

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: P507425

Luminaire Tested: **VERD-S-CA1-20-722-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-20-722-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 430mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2892 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

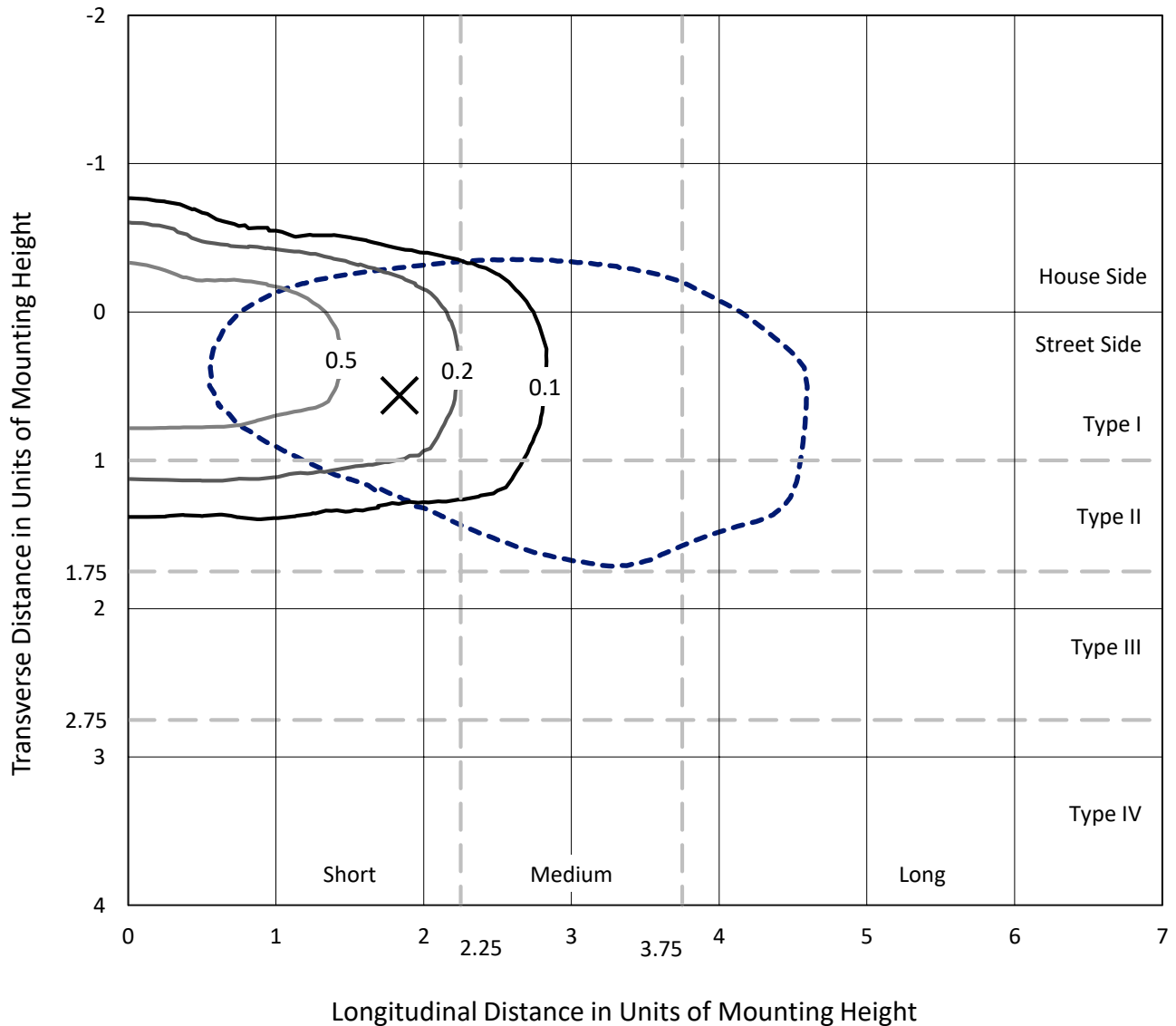
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

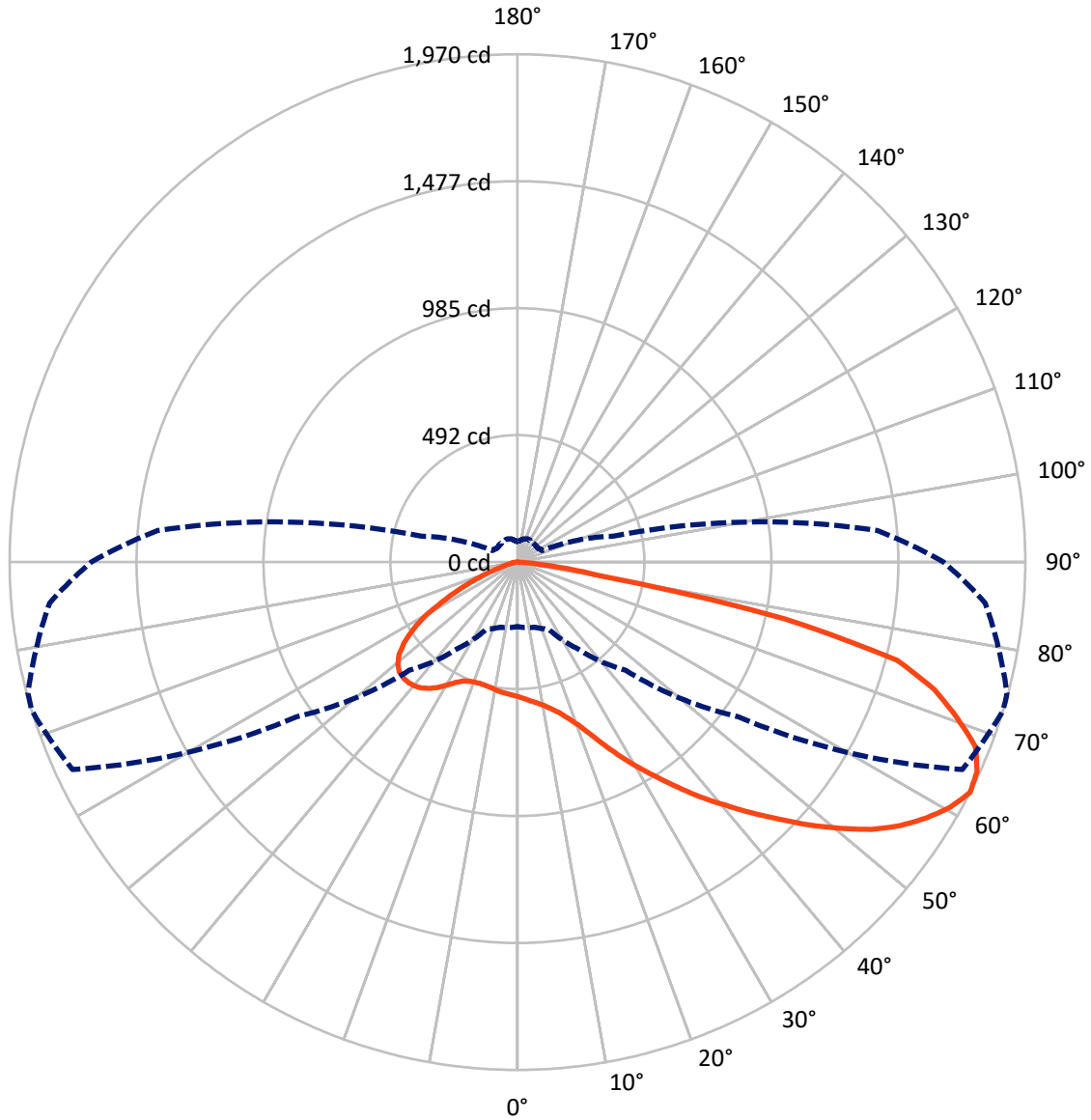
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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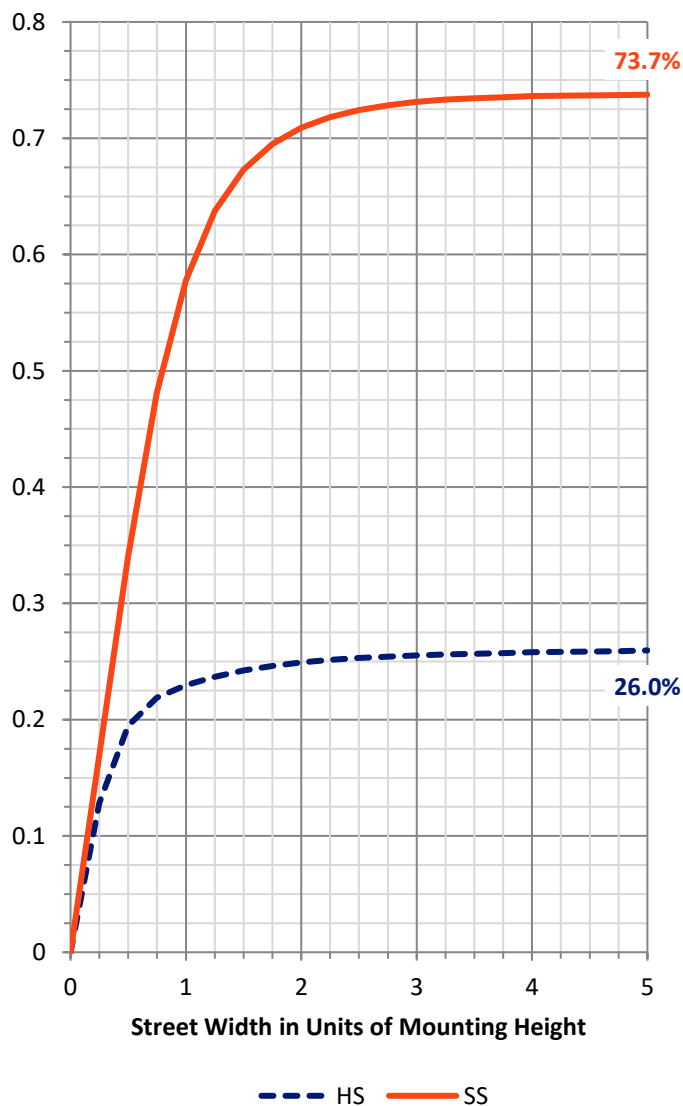
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	761.8	0.0	761.8
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	2130.2	0.0	2130.2
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	2892.0	0.0	2892.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.5	1.7
10°-20°	154.3	5.3
20°-30°	267.1	9.2
30°-40°	386.8	13.4
40°-50°	495.5	17.1
50°-60°	573.7	19.8
60°-70°	577.7	20.0
70°-80°	353.2	12.2
80°-90°	33.3	1.2
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°	2892.0	100.0
