

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: P507485

Luminaire Tested: **VERD-S-CA1-30-727-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-30-727-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 590mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4027.1 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

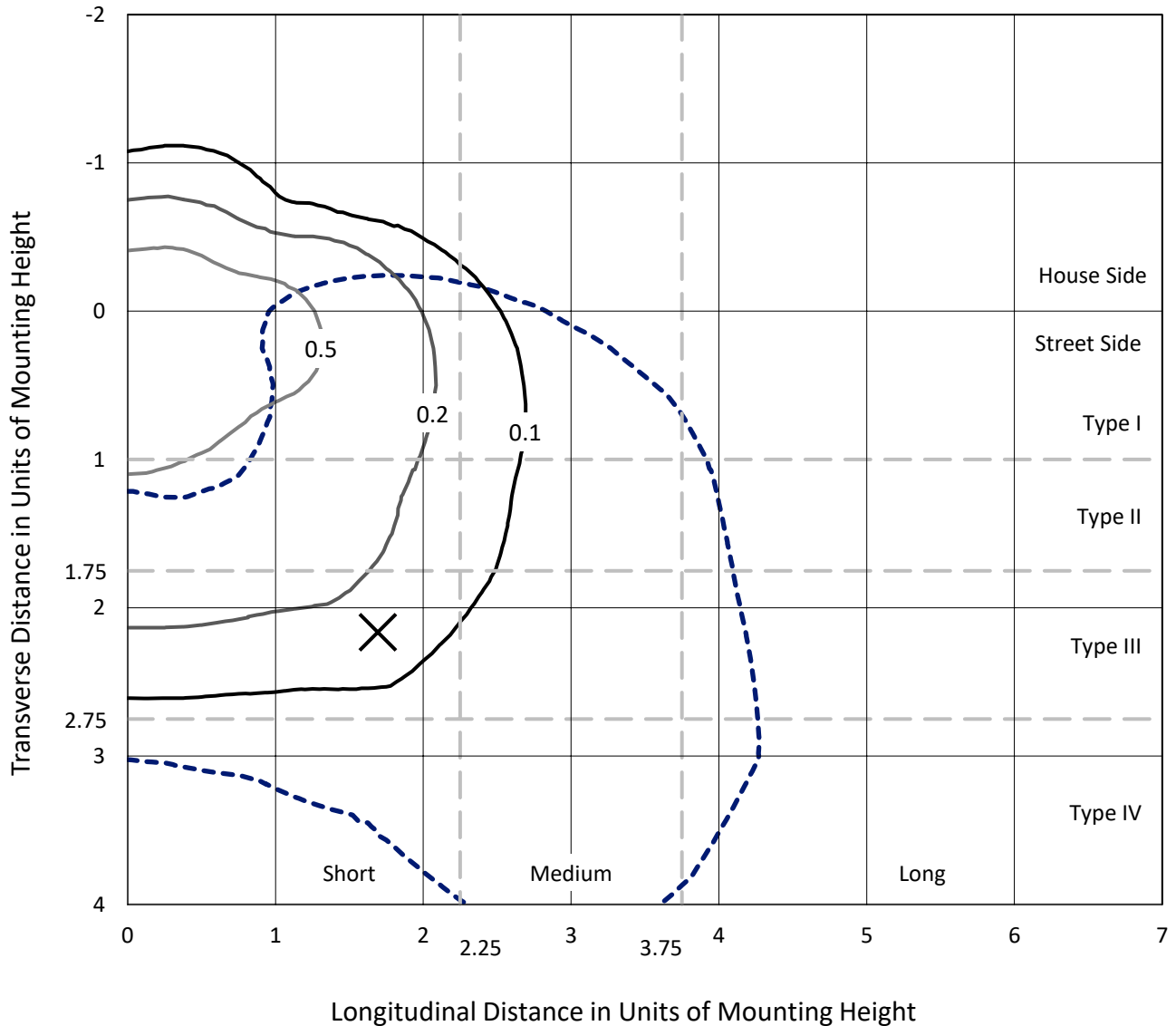
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

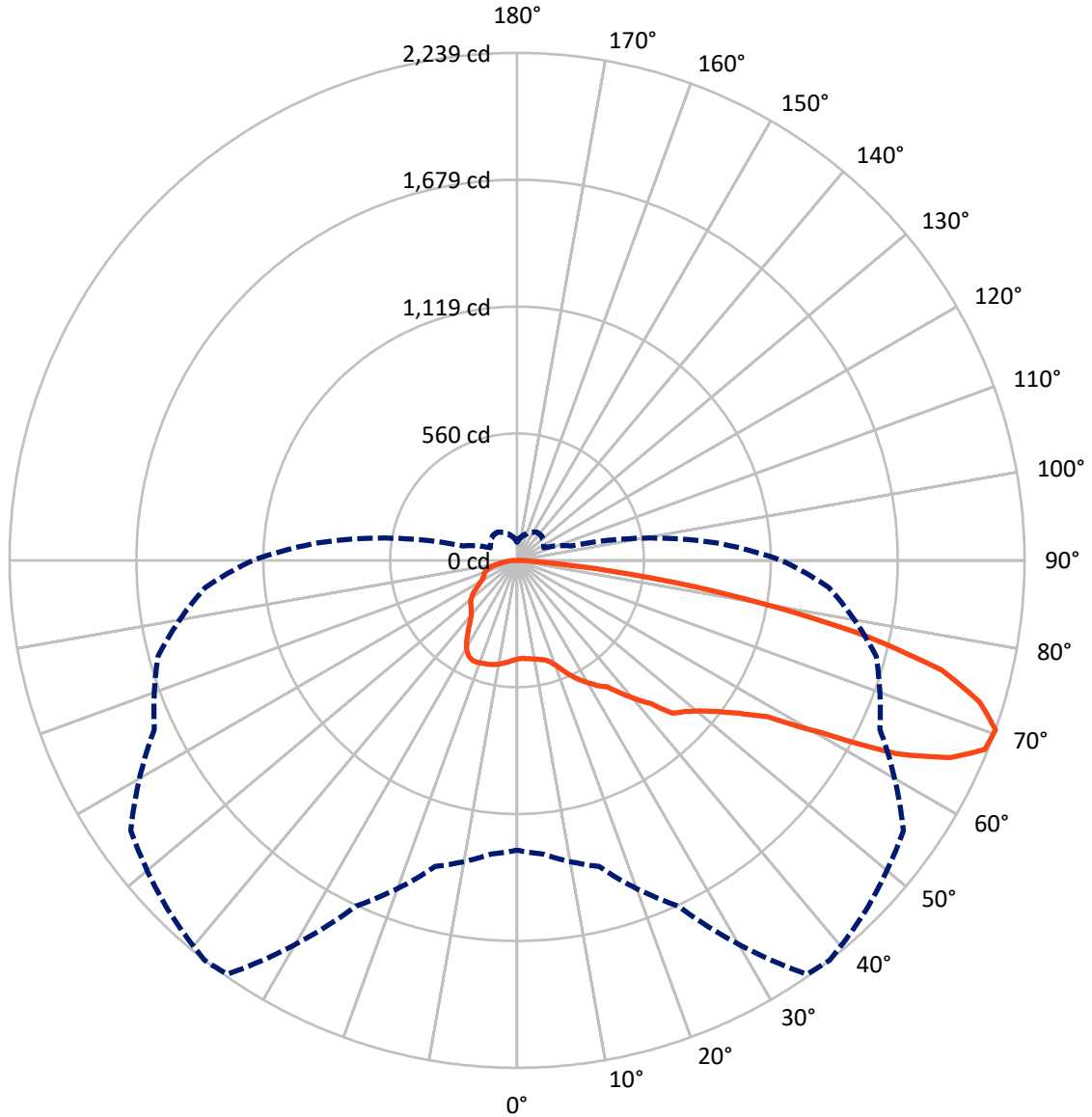
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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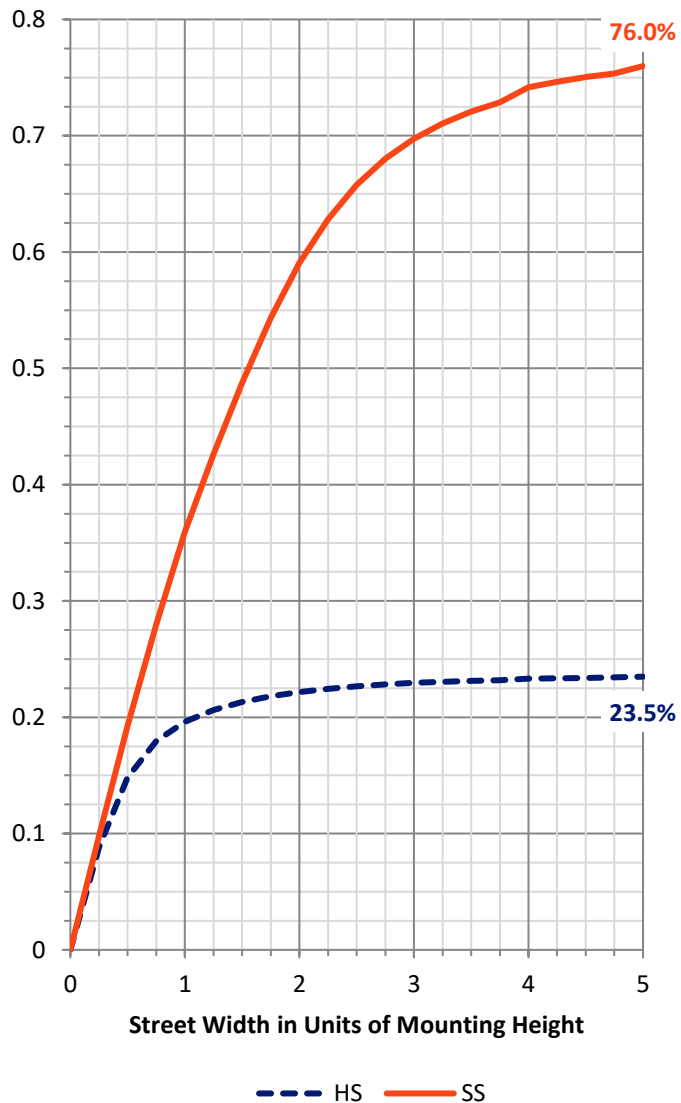
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	956.5	0.0	956.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	3070.6	0.0	3070.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	4027.1	0.0	4027.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	1.1
10°-20°	133.7	3.3
20°-30°	248.1	6.2
30°-40°	384.1	9.5
40°-50°	569.1	14.1
50°-60°	793.0	19.7
60°-70°	1018.4	25.3
70°-80°	745.0	18.5
80°-90°	93.3	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°	4027.1	100.0
0°-180°	4027.1	100.0

