

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: P507480

Luminaire Tested: **VERD-S-CA1-30-727-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
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-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 590mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3760.2 lumens
Efficiency: N/A
Efficacy: 110.6 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

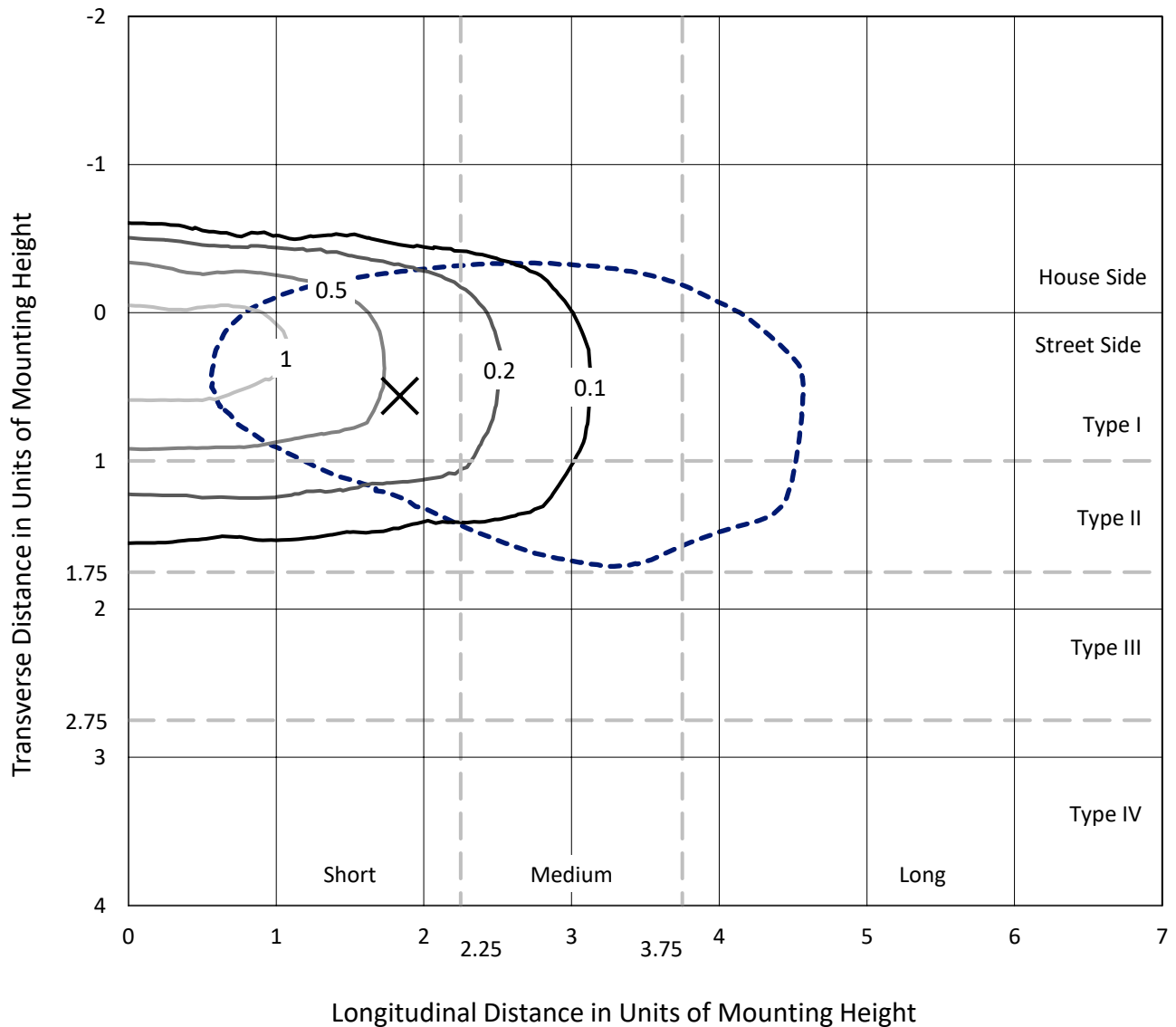
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

