

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: P507492

Luminaire Tested: **VERD-S-CA1-30-730-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507492  
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-CA1-30-730-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 590mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4211.2 lumens  
Efficiency: N/A  
Efficacy: 123.9 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

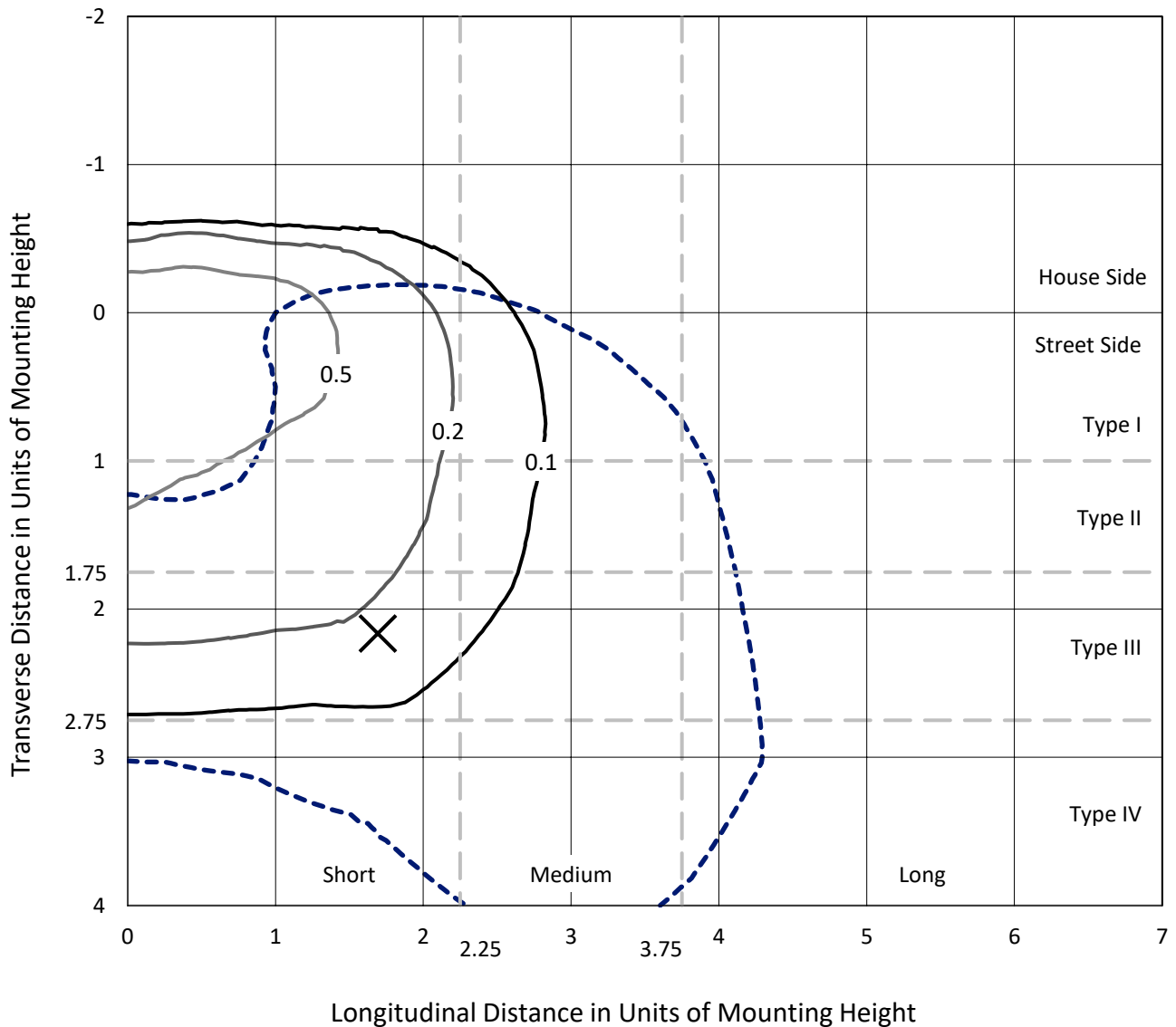
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

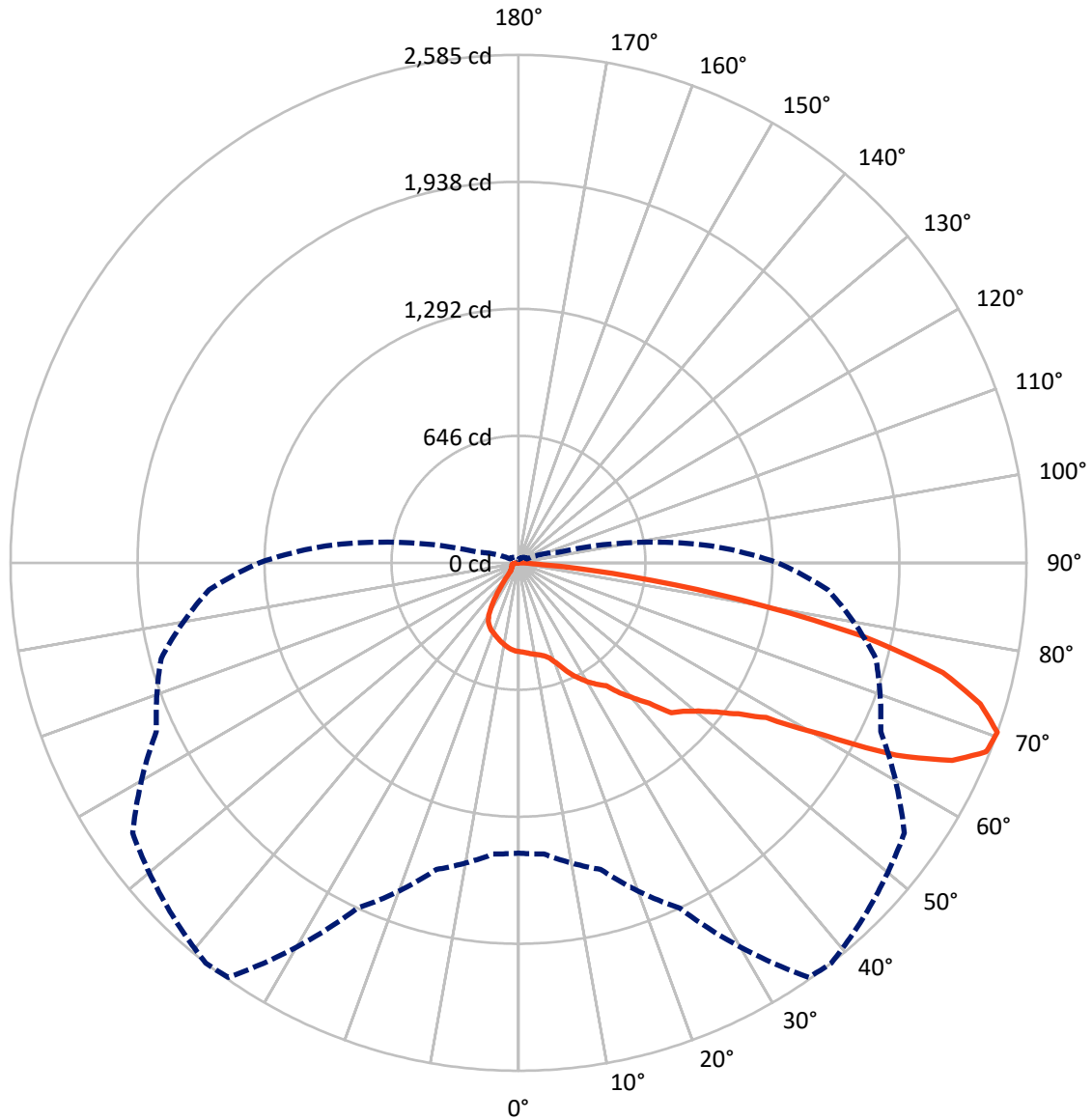
× Max cd  
 - - - 1/2 Max cd



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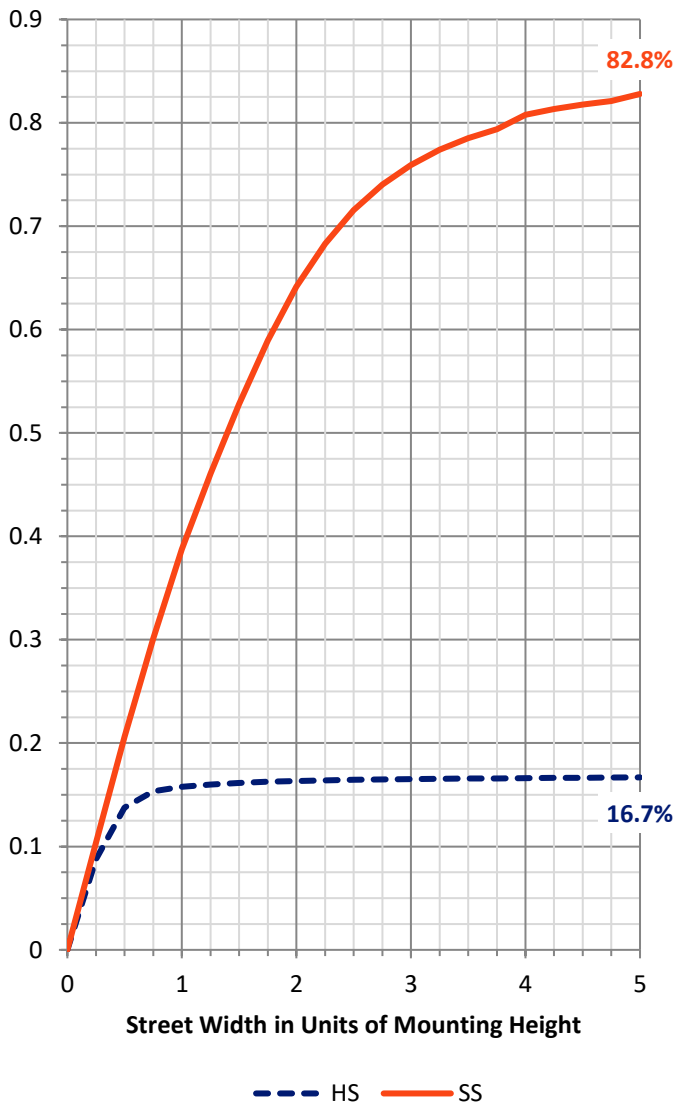
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	712.4	0.0	712.4
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	3498.8	0.0	3498.8
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	4211.2	0.0	4211.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.2	1.0
10°-20°	130.8	3.1
20°-30°	240.8	5.7
30°-40°	376.9	9.0
40°-50°	572.6	13.6
50°-60°	823.3	19.6
60°-70°	1106.1	26.3
70°-80°	819.5	19.5