0°-180°	2892.0	100.0



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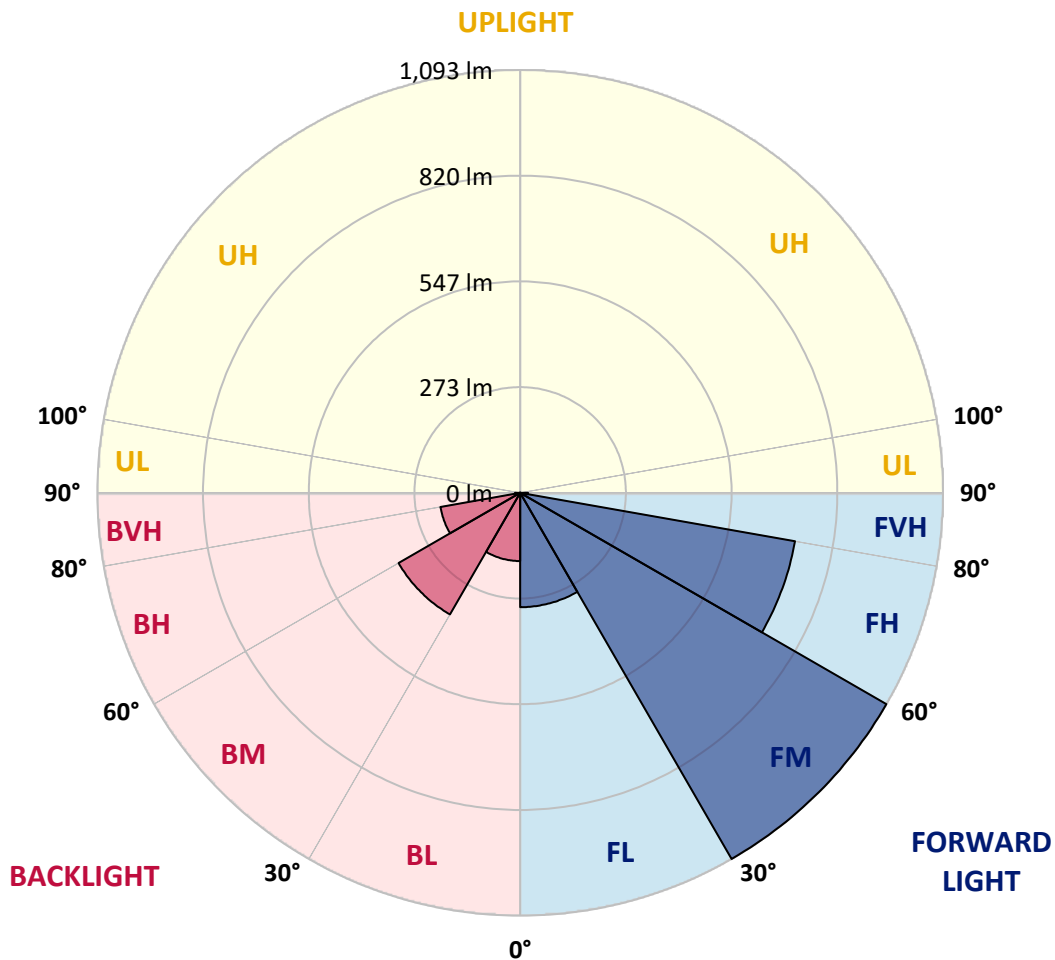
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.6	10.2			
FM (30°-60°)	1093.1	37.8			
FH (60°-80°)	721.5	24.9			G1/1800
FVH (80°-90°)	20.1	0.7			G1/100
BL (0°-30°)	176.3	6.1	B1/500		
BM (30°-60°)	362.9	12.5	B1/1000		
BH (60°-80°)	209.4	7.2	B1/500		G1/500
BVH (80°-90°)	13.2	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4
2.5°	549.3	548.5	546.8	546.0	544.4	540.3	537.9	533.8	530.5	529.7	524.8
5°	576.2	577.0	576.2	573.7	570.5	564.8	556.6	546.0	541.1	539.5	531.3
7.5°	601.4	601.4	600.6	597.4	594.1	586.8	575.3	563.1	551.7	548.5	537.9
10°	625.9	625.9	623.4	620.2	615.3	606.3	594.9	579.4	565.6	560.7	542.8
12.5°	652.0	651.1	647.9	643.0	636.5	629.1	616.9	599.8	584.3	578.6	553.3
15°	672.3	672.3	669.9	666.6	660.9	652.0	640.5	625.9	605.5	600.6	568.0
17.5°	690.3	691.1	689.4	689.4	684.6	678.0	668.3	656.0	636.5	629.1	590.0
20°	704.9	704.1	707.4	709.8	711.4	707.4	701.7	693.5	674.0	666.6	618.5
22.5°	711.4	713.1	722.9	735.1	742.4	743.2	742.4	741.6	724.5	714.7	657.7
