

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: P507500

Luminaire Tested: **VERD-S-CA1-30-740-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507500  
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-CA1-30-740-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 590mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4288.3 lumens  
Efficiency: N/A  
Efficacy: 126.1 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

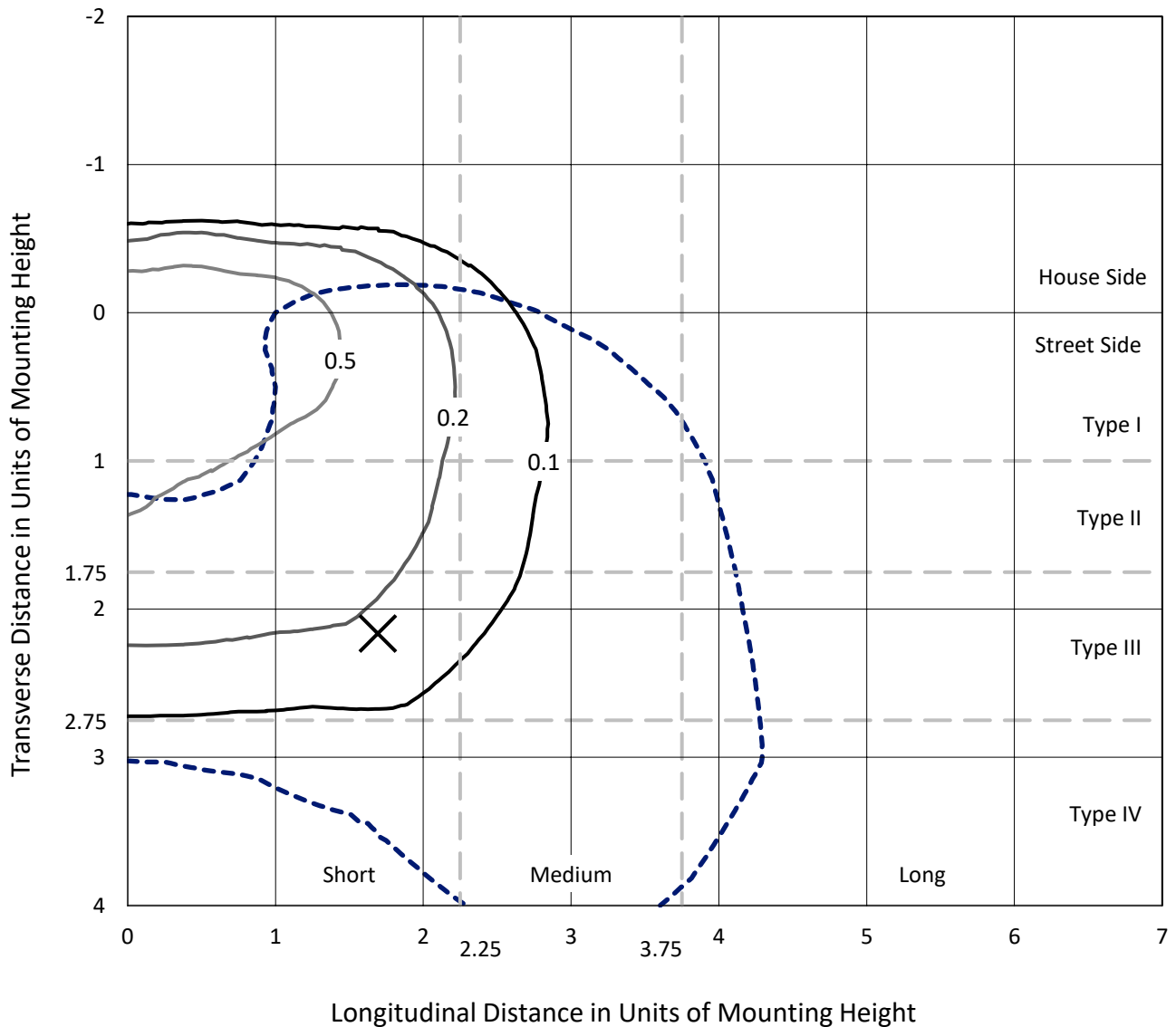
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

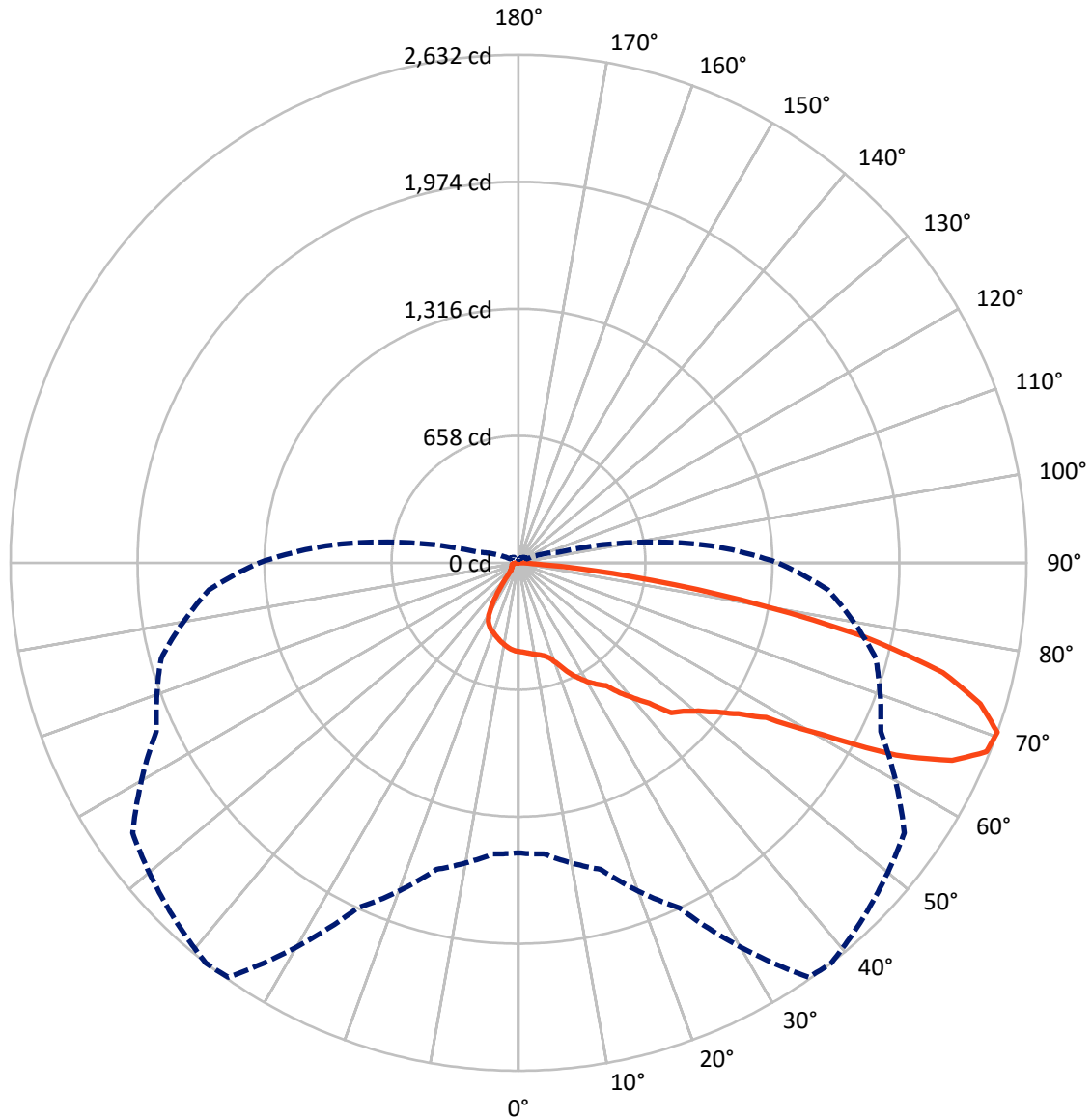
× Max cd  
 - - - 1/2 Max cd



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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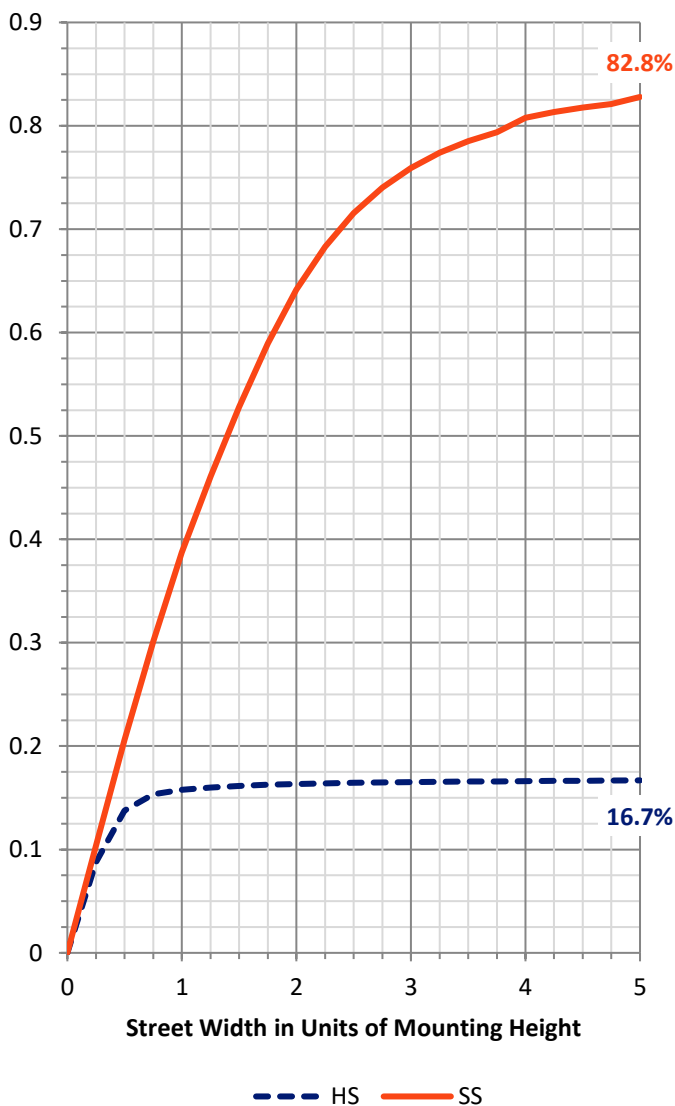
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	725.5	0.0	725.5
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	3562.8	0.0	3562.8
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	4288.3	0.0	4288.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	1.0
10°-20°	133.2	3.1
20°-30°	245.2	5.7
30°-40°	383.8	9.0
40°-50°	583.1	13.6
50°-60°	838.4	19.6
60°-70°	1126.4	26.3
