

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: P507524

Luminaire Tested: **VERD-S-CA1-40-722-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507524
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-CA1-40-722-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 760mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4438 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

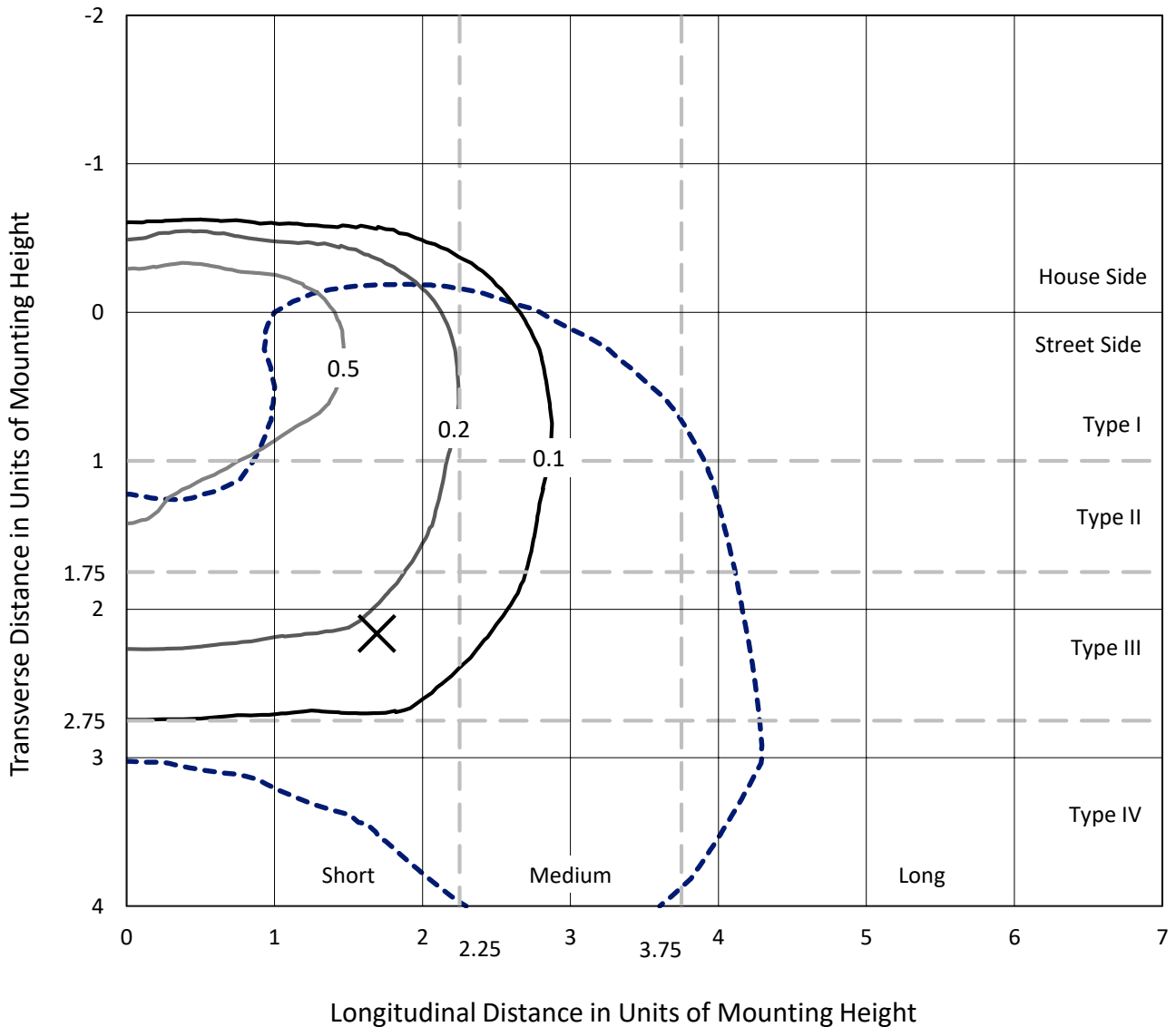
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

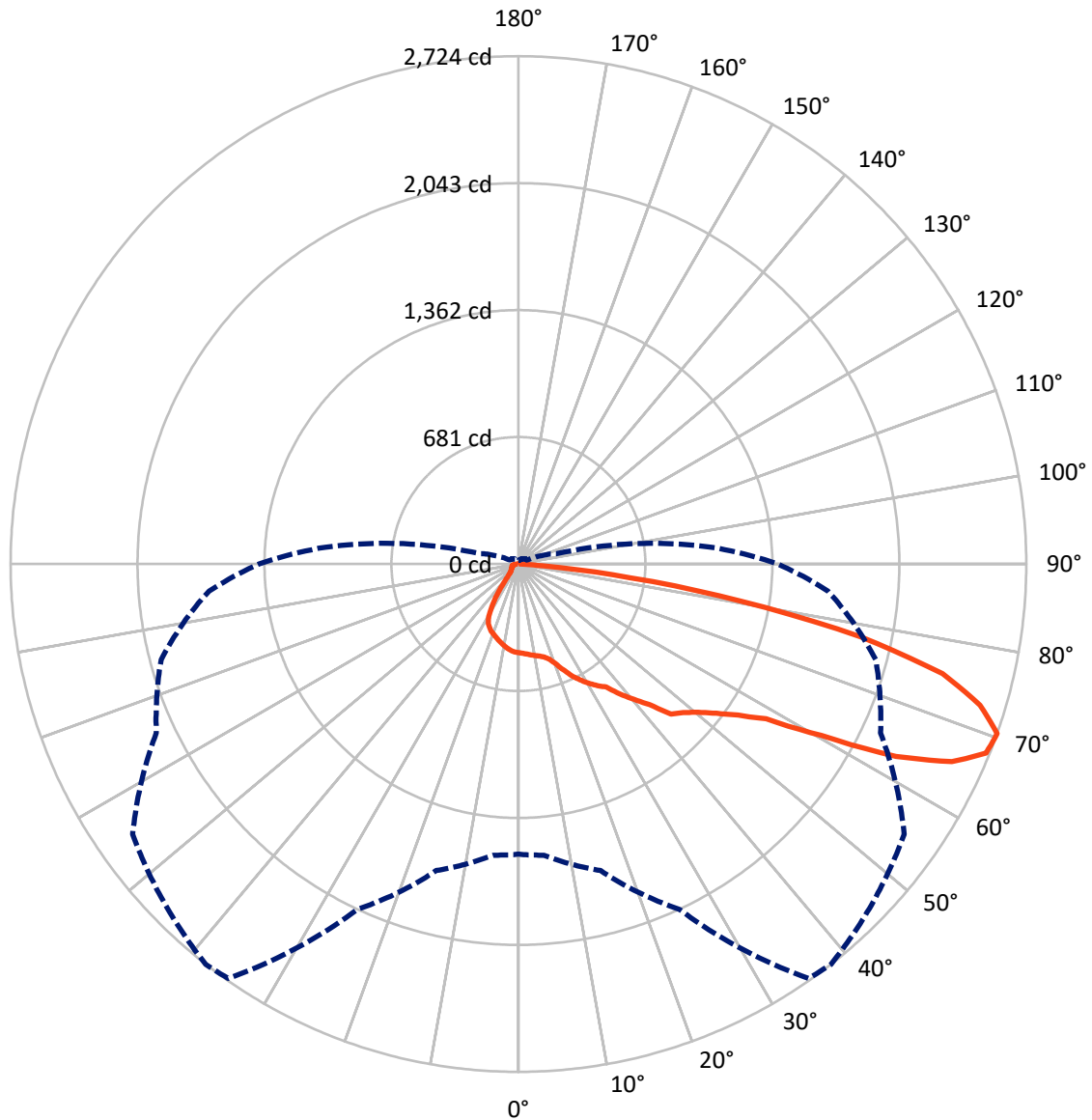
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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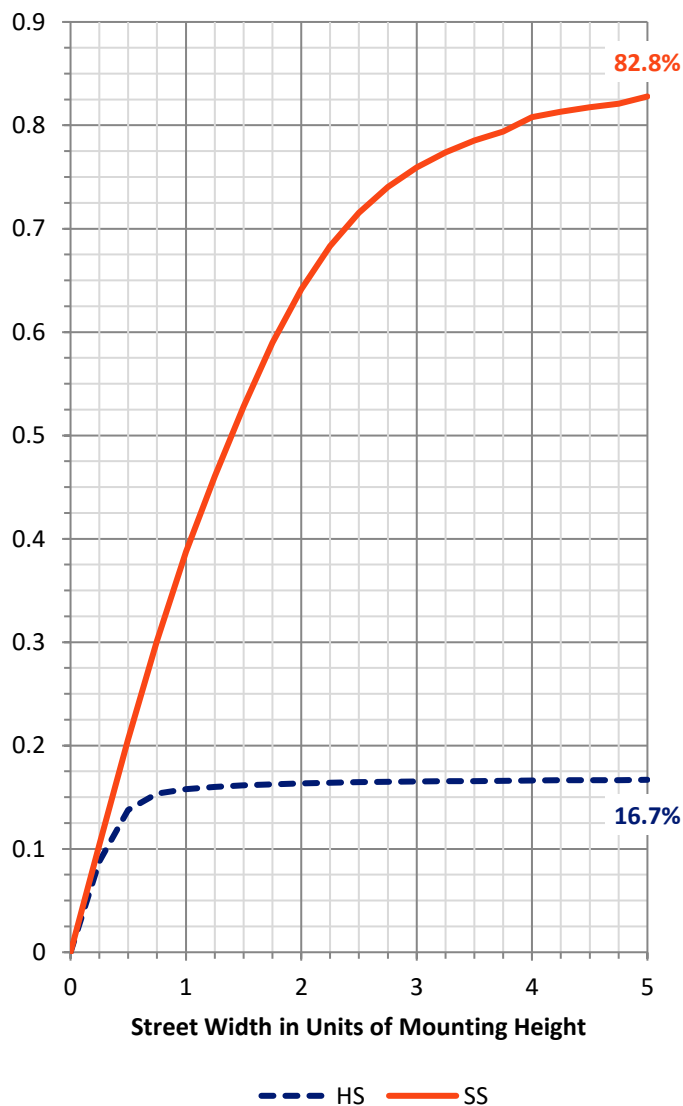
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.8	0.0	750.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3687.2	0.0	3687.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	4438.0	0.0	4438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	1.0
10°-20°	137.8	3.1
20°-30°	253.7	5.7
30°-40°	397.2	9.0
40°-50°	603.5	13.6
50°-60°	867.7	19.6
60°-70°	1165.7	26.3
70°-80°	863.6	19.5
80°-90°	103.3	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°	4438.0	100.0