25°	714.7	717.1	731.8	753.0	769.3	781.5	794.6	802.7	787.2	779.9	716.3
27.5°	718.0	720.4	737.5	763.6	794.6	823.9	850.0	865.5	854.1	845.1	776.6
30°	712.3	714.7	734.3	770.9	814.9	866.3	903.0	925.0	923.3	917.6	845.9
32.5°	700.0	702.5	724.5	770.1	836.1	909.5	950.2	986.9	994.2	988.5	915.2
35°	678.0	681.3	706.6	760.3	845.9	945.3	999.9	1053.7	1072.5	1073.3	991.0
37.5°	647.9	649.5	680.5	741.6	849.2	970.6	1041.5	1118.1	1156.4	1157.2	1068.4
40°	607.1	611.2	649.5	718.0	841.8	988.5	1083.1	1188.2	1238.7	1233.0	1152.3
42.5°	560.7	563.9	601.4	680.5	824.7	999.1	1121.4	1261.5	1328.4	1325.1	1231.4
45°	519.1	524.0	552.5	628.3	792.1	1001.6	1154.8	1334.9	1421.3	1417.2	1312.1
47.5°	463.7	475.9	514.2	581.9	743.2	991.0	1184.9	1434.3	1523.9	1518.2	1396.8
50°	356.9	361.0	441.7	542.8	687.8	964.9	1211.0	1526.4	1623.4	1619.3	1485.6
52.5°	321.9	325.2	351.2	497.9	632.4	918.4	1226.5	1644.6	1722.8	1711.4	1565.5
55°	302.3	305.6	320.3	397.7	584.3	848.4	1229.7	1744.8	1803.5	1792.9	1640.5
57.5°	284.4	286.9	300.7	340.6	528.9	751.4	1212.6	1825.5	1871.9	1861.3	1708.1
60°	265.7	268.1	282.8	309.7	460.4	662.5	1156.4	1888.2	1929.8	1919.2	1769.2