70°-80°	834.5	19.5
80°-90°	99.8	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°	4288.3	100.0
0°-180°	4288.3	100.0

**Coefficient of Utilization**



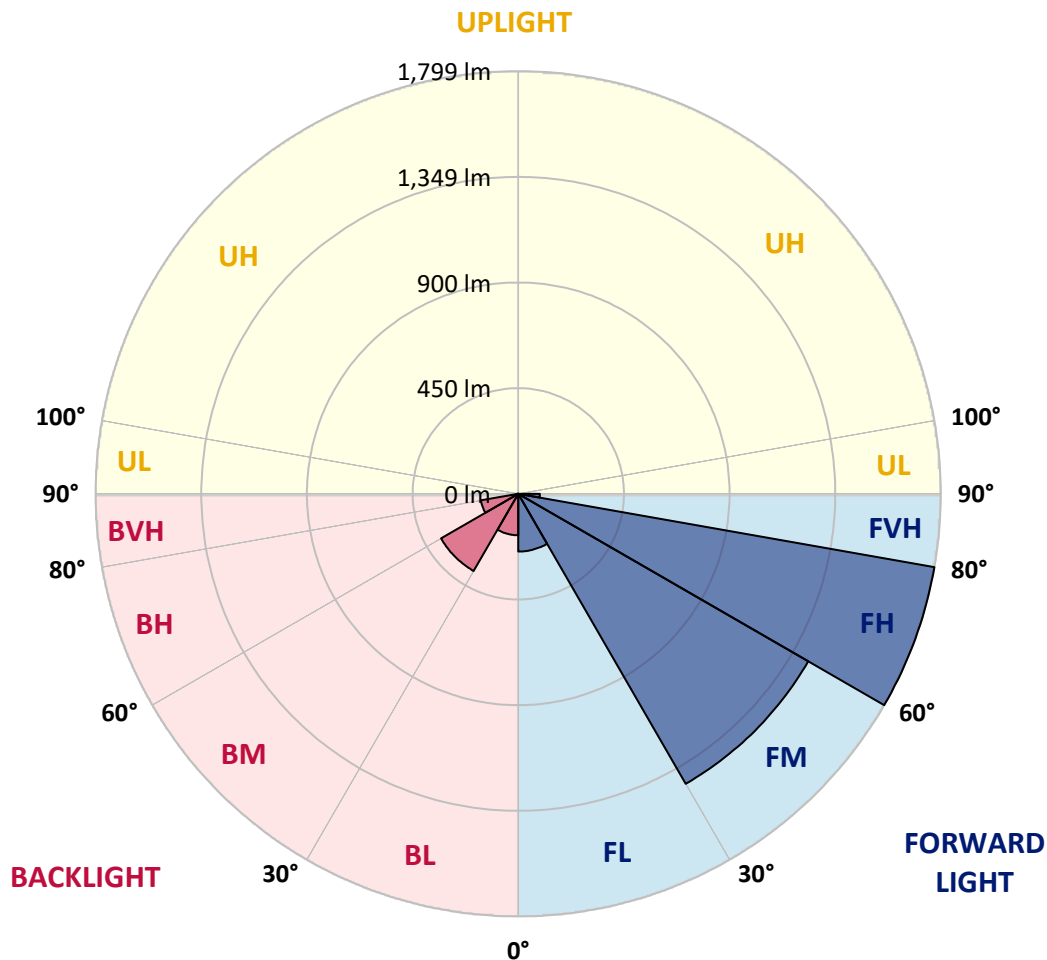
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.9	5.7			
FM (30°-60°)	1425.8	33.2			
FH (60°-80°)	1799.3	42.0			G1/1800
FVH (80°-90°)	91.8	2.1			G1/100
BL (0°-30°)	176.5	4.1	B1/500		
BM (30°-60°)	379.5	8.8	B1/1000		
BH (60°-80°)	161.5	3.8	B1/500		G1/500
BVH (80°-90°)	8.0	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°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	466.5	466.5	466.5	465.1	465.1	463.7	463.7	462.3	462.3	461.0	459.7
5°	473.2	473.2	471.9	470.5	469.1	469.1	469.1	467.7	465.1	465.1	462.3
7.5°	475.9	475.9	475.9	475.9	475.9	475.9	475.9	474.5	473.2	471.9	469.1
10°	477.3	477.3	478.6	478.6	481.3	482.7	482.7	484.1	482.7	480.0	477.3
12.5°	481.3	482.7	482.7	484.1	488.1	489.5	490.8	494.9	494.9	492.2	489.5
15°	489.5	489.5	490.8	493.5	499.0	500.3	504.4	508.5	511.2	508.5	505.7
17.5°	513.9	513.9	513.9	513.9	516.6	517.9	523.4	530.2	532.8	532.8	531.5
20°	562.6	562.6	560.0	554.6	551.8	551.8	550.4	553.2	558.6	562.6	564.0