**Coefficient of Utilization**

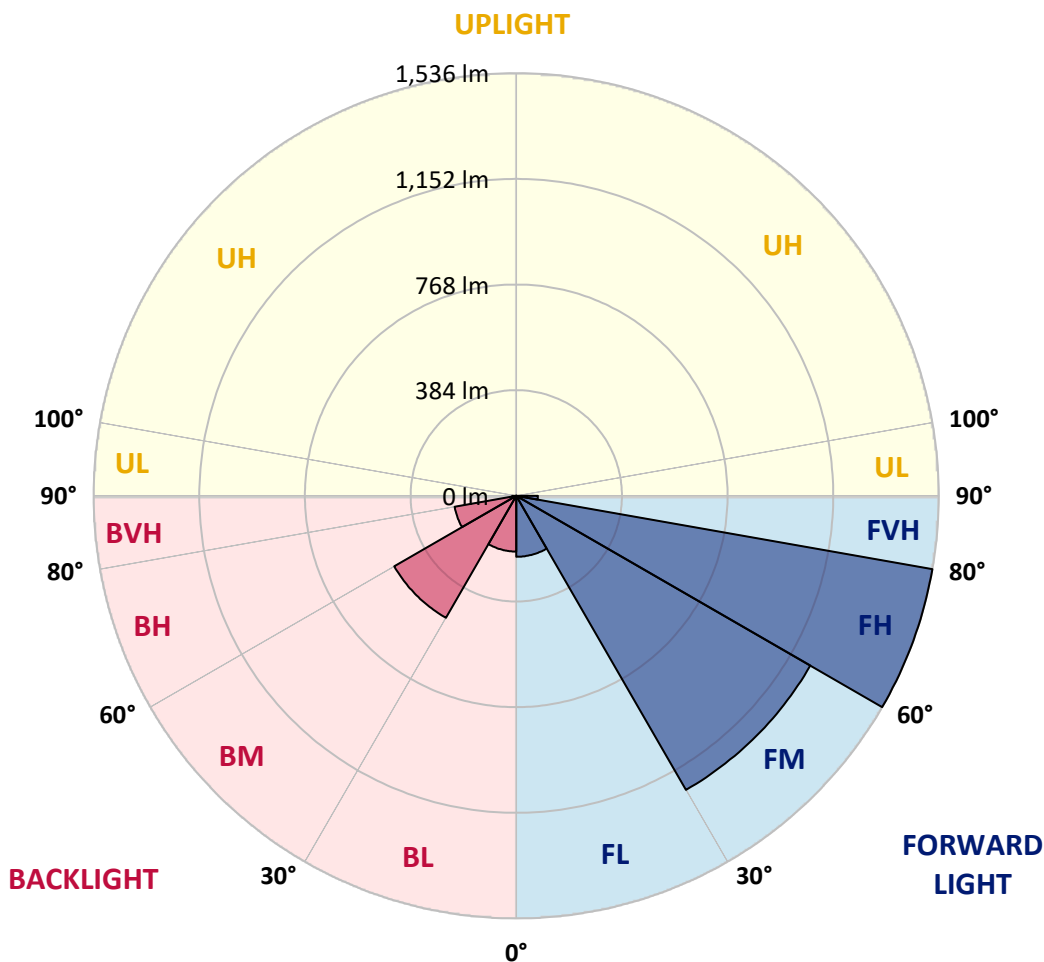


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.6	5.5			
FM (30°-60°)	1234.2	30.6			
FH (60°-80°)	1536.0	38.1			G1/1800
FVH (80°-90°)	78.9	2.0			G1/100
BL (0°-30°)	202.6	5.0	B1/500		
BM (30°-60°)	512.0	12.7	B1/1000		
BH (60°-80°)	227.4	5.6	B1/500		G1/500
BVH (80°-90°)	14.5	0.4			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2
2.5°	434.0	434.0	434.0	432.9	432.9	432.9	431.7	431.7	432.9	434.0	434.0
5°	437.5	437.5	436.3	436.3	435.2	435.2	435.2	434.0	434.0	434.0	436.3
7.5°	438.6	438.6	438.6	438.6	438.6	438.6	439.8	438.6	438.6	438.6	440.9
10°	438.6	438.6	439.8	439.8	442.1	443.2	444.4	446.7	446.7	446.7	447.8
12.5°	440.9	440.9	442.1	443.2	446.7	449.0	451.3	454.7	455.9	455.9	456.9
15°	445.5	445.5	446.7	450.1	454.7	455.9	459.2	463.8	468.4	469.6	470.7
17.5°	463.8	463.8	463.8	463.8	468.4	469.6	474.2	481.1	485.7	488.0	491.4
20°	500.6	501.8	499.5	498.3	496.0	496.0	496.0	499.5	505.2	513.2	518.9
22.5°	547.7	547.7	547.7	538.5	532.7	531.6	531.6	530.4	535.0	543.1	551.1
25°	584.4	585.5	584.4	576.3	569.4	567.1	567.1	570.6	570.6	577.5	586.7
