
55°	714.7	719.7	771.4	901.8	1113.5	1271.8	1307.4	1387.8	1398.0	1380.2	1263.3
57.5°	677.4	680.8	734.1	867.1	1089.8	1283.7	1348.0	1456.4	1470.0	1432.7	1288.8
60°	632.5	640.1	691.8	819.7	1053.4	1295.5	1400.5	1538.5	1551.2	1483.5	1308.2
62.5°	585.9	592.7	638.4	760.4	996.6	1284.5	1440.3	1609.7	1617.3	1524.1	1315.0
65°	531.8	532.6	574.9	685.0	915.3	1239.6	1443.7	1644.4	1652.0	1549.5	1303.1
67.5°	459.8	459.8	495.3	589.3	806.1	1158.4	1413.2	1655.4	1666.4	1566.5	1274.4
70°	359.9	365.8	392.9	476.7	667.2	1043.2	1374.3	1663.9	1674.0	1541.9	1209.2
72.5°	251.5	249.8	277.7	328.5	482.6	832.4	1226.1	1539.4	1539.4	1416.6	1089.8
75°	77.1	86.4	99.1	132.9	220.2	558.0	1004.2	1304.8	1321.8	1226.9	898.4
77.5°	25.4	25.4	29.6	36.4	47.4	118.5	502.1	799.3	812.9	798.5	556.3
80°	20.3	20.3	22.9	26.2	30.5	61.0	177.0	299.7	321.8	354.8	230.3
82.5°	14.4	14.4	15.2	16.1	15.2	24.6	46.6	79.6	81.3	88.1	74.5
85°	9.3	8.5	8.5	7.6	6.8	6.8	5.9	5.9	6.8	6.8	8.5
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5
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°	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7
2.5°	433.5	434.4	436.9	438.6	440.3	442.0	442.8	443.7	443.7	444.5	444.5
5°	439.5	441.2	445.4	449.6	456.4	463.2	469.1	472.5	473.3	476.7	476.7
7.5°	447.1	449.6	459.8	467.4	477.6	485.2	492.0	495.3	498.7	500.4	500.4
10°	458.9	462.3	472.5	481.0	489.4	495.3	499.6	502.1	503.0	503.8	503.8
12.5°	470.8	475.0	481.0	487.7	492.8	496.2	498.7	499.6	499.6	499.6	499.6
15°	483.5	485.2	486.9	488.6	491.1	492.0	492.0	491.1	489.4	488.6	488.6
17.5°	496.2	494.5	492.0	488.6	485.2	482.6	479.3	475.9	473.3	471.6	472.5
20°	511.4	506.4	495.3	486.9	477.6	468.3	460.6	453.9	448.8	447.9	448.8
22.5°	529.2	519.1	501.3	483.5	467.4	450.5	434.4	425.1	420.0	415.8	415.8
25°	550.4	534.3	506.4	478.4	453.0	425.9	403.9	389.5	381.0	376.0	377.6
27.5°	574.9	554.6	511.4	470.8	431.8	396.3	367.5	344.6	335.3	328.5	329.4
30°	610.5	578.3	517.4	459.8	404.7	359.9	321.8	294.7	278.6	273.5	275.2
32.5°	690.1	629.1	524.1	443.7	374.3	316.7	265.9	232.9	215.9	215.9	215.1
35°	823.0	735.0	540.2	424.2	340.4	268.4	203.2	172.7	171.9	175.3	176.1
37.5°	916.2	832.4	590.2	405.6	303.1	210.0	150.7	142.3	150.7	154.1	153.3
40°	976.3	890.8	647.8	386.1	250.6	150.7	119.4	113.5	121.9	128.7	133.8
42.5°	1025.4	931.4	674.0	360.7	187.1	108.4	88.1	86.4	99.1	108.4	111.8
45°	1064.4	968.7	677.4	325.2	127.0	80.4	72.0	79.6	94.8	102.5	103.3
47.5°	1095.7	999.2	668.1	268.4	84.7	70.3	70.3	80.4	94.8	102.5	102.5
50°	1126.2	1024.6	644.4	218.5	76.2	68.6	71.1	81.3	94.0	99.9	99.9
52.5°	1151.6	1041.5	602.9	174.4	73.7	66.9	71.1	81.3	92.3	94.8	93.1
55°	1174.4	1048.3	565.6	140.6	71.1	66.0	72.8	83.0	91.4	91.4	88.1
57.5°	1187.1	1032.2	537.7	116.0	68.6	66.0	73.7	84.7	94.0	95.7	93.1
60°	1187.1	1009.3	507.2	102.5	66.9	66.0	73.7	90.6	111.8	103.3	102.5
62.5°	1171.1	984.8	461.5	91.4	64.4	66.9	74.5	100.8	136.3	102.5	98.2
65°	1143.1	937.4	401.4	81.3	61.8	67.7	73.7	116.0	162.6	99.1	87.2
67.5°	1090.6	862.0	326.8	71.1	58.4	66.0	72.0	106.7	99.9	82.1	73.7
70°	1000.0	749.4	226.9	61.8	55.9	64.4	72.0	94.0	88.9	75.4	66.0
72.5°	865.4	614.7	121.9	50.8	49.1	61.0	70.3	86.4	76.2	61.8	55.9
75°	664.7	436.9	74.5	39.8	40.6	54.2	65.2	82.1	72.8	59.3	51.7
77.5°	383.6	202.4	53.3	29.6	28.8	43.2	58.4	76.2	71.1	57.6	50.0
80°	140.6	83.8	36.4	22.0	19.5	31.3	45.7	61.8	67.7	56.7	50.8
82.5°	60.1	44.9	23.7	15.2	14.4	17.8	27.9	43.2	56.7	45.7	42.3
85°	8.5	8.5	8.5	7.6	8.5	11.0	11.9	21.2	31.3	16.9	16.9
87.5°	3.4	3.4	3.4	3.4	4.2	4.2	3.4	3.4	2.5	2.5	2.5
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)