22.5°	618.3	617.0	615.6	607.4	598.0	595.2	592.6	589.8	592.6	599.3	602.0
25°	661.7	663.0	661.7	650.8	642.7	641.3	637.2	638.6	638.6	640.0	644.0
27.5°	696.9	699.7	694.2	688.7	683.3	679.3	682.0	686.1	692.9	690.1	698.3
30°	736.3	734.9	729.5	722.7	718.7	717.3	715.9	730.9	749.8	757.9	767.5
32.5°	806.7	805.4	794.5	760.7	751.1	751.1	753.9	772.9	802.7	828.4	852.8
35°	871.8	871.8	858.2	835.2	794.5	782.3	789.1	812.2	855.6	907.1	946.4
37.5°	949.1	950.5	935.6	900.3	867.8	855.6	823.0	855.6	908.4	1007.5	1056.3
40°	1038.6	1035.9	1011.5	973.5	931.5	922.0	894.8	901.6	976.2	1125.4	1172.8
42.5°	1088.8	1086.1	1069.8	1039.9	1006.1	995.2	970.8	964.0	1067.1	1255.5	1286.7
45°	1137.6	1140.2	1139.0	1124.0	1115.9	1109.1	1095.5	1096.9	1179.6	1384.3	1385.7
47.5°	1166.0	1171.4	1149.8	1148.4	1149.8	1149.8	1168.8	1206.7	1286.7	1494.2	1472.4
50°	1250.1	1244.7	1178.2	1181.0	1198.6	1206.7	1242.0	1297.5	1435.8	1589.1	1547.1
52.5°	1419.6	1381.6	1297.5	1256.9	1263.7	1284.0	1326.1	1406.0	1585.1	1682.6	1613.5
55°	1609.5	1593.1	1506.4	1402.0	1355.9	1381.6	1426.4	1510.4	1703.0	1762.6	1669.1
57.5°	1741.0	1747.8	1750.4	1666.4	1505.0	1513.2	1541.6	1614.9	1808.7	1844.0	1711.1