80°-90°	98.0	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°	4211.2	100.0
0°-180°	4211.2	100.0



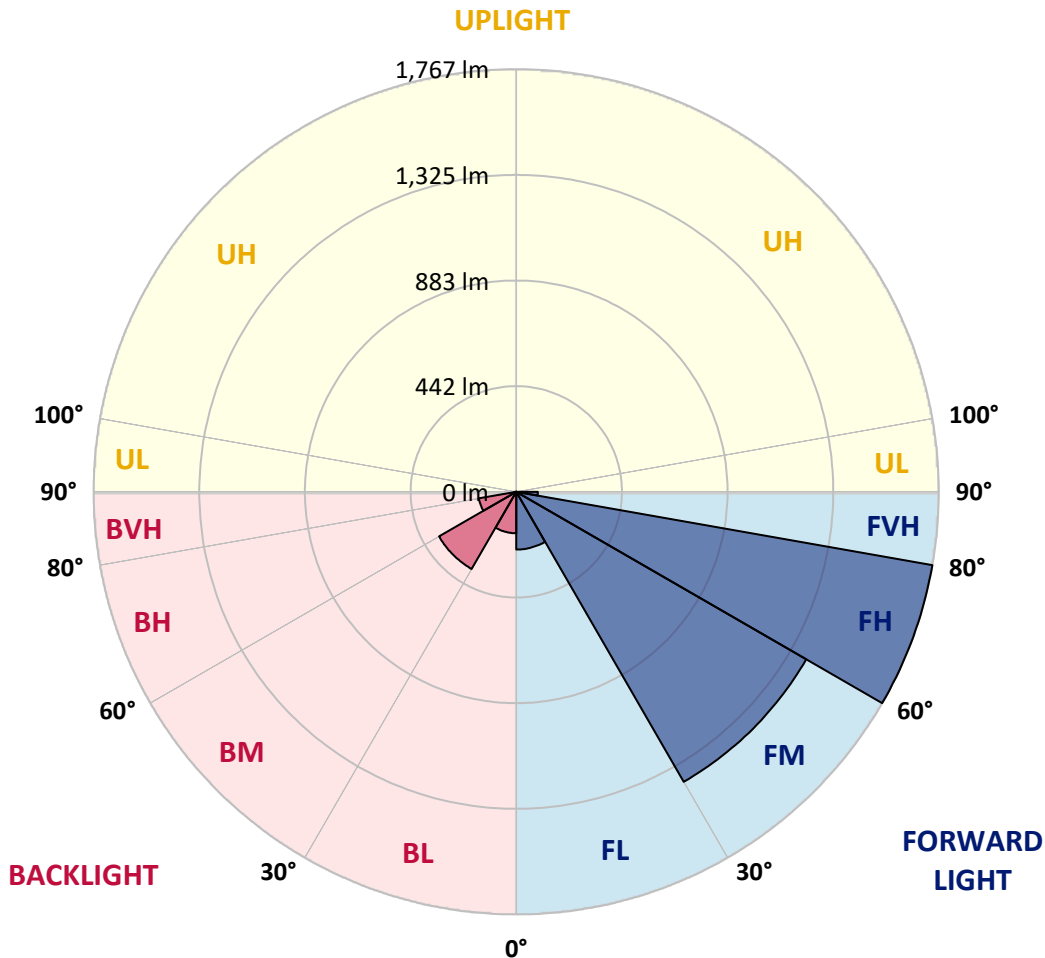
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.4	5.7			
FM (30°-60°)	1400.2	33.2			
FH (60°-80°)	1767.0	42.0			G1/1800
FVH (80°-90°)	90.2	2.1			G1/100
BL (0°-30°)	173.3	4.1	B1/500		
BM (30°-60°)	372.7	8.8	B1/1000		
BH (60°-80°)	158.6	3.8	B1/500		G1/500
BVH (80°-90°)	7.9	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4
2.5°	458.1	458.1	458.1	456.7	456.7	455.4	455.4	454.0	454.0	452.8	451.4
5°	464.7	464.7	463.3	462.1	460.7	460.7	460.7	459.3	456.7	456.7	454.0
7.5°	467.4	467.4	467.4	467.4	467.4	467.4	467.4	466.0	464.7	463.3	460.7
10°	468.6	468.6	470.0	470.0	472.7	474.0	474.0	475.3	474.0	471.4	468.6
12.5°	472.7	474.0	474.0	475.3	479.3	480.7	482.0	486.0	486.0	483.4	480.7
15°	480.7	480.7	482.0	484.6	490.0	491.3	495.3	499.4	502.0	499.4	496.6
17.5°	504.7	504.7	504.7	504.7	507.3	508.7	514.0	520.6	523.3	523.3	521.9
20°	552.5	552.5	549.9	544.6	541.9	541.9	540.6	543.2	548.6	552.5	553.9
22.5°	607.2	605.8	604.5	596.5	587.2	584.5	581.9	579.2	581.9	588.5	591.2