0°-180°	4438.0	100.0

Coefficient of Utilization



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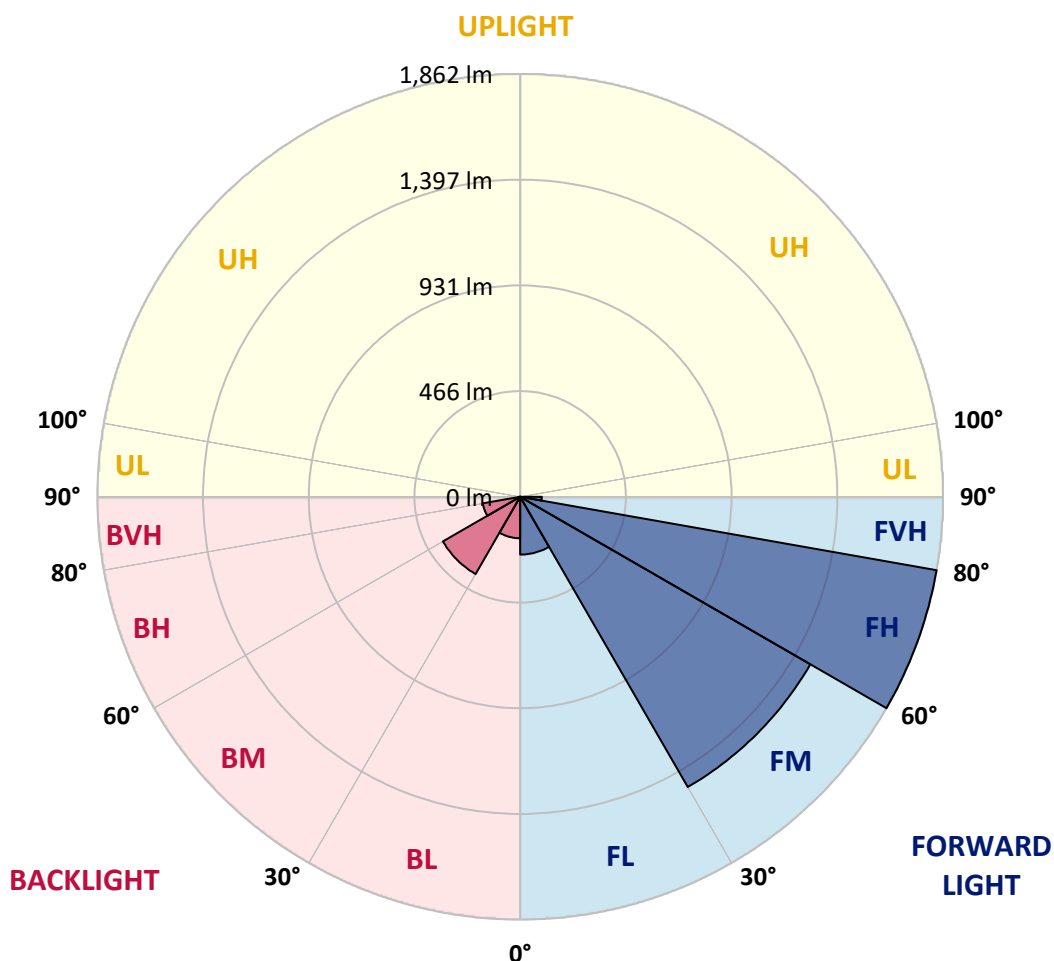
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.4	5.7			
FM (30°-60°)	1475.6	33.2			
FH (60°-80°)	1862.2	42.0			G2/5000
FVH (80°-90°)	95.0	2.1			G1/100
BL (0°-30°)	182.6	4.1	B1/500		
BM (30°-60°)	392.7	8.8	B1/1000		
BH (60°-80°)	167.2	3.8	B1/500		G1/500
BVH (80°-90°)	8.3	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	482.7	482.7	482.7	481.3	481.3	479.9	479.9	478.5	478.5	477.1	475.7
5°	489.7	489.7	488.3	486.9	485.5	485.5	485.5	484.1	481.3	481.3	478.5
7.5°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	491.1	489.7	488.3	485.5
10°	493.9	493.9	495.3	495.3	498.1	499.5	499.5	500.9	499.5	496.7	493.9
12.5°	498.1	499.5	499.5	500.9	505.2	506.6	508.0	512.2	512.2	509.4	506.6
15°	506.6	506.6	508.0	510.8	516.4	517.8	522.0	526.2	529.0	526.2	523.4
17.5°	531.8	531.8	531.8	531.8	534.6	536.0	541.6	548.7	551.5	551.5	550.1
20°	582.3	582.3	579.5	573.9	571.1	571.1	569.7	572.5	578.1	582.3	583.7
22.5°	639.9	638.5	637.1	628.6	618.8	616.0	613.2	610.4	613.2	620.2	623.0