60°	1868.3	1877.9	1929.4	1917.2	1864.3	1804.7	1693.5	1717.8	1899.5	1902.3	1743.6
62.5°	1970.1	1975.5	2058.2	2096.2	2191.1	2195.1	2014.8	1860.3	1991.8	1944.3	1755.8
65°	1918.5	1933.5	2054.2	2169.3	2439.2	2469.1	2398.5	2042.0	2062.2	1963.3	1747.8
67.5°	1745.0	1769.4	1883.3	2147.7	2593.8	2614.2	2551.8	2371.4	2088.0	1956.5	1703.0
70°	1503.6	1514.5	1644.7	1974.2	2622.2	2631.8	2554.4	2440.5	2070.4	1917.2	1609.5
72.5°	1223.0	1235.2	1347.7	1697.6	2493.5	2501.6	2481.3	2386.3	2028.4	1844.0	1419.6
75°	917.9	936.9	1044.1	1326.1	2201.9	2271.1	2313.2	2272.4	1911.7	1601.3	1080.6
77.5°	606.0	607.4	715.9	1001.9	1745.0	1814.2	1820.9	1787.0	1357.2	1004.7	480.0
80°	260.4	284.8	418.9	672.5	1159.2	1171.4	1185.0	1095.5	695.5	310.5	52.9
82.5°	86.8	96.3	176.3	355.2	570.8	584.4	560.0	485.4	195.3	42.0	29.8
85°	36.6	40.7	54.2	97.6	138.3	126.1	117.9	96.3	27.2	24.4	19.0
87.5°	1.4	1.4	1.4	1.4	2.8	1.4	2.8	2.8	4.0	4.0	5.4
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°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	459.7	459.7	459.7	458.3	458.3	456.9	456.9	455.5	455.5	455.5	455.5
5°	462.3	462.3	459.7	458.3	455.5	452.9	450.1	447.5	444.7	444.7	444.7