25°	649.7	651.1	649.7	639.2	631.1	629.8	625.8	627.1	627.1	628.5	632.5
27.5°	684.4	687.0	681.7	676.4	671.0	667.1	669.8	673.8	680.3	677.7	685.8
30°	723.0	721.7	716.4	709.7	705.7	704.4	703.0	717.6	736.3	744.3	753.6
32.5°	792.2	790.9	780.2	747.0	737.6	737.6	740.3	758.9	788.3	813.6	837.5
35°	856.2	856.2	842.8	820.1	780.2	768.3	774.9	797.6	840.2	890.8	929.3
37.5°	932.1	933.4	918.8	884.1	852.1	840.2	808.2	840.2	892.1	989.3	1037.3
40°	1019.9	1017.2	993.3	956.0	914.7	905.4	878.8	885.4	958.7	1105.2	1151.8
42.5°	1069.1	1066.5	1050.5	1021.3	988.0	977.3	953.4	946.7	1047.9	1233.0	1263.6
45°	1117.1	1119.8	1118.5	1103.8	1095.8	1089.2	1075.8	1077.2	1158.4	1359.4	1360.8
47.5°	1145.1	1150.4	1129.1	1127.8	1129.1	1129.1	1147.7	1185.0	1263.6	1467.4	1446.0
50°	1227.7	1222.3	1157.0	1159.7	1177.1	1185.0	1219.6	1274.3	1410.1	1560.6	1519.3
52.5°	1394.1	1356.8	1274.3	1234.2	1240.9	1260.9	1302.2	1380.7	1556.5	1652.4	1584.5
55°	1580.5	1564.5	1479.3	1376.8	1331.5	1356.8	1400.7	1483.2	1672.4	1731.0	1639.0
57.5°	1709.7	1716.4	1719.0	1636.4	1477.9	1486.0	1514.0	1585.8	1776.2	1810.8	1680.3
60°	1834.7	1844.1	1894.7	1882.7	1830.8	1772.3	1663.1	1687.0	1865.5	1868.1	1712.3