27.5°	614.3	616.6	613.2	606.3	600.5	599.3	600.5	610.9	616.6	621.1	632.6
30°	646.4	647.6	639.5	634.9	631.4	629.1	630.3	645.3	664.8	670.5	690.0
32.5°	706.1	706.1	694.6	668.3	659.1	660.2	660.2	679.7	706.1	732.5	757.8
35°	762.4	761.2	750.9	727.9	693.5	685.4	690.0	710.7	752.0	796.8	841.5
37.5°	829.0	826.7	817.5	785.3	756.6	744.0	718.8	746.3	796.8	885.2	931.2
40°	903.6	900.1	879.5	847.3	809.4	803.7	781.8	786.4	853.1	978.2	1031.1
42.5°	944.9	942.6	928.9	902.4	874.9	863.4	845.0	839.2	928.9	1098.8	1125.2
45°	984.0	988.6	988.6	975.9	964.4	962.1	949.5	954.1	1026.5	1197.5	1207.8
47.5°	1008.0	1012.6	997.7	995.4	995.4	996.5	1009.2	1040.3	1114.8	1290.5	1280.2
50°	1080.4	1077.0	1017.2	1026.5	1036.8	1043.7	1071.2	1120.6	1237.7	1374.3	1343.3
52.5°	1211.2	1180.3	1109.1	1088.5	1094.2	1107.9	1144.7	1208.9	1362.9	1449.0	1398.4
55°	1373.1	1354.8	1290.5	1198.7	1168.8	1191.8	1230.8	1296.3	1459.3	1519.0	1442.0
57.5°	1482.2	1489.1	1497.2	1434.0	1295.1	1300.9	1327.2	1382.3	1555.7	1586.7	1476.4
60°	1592.4	1600.5	1645.2	1629.2	1597.0	1544.2	1447.8	1474.3	1628.1	1631.6	1501.8
62.5°	1679.8	1685.5	1752.0	1788.8	1872.6	1879.5	1729.1	1590.1	1703.8	1667.1	1512.1