25°	684.8	686.2	684.8	673.5	665.1	663.7	659.5	660.9	660.9	662.3	666.5
27.5°	721.2	724.1	718.4	712.8	707.2	703.0	705.8	710.0	717.0	714.2	722.7
30°	761.9	760.5	754.9	747.9	743.7	742.3	740.9	756.3	776.0	784.4	794.2
32.5°	834.9	833.5	822.3	787.2	777.4	777.4	780.2	799.8	830.7	857.4	882.6
35°	902.3	902.3	888.2	864.4	822.3	809.6	816.7	840.5	885.4	938.7	979.4
37.5°	982.2	983.6	968.2	931.7	898.1	885.4	851.7	885.4	940.1	1042.6	1093.1
40°	1074.9	1072.0	1046.8	1007.5	964.0	954.2	926.1	933.1	1010.3	1164.7	1213.8
42.5°	1126.8	1124.0	1107.1	1076.3	1041.2	1030.0	1004.7	997.7	1104.3	1299.4	1331.6
45°	1177.3	1180.1	1178.7	1163.3	1154.8	1147.8	1133.8	1135.2	1220.8	1432.7	1434.1
47.5°	1206.8	1212.4	1189.9	1188.5	1189.9	1189.9	1209.6	1248.9	1331.6	1546.3	1523.9
50°	1293.8	1288.1	1219.4	1222.2	1240.4	1248.9	1285.3	1342.9	1486.0	1644.6	1601.1
52.5°	1469.2	1429.9	1342.9	1300.8	1307.8	1328.8	1372.3	1455.1	1640.3	1741.4	1669.8
55°	1665.6	1648.8	1559.0	1450.9	1403.2	1429.9	1476.2	1563.2	1762.4	1824.2	1727.3
57.5°	1801.7	1808.7	1811.5	1724.5	1557.6	1566.0	1595.4	1671.2	1871.9	1908.4	1770.8