62.5°	1934.6	1940.0	2021.3	2058.5	2151.7	2155.6	1978.6	1826.8	1956.0	1909.4	1724.3
65°	1884.1	1898.7	2017.2	2130.3	2395.3	2424.7	2355.4	2005.3	2025.2	1928.1	1716.4
67.5°	1713.6	1737.6	1849.5	2109.0	2547.2	2567.1	2505.9	2328.8	2050.5	1921.4	1672.4
70°	1476.7	1487.3	1615.1	1938.6	2575.2	2584.5	2508.5	2396.7	2033.2	1882.7	1580.5
72.5°	1201.0	1213.0	1323.5	1667.0	2448.6	2456.6	2436.6	2343.4	1991.9	1810.8	1394.1
75°	901.4	920.0	1025.3	1302.2	2162.3	2230.2	2271.5	2231.6	1877.4	1572.5	1061.2
77.5°	595.2	596.5	703.0	984.0	1713.6	1781.6	1788.1	1754.9	1332.9	986.6	471.4
80°	255.7	279.6	411.5	660.4	1138.4	1150.4	1163.7	1075.8	683.1	304.9	51.9
82.5°	85.3	94.6	173.1	348.9	560.6	573.9	549.9	476.7	191.7	41.3	29.3
85°	35.9	39.9	53.3	95.8	135.8	123.8	115.9	94.6	26.6	23.9	18.6
87.5°	1.4	1.4	1.4	1.4	2.6	1.4	2.6	2.6	4.0	4.0	5.3
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°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4
2.5°	451.4	451.4	451.4	450.0	450.0	448.7	448.7	447.4	447.4	447.4	447.4
5°	454.0	454.0	451.4	450.0	447.4	444.7	442.1	439.4	436.8	436.8	436.8