62.5°	250.2	254.3	261.6	286.9	411.5	593.3	1046.4	1903.7	1969.7	1965.6	1821.4
65°	231.4	233.1	244.5	264.9	363.5	545.2	928.2	1858.9	1959.1	1966.5	1852.4
67.5°	210.3	211.1	221.7	236.3	304.0	497.9	823.1	1798.6	1916.7	1929.0	1829.5
70°	181.7	182.5	192.3	207.8	251.8	431.9	714.7	1709.8	1808.4	1819.8	1741.5
72.5°	151.6	151.6	159.7	176.8	207.8	357.8	572.1	1515.0	1691.8	1710.6	1598.1
75°	66.0	68.5	82.3	98.6	134.5	263.2	390.4	1172.7	1520.7	1533.7	1400.9
77.5°	17.9	17.9	21.2	27.7	39.1	117.4	123.9	515.9	1059.4	1092.8	1035.8
80°	14.7	14.7	16.3	21.2	26.9	57.9	41.6	166.2	327.6	431.9	537.0
82.5°	8.1	8.1	9.8	12.2	14.7	14.7	14.7	84.8	161.4	172.0	224.9
85°	4.1	4.9	4.9	5.7	5.7	4.9	4.9	17.1	31.0	35.0	53.8
87.5°	1.6	1.6	1.6	1.6	0.8	0.8	1.6	2.4	2.4	3.3	4.1
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°	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4
2.5°	523.2	520.7	517.5	515.0	510.2	505.3	502.0	499.6	498.7	497.9	497.9
5°	526.5	522.4	513.4	504.4	497.1	490.6	484.9	480.8	479.2	478.4	478.4
7.5°	531.3	525.6	511.0	497.9	484.9	475.1	466.1	460.4	457.2	458.0	460.4