60°	1933.6	1943.4	1996.8	1984.1	1929.4	1867.7	1752.6	1777.9	1965.9	1968.7	1804.5
62.5°	2038.9	2044.5	2130.1	2169.4	2267.6	2271.8	2085.2	1925.2	2061.3	2012.2	1817.2
65°	1985.5	2001.0	2125.9	2245.1	2524.4	2555.2	2482.3	2113.2	2134.3	2031.8	1808.7
67.5°	1805.9	1831.2	1949.1	2222.7	2684.3	2705.4	2640.8	2454.2	2160.9	2024.8	1762.4
70°	1556.2	1567.4	1702.1	2043.1	2713.8	2723.6	2643.6	2525.8	2142.7	1984.1	1665.6
72.5°	1265.7	1278.3	1394.8	1756.8	2580.5	2588.9	2567.9	2469.6	2099.2	1908.4	1469.2
75°	950.0	969.6	1080.5	1372.3	2278.8	2350.4	2393.9	2351.8	1978.5	1657.2	1118.4
77.5°	627.2	628.6	740.9	1037.0	1805.9	1877.5	1884.5	1849.4	1404.6	1039.8	496.7
80°	269.4	294.7	433.6	696.0	1199.7	1212.4	1226.4	1133.8	719.8	321.3	54.7
82.5°	89.8	99.6	182.4	367.6	590.7	604.8	579.5	502.3	202.1	43.5	30.9
85°	37.9	42.1	56.1	101.0	143.1	130.5	122.1	99.6	28.1	25.3	19.6
87.5°	1.4	1.4	1.4	1.4	2.8	1.4	2.8	2.8	4.2	4.2	5.6
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°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	475.7	475.7	475.7	474.3	474.3	472.9	472.9	471.5	471.5	471.5	471.5
5°	478.5	478.5	475.7	474.3	471.5	468.7	465.9	463.1	460.3	460.3	460.3