7.5°	467.7	466.5	462.3	456.9	451.5	444.7	440.7	435.3	432.5	429.9	431.1
10°	475.9	473.2	467.7	459.7	448.8	437.9	428.5	420.3	416.3	412.1	410.9
12.5°	486.7	484.1	475.9	463.7	447.5	431.1	416.3	404.1	395.9	391.9	390.5
15°	503.0	499.0	488.1	470.5	447.5	423.1	402.7	385.1	371.5	363.4	363.4
17.5°	528.8	524.7	509.8	485.4	452.9	418.9	387.8	358.0	340.3	330.8	329.5
20°	562.6	557.2	539.6	504.4	462.3	417.6	371.5	333.6	303.8	287.4	286.0
22.5°	602.0	598.0	570.8	524.7	471.9	414.9	359.3	309.2	267.1	237.3	230.5
25°	648.1	641.3	600.6	541.0	474.5	408.1	341.7	283.4	225.1	188.5	181.7
27.5°	702.3	687.4	627.8	553.2	473.2	394.5	321.4	246.8	170.9	143.7	139.7
30°	760.7	734.9	654.9	561.4	465.1	372.9	286.0	184.4	123.3	107.1	103.1
32.5°	827.1	786.4	679.3	562.6	447.5	343.0	226.4	126.1	88.1	78.6	77.3
35°	907.1	851.4	705.1	557.2	421.7	294.2	157.3	85.4	65.1	62.4	62.4
37.5°	1011.5	934.2	733.5	541.0	382.3	227.8	104.4	58.3	57.0	58.3	58.3
40°	1121.3	1029.1	768.8	516.6	332.2	164.1	66.4	54.2	54.2	55.6	55.6
42.5°	1225.7	1120.0	813.5	484.1	275.2	105.7	54.2	51.5	50.2	51.5	52.9
45°	1313.9	1205.4	856.9	448.8	210.2	67.8	52.9	48.8	46.1	47.4	47.4