7.5°	459.3	458.1	454.0	448.7	443.4	436.8	432.7	427.4	424.8	422.0	423.4
10°	467.4	464.7	459.3	451.4	440.7	430.1	420.8	412.7	408.8	404.8	403.4
12.5°	478.0	475.3	467.4	455.4	439.4	423.4	408.8	396.8	388.8	384.8	383.5
15°	494.0	490.0	479.3	462.1	439.4	415.5	395.5	378.1	364.9	356.8	356.8
17.5°	519.3	515.2	500.6	476.7	444.7	411.5	380.8	351.5	334.2	324.9	323.5
20°	552.5	547.2	530.0	495.3	454.0	410.1	364.9	327.6	298.2	282.2	281.0
22.5°	591.2	587.2	560.6	515.2	463.3	407.4	352.9	303.5	262.3	233.0	226.3
25°	636.5	629.8	589.8	531.2	466.0	400.8	335.5	278.3	221.0	185.1	178.5
27.5°	689.7	675.1	616.5	543.2	464.7	387.5	315.6	242.3	167.8	141.2	137.2
30°	747.0	721.7	643.1	551.3	456.7	366.1	281.0	181.1	121.2	105.2	101.1
32.5°	812.2	772.3	667.1	552.5	439.4	336.9	222.4	123.8	86.5	77.2	75.9
35°	890.8	836.1	692.4	547.2	414.1	288.9	154.4	83.9	63.9	61.2	61.2
37.5°	993.3	917.4	720.4	531.2	375.4	223.7	102.5	57.3	55.9	57.3	57.3
40°	1101.1	1010.6	754.9	507.3	326.2	161.1	65.2	53.3	53.3	54.5	54.5
42.5°	1203.6	1099.9	798.9	475.3	270.3	103.9	53.3	50.6	49.2	50.6	51.9
45°	1290.2	1183.7	841.5	440.7	206.4	66.6	51.9	48.0	45.2	46.6	46.6