7.5°	484.1	482.7	478.5	472.9	467.3	460.3	456.0	450.4	447.6	444.8	446.2
10°	492.5	489.7	484.1	475.7	464.5	453.2	443.4	435.0	430.8	426.6	425.2
12.5°	503.8	500.9	492.5	479.9	463.1	446.2	430.8	418.2	409.7	405.5	404.1
15°	520.6	516.4	505.2	486.9	463.1	437.8	416.8	398.5	384.5	376.1	376.1
17.5°	547.3	543.0	527.6	502.3	468.7	433.6	401.3	370.4	352.2	342.4	341.0
20°	582.3	576.7	558.5	522.0	478.5	432.2	384.5	345.2	314.3	297.5	296.1
22.5°	623.0	618.8	590.7	543.0	488.3	429.4	371.8	319.9	276.4	245.6	238.5
25°	670.7	663.7	621.6	559.9	491.1	422.4	353.6	293.3	232.9	195.0	188.0
27.5°	726.9	711.4	649.7	572.5	489.7	408.3	332.6	255.4	176.8	148.7	144.5
30°	787.2	760.5	677.7	580.9	481.3	385.9	296.1	190.8	127.7	110.9	106.6
32.5°	856.0	813.9	703.0	582.3	463.1	355.0	234.3	130.5	91.2	81.4	80.0
35°	938.7	881.2	729.7	576.7	436.4	304.5	162.8	88.4	67.4	64.5	64.5
37.5°	1046.8	966.8	759.1	559.9	395.7	235.7	108.0	60.3	58.9	60.3	60.3
40°	1160.5	1065.0	795.6	534.6	343.8	169.8	68.8	56.1	56.1	57.5	57.5
42.5°	1268.5	1159.0	841.9	500.9	284.9	109.5	56.1	53.3	51.9	53.3	54.7
45°	1359.7	1247.4	886.8	464.5	217.5	70.2	54.7	50.5	47.7	49.1	49.1