47.5°	1392.5	1270.5	881.4	406.7	147.7	52.9	52.9	44.8	42.0	42.0	43.4
50°	1459.0	1321.9	894.8	358.0	93.5	51.5	47.4	42.0	39.4	39.4	38.0
52.5°	1514.5	1359.9	893.6	303.8	61.0	50.2	44.8	39.4	35.2	36.6	36.6
55°	1556.5	1389.8	873.2	233.2	51.5	47.4	43.4	36.6	33.9	36.6	36.6
57.5°	1589.1	1403.3	835.2	162.7	50.2	43.4	40.7	33.9	31.2	32.6	32.6
60°	1605.3	1396.6	775.5	101.7	48.8	42.0	38.0	31.2	28.4	27.2	28.4
62.5°	1599.9	1372.1	690.1	67.8	46.1	39.4	35.2	29.8	25.8	23.0	23.0
65°	1567.3	1317.9	588.4	57.0	44.8	39.4	33.9	28.4	23.0	21.7	21.7
67.5°	1494.2	1205.4	436.5	52.9	44.8	38.0	32.6	27.2	23.0	20.4	20.4
70°	1343.7	1003.3	210.2	48.8	44.8	39.4	32.6	25.8	21.7	19.0	19.0
72.5°	1087.4	709.1	54.2	42.0	43.4	39.4	33.9	25.8	20.4	17.6	17.6
75°	709.1	340.3	46.1	33.9	39.4	36.6	32.6	25.8	20.4	16.2	16.2
77.5°	230.5	47.4	42.0	29.8	35.2	35.2	32.6	25.8	20.4	15.0	15.0
80°	36.6	33.9	36.6	23.0	25.8	29.8	25.8	24.4	19.0	13.6	13.6
82.5°	25.8	31.2	27.2	19.0	23.0	24.4	20.4	16.2	13.6	12.2	12.2
85°	19.0	20.4	16.2	15.0	17.6	20.4	16.2	12.2	10.8	10.8	10.8
87.5°	6.8	8.2	8.2	10.8	13.6	15.0	9.4	6.8	8.2	8.2	8.2
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)