65°	1636.0	1646.4	1746.3	1848.6	2079.2	2098.8	2049.4	1739.5	1762.4	1680.9	1504.1
67.5°	1489.1	1504.1	1609.7	1826.7	2211.3	2226.2	2178.0	2020.7	1783.1	1675.2	1465.1
70°	1279.0	1300.9	1398.4	1683.2	2229.6	2238.8	2179.1	2080.4	1765.8	1640.6	1381.2
72.5°	1040.3	1057.4	1156.1	1443.2	2118.4	2133.2	2114.9	2031.0	1729.1	1574.1	1212.4
75°	796.8	797.9	902.4	1130.9	1874.9	1934.6	1965.6	1935.8	1629.2	1384.6	933.5
77.5°	502.9	517.8	624.5	856.5	1473.1	1533.9	1547.7	1511.0	1140.1	849.6	401.9
80°	226.2	249.1	358.2	578.6	1002.3	1000.0	1008.0	917.4	607.4	269.8	44.8
82.5°	81.5	86.1	150.4	290.5	485.7	498.3	492.6	423.7	164.2	37.9	27.5
85°	34.4	36.7	49.4	78.1	110.2	117.1	101.0	77.0	26.5	21.9	18.4
87.5°	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5	4.6	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°	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2
2.5°	434.0	435.2	436.3	438.6	438.6	439.8	440.9	442.1	442.1	442.1	442.1
5°	437.5	438.6	439.8	443.2	445.5	446.7	449.0	450.1	451.3	451.3	451.3
7.5°	442.1	443.2	445.5	449.0	452.4	454.7	456.9	458.1	459.2	459.2	459.2