10°	533.8	524.8	505.3	492.2	475.1	459.6	449.0	442.5	440.1	440.1	439.3
12.5°	540.3	527.3	501.2	480.8	466.1	445.0	432.7	427.0	423.8	418.9	417.3
15°	550.1	533.8	499.6	472.7	449.8	431.1	414.8	406.7	404.2	397.7	397.7
17.5°	568.0	545.2	499.6	463.7	434.4	416.4	395.2	383.8	382.2	378.1	377.3
20°	589.2	560.7	503.6	454.7	418.1	394.4	370.8	359.4	355.3	351.2	351.2
22.5°	622.6	584.3	511.0	448.2	401.0	371.6	345.5	329.2	322.7	321.9	320.3
25°	674.0	621.8	522.4	441.7	383.8	346.4	320.3	299.1	288.5	286.9	286.0
27.5°	730.2	673.1	545.2	436.0	365.1	317.8	286.9	264.0	251.0	249.4	248.6
30°	790.5	726.1	575.3	431.1	341.5	285.2	250.2	228.2	216.0	212.7	213.5
32.5°	856.5	783.2	607.9	427.0	316.2	242.9	210.3	195.6	182.5	176.8	177.7
35°	920.9	833.7	636.5	423.8	282.8	204.6	179.3	163.8	150.8	143.4	143.4
37.5°	993.4	893.2	660.1	417.3	246.9	178.5	154.0	138.5	128.8	122.2	122.2
40°	1064.3	952.7	678.8	405.0	207.0	157.3	127.1	118.2	111.6	107.6	105.9
42.5°	1133.6	1012.2	691.1	384.7	173.6	132.0	105.9	105.1	105.9	101.9	101.1
45°	1205.3	1070.8	700.0	352.1	149.9	109.2	94.5	100.2	105.9	104.3	104.3
47.5°	1283.5	1127.9	707.4	299.1	127.1	96.2	93.7	99.4	106.8	107.6	107.6