47.5°	1441.1	1314.8	912.1	421.0	152.9	54.7	54.7	46.3	43.5	43.5	44.9
50°	1509.8	1368.1	926.1	370.4	96.8	53.3	49.1	43.5	40.7	40.7	39.3
52.5°	1567.4	1407.4	924.7	314.3	63.1	51.9	46.3	40.7	36.5	37.9	37.9
55°	1610.9	1438.3	903.7	241.4	53.3	49.1	44.9	37.9	35.1	37.9	37.9
57.5°	1644.6	1452.3	864.4	168.4	51.9	44.9	42.1	35.1	32.3	33.7	33.7
60°	1661.4	1445.3	802.6	105.2	50.5	43.5	39.3	32.3	29.5	28.1	29.5
62.5°	1655.8	1420.0	714.2	70.2	47.7	40.7	36.5	30.9	26.7	23.9	23.9
65°	1622.1	1363.9	609.0	58.9	46.3	40.7	35.1	29.5	23.9	22.5	22.5
67.5°	1546.3	1247.4	451.8	54.7	46.3	39.3	33.7	28.1	23.9	21.0	21.0
70°	1390.6	1038.4	217.5	50.5	46.3	40.7	33.7	26.7	22.5	19.6	19.6
72.5°	1125.4	733.9	56.1	43.5	44.9	40.7	35.1	26.7	21.0	18.2	18.2
75°	733.9	352.2	47.7	35.1	40.7	37.9	33.7	26.7	21.0	16.8	16.8
77.5°	238.5	49.1	43.5	30.9	36.5	36.5	33.7	26.7	21.0	15.4	15.4
80°	37.9	35.1	37.9	23.9	26.7	30.9	26.7	25.3	19.6	14.0	14.0
82.5°	26.7	32.3	28.1	19.6	23.9	25.3	21.0	16.8	14.0	12.6	12.6
85°	19.6	21.0	16.8	15.4	18.2	21.0	16.8	12.6	11.2	11.2	11.2
87.5°	7.0	8.4	8.4	11.2	14.0	15.4	9.8	7.0	8.4	8.4	8.4
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)