10°	449.0	451.3	454.7	459.2	462.7	462.7	463.8	465.0	466.1	466.1	466.1
12.5°	458.1	460.4	466.1	471.9	473.0	471.9	469.6	469.6	468.4	467.3	467.3
15°	473.0	474.2	482.2	486.8	483.4	477.6	473.0	468.4	465.0	462.7	462.7
17.5°	493.7	497.2	505.2	505.2	496.0	485.7	474.2	462.7	453.6	450.1	449.0
20°	523.5	528.1	535.0	528.1	513.2	494.9	474.2	455.9	437.5	426.0	422.5
22.5°	556.9	562.6	564.8	550.0	528.1	502.9	475.3	446.7	416.7	391.5	384.6
25°	595.9	599.3	591.3	567.1	537.3	505.2	471.9	434.0	388.1	354.7	351.3
27.5°	641.8	638.4	616.6	579.8	539.6	500.6	459.2	408.7	351.3	326.1	322.6
30°	691.2	678.5	638.4	586.7	532.7	486.8	437.5	370.8	323.8	303.1	300.8
32.5°	749.7	724.4	659.1	587.8	520.1	462.7	401.9	339.9	305.4	282.5	280.2
35°	815.2	776.2	677.4	580.9	494.9	429.4	359.3	316.9	285.9	264.1	259.5
37.5°	903.6	846.2	700.4	566.0	462.7	386.9	328.4	292.8	266.4	242.2	238.9
40°	994.2	926.6	732.5	548.8	427.1	352.4	301.9	275.6	252.6	225.1	219.3
42.5°	1085.0	1006.9	776.2	528.1	391.5	326.1	290.5	273.3	245.7	217.0	211.3
45°	1159.6	1075.8	817.5	504.1	355.9	301.9	283.6	268.7	241.2	210.1	203.2
47.5°	1223.9	1133.2	853.1	482.2	321.5	283.6	277.9	260.6	234.3	203.2	196.3