50°	1358.5	1185.7	704.9	231.4	111.6	95.3	94.5	96.2	105.9	108.4	106.8
52.5°	1428.6	1235.5	685.4	168.7	104.3	97.0	97.0	95.3	103.5	105.1	105.9
55°	1499.5	1281.9	641.4	133.7	100.2	97.0	101.1	97.0	99.4	100.2	101.9
57.5°	1563.9	1329.2	576.2	119.8	99.4	97.0	101.1	98.6	98.6	95.3	94.5
60°	1613.6	1368.3	497.1	114.1	97.0	97.8	99.4	99.4	97.0	89.6	87.2
62.5°	1652.7	1400.9	388.7	106.8	95.3	96.2	95.3	98.6	92.9	82.3	79.9
65°	1674.7	1406.6	297.5	98.6	91.3	94.5	92.1	91.3	86.4	75.0	70.1
67.5°	1650.3	1366.7	207.8	90.5	86.4	92.1	88.0	84.8	79.0	68.5	61.9
70°	1555.7	1250.9	136.9	79.9	79.9	86.4	83.1	78.2	70.9	62.8	55.4
72.5°	1378.1	1078.2	82.3	66.0	70.9	79.0	77.4	70.9	49.7	38.3	33.4
75°	1165.4	885.8	53.0	49.7	57.9	70.9	71.7	63.6	42.4	34.2	34.2
77.5°	846.7	581.9	31.0	27.7	38.3	57.0	61.1	46.5	45.6	63.6	46.5
80°	434.4	282.0	23.6	17.1	20.4	42.4	34.2	35.0	69.3	51.3	32.6
82.5°	188.3	111.6	14.7	12.2	13.0	21.2	22.0	57.9	53.8	30.2	20.4
85°	39.9	21.2	8.1	8.1	8.1	9.8	12.2	62.8	33.4	15.5	6.5
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	3.3	3.3	3.3	2.4	2.4
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)