47.5°	1367.5	1247.6	865.5	399.5	145.1	51.9	51.9	44.0	41.3	41.3	42.6
50°	1432.7	1298.2	878.8	351.5	91.8	50.6	46.6	41.3	38.7	38.7	37.3
52.5°	1487.3	1335.5	877.4	298.2	59.9	49.2	44.0	38.7	34.6	35.9	35.9
55°	1528.6	1364.7	857.4	229.0	50.6	46.6	42.6	35.9	33.3	35.9	35.9
57.5°	1560.6	1378.1	820.1	159.8	49.2	42.6	39.9	33.3	30.6	32.0	32.0
60°	1576.4	1371.4	761.6	99.9	48.0	41.3	37.3	30.6	28.0	26.6	28.0
62.5°	1571.1	1347.5	677.7	66.6	45.2	38.7	34.6	29.3	25.3	22.7	22.7
65°	1539.2	1294.2	577.8	55.9	44.0	38.7	33.3	28.0	22.7	21.3	21.3
67.5°	1467.4	1183.7	428.7	51.9	44.0	37.3	32.0	26.6	22.7	20.0	20.0
70°	1319.5	985.3	206.4	48.0	44.0	38.7	32.0	25.3	21.3	18.6	18.6
72.5°	1067.9	696.3	53.3	41.3	42.6	38.7	33.3	25.3	20.0	17.3	17.3
75°	696.3	334.2	45.2	33.3	38.7	35.9	32.0	25.3	20.0	16.0	16.0
77.5°	226.3	46.6	41.3	29.3	34.6	34.6	32.0	25.3	20.0	14.6	14.6
80°	35.9	33.3	35.9	22.7	25.3	29.3	25.3	23.9	18.6	13.3	13.3
82.5°	25.3	30.6	26.6	18.6	22.7	23.9	20.0	16.0	13.3	12.0	12.0
85°	18.6	20.0	16.0	14.6	17.3	20.0	16.0	12.0	10.7	10.7	10.7
87.5°	6.7	7.9	7.9	10.7	13.3	14.6	9.3	6.7	7.9	7.9	7.9
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)