50°	1277.9	1179.1	881.8	463.8	292.8	271.0	266.4	245.7	218.2	191.7	187.2
52.5°	1324.9	1212.4	894.4	458.1	264.1	256.0	248.0	227.4	202.0	178.0	171.1
55°	1356.0	1237.7	892.1	458.1	236.6	235.4	226.2	210.1	191.7	172.2	165.3
57.5°	1380.0	1249.2	874.9	391.5	213.6	208.9	203.2	196.3	184.9	163.0	156.1
60°	1391.5	1242.3	838.1	284.8	190.5	182.6	187.2	184.9	173.4	143.5	138.9
62.5°	1384.6	1221.6	755.5	207.8	166.5	165.3	172.2	167.6	145.8	119.4	117.1
65°	1358.3	1169.9	649.9	156.1	152.7	160.7	164.2	155.0	134.3	110.2	101.0
67.5°	1290.5	1070.1	473.0	140.0	148.1	157.3	159.6	146.9	126.3	103.3	91.8
70°	1165.3	881.8	245.7	129.8	141.2	152.7	151.5	135.4	114.8	94.1	80.4
72.5°	944.9	625.7	93.0	116.0	130.9	142.3	140.0	121.7	81.5	58.6	52.8
75°	613.2	299.6	80.4	99.9	117.1	127.5	128.6	110.2	71.2	49.4	42.5
77.5°	210.1	55.1	65.5	82.6	101.0	114.8	111.4	88.4	55.1	36.7	33.3
80°	35.6	36.7	50.5	58.6	70.1	91.8	78.1	63.2	43.6	26.5	21.9
82.5°	25.3	31.0	35.6	34.4	48.2	60.9	52.8	42.5	28.6	20.7	18.4
85°	18.4	20.7	19.6	20.7	27.5	40.2	36.7	29.8	20.7	15.0	12.7
87.5°	6.9	6.9	9.2	11.5	17.3	25.3	21.9	9.2	8.1	6.9	6.9
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)