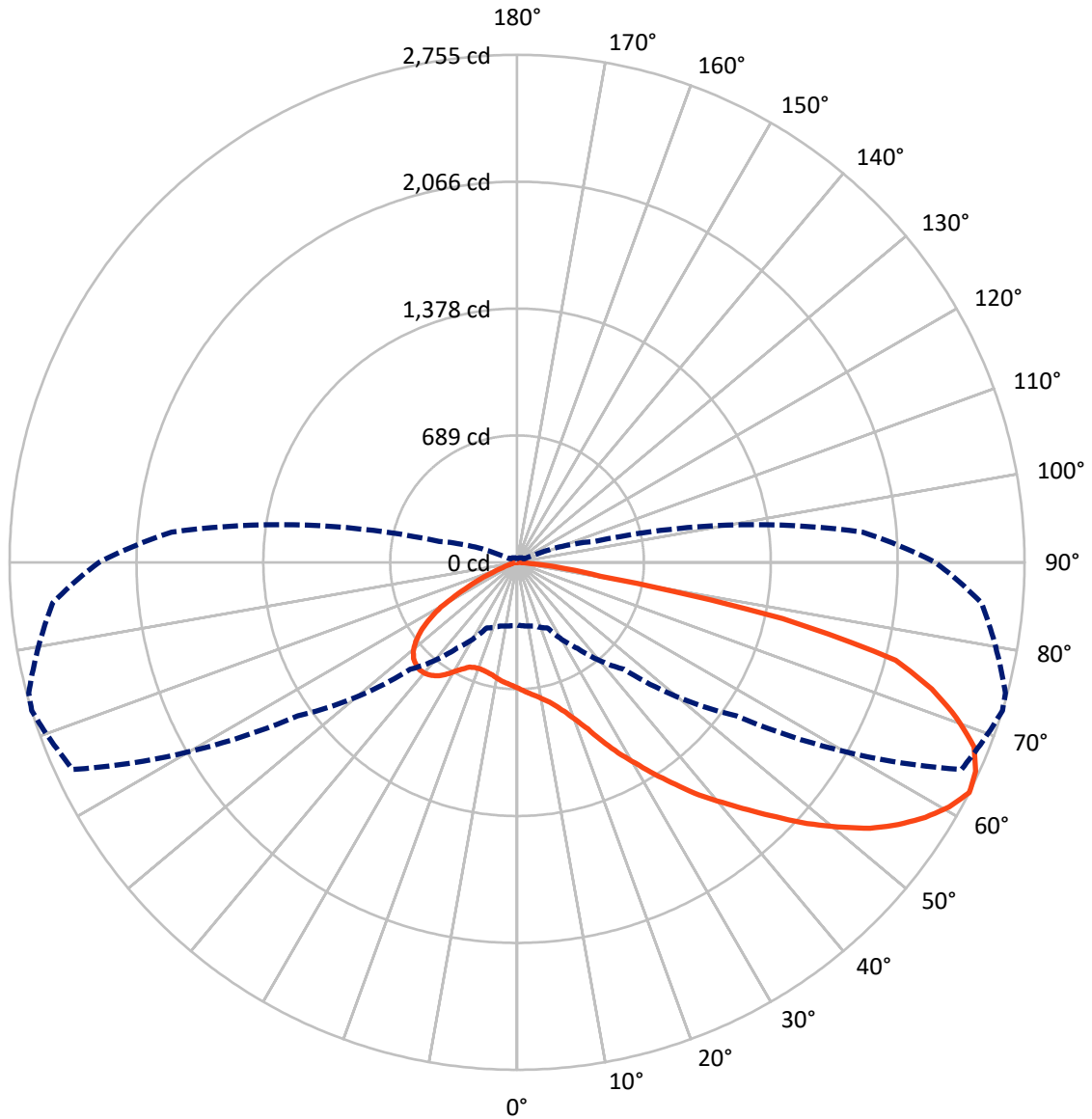
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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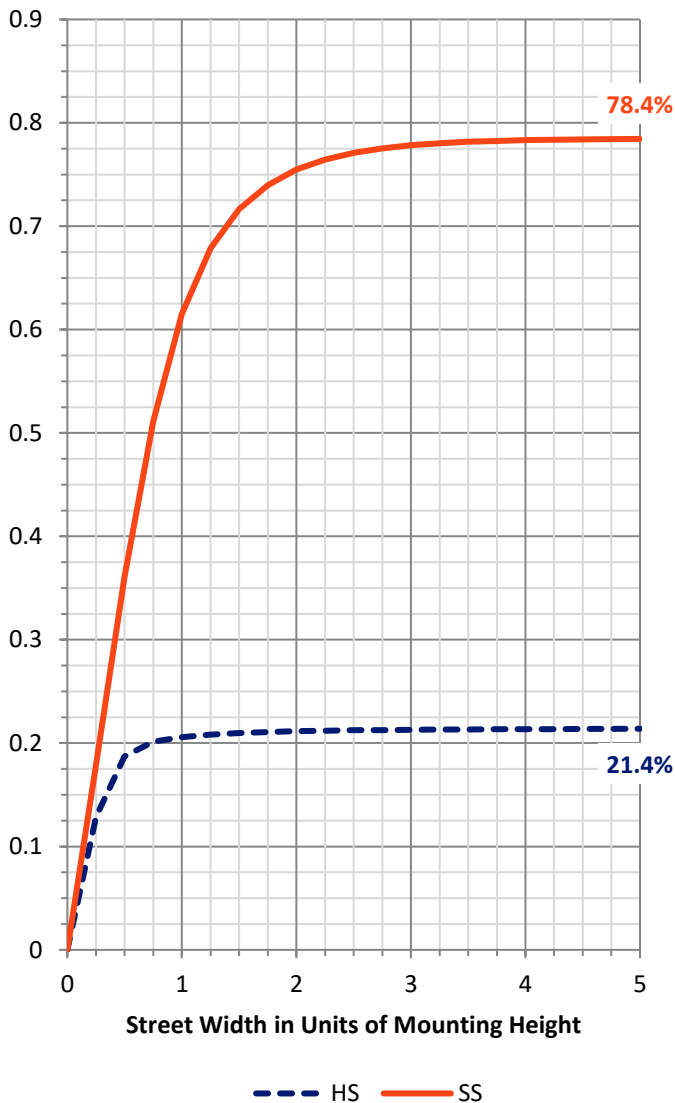
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.5	0.0	814.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2945.7	0.0	2945.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	3760.2	0.0	3760.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	1.7
10°-20°	196.7	5.2
20°-30°	340.2	9.0
30°-40°	499.6	13.3
40°-50°	649.4	17.3
50°-60°	752.9	20.0
60°-70°	757.7	20.2
70°-80°	461.7	12.3
80°-90°	36.8	1.0
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°	3760.2	100.0
0°-180°	3760.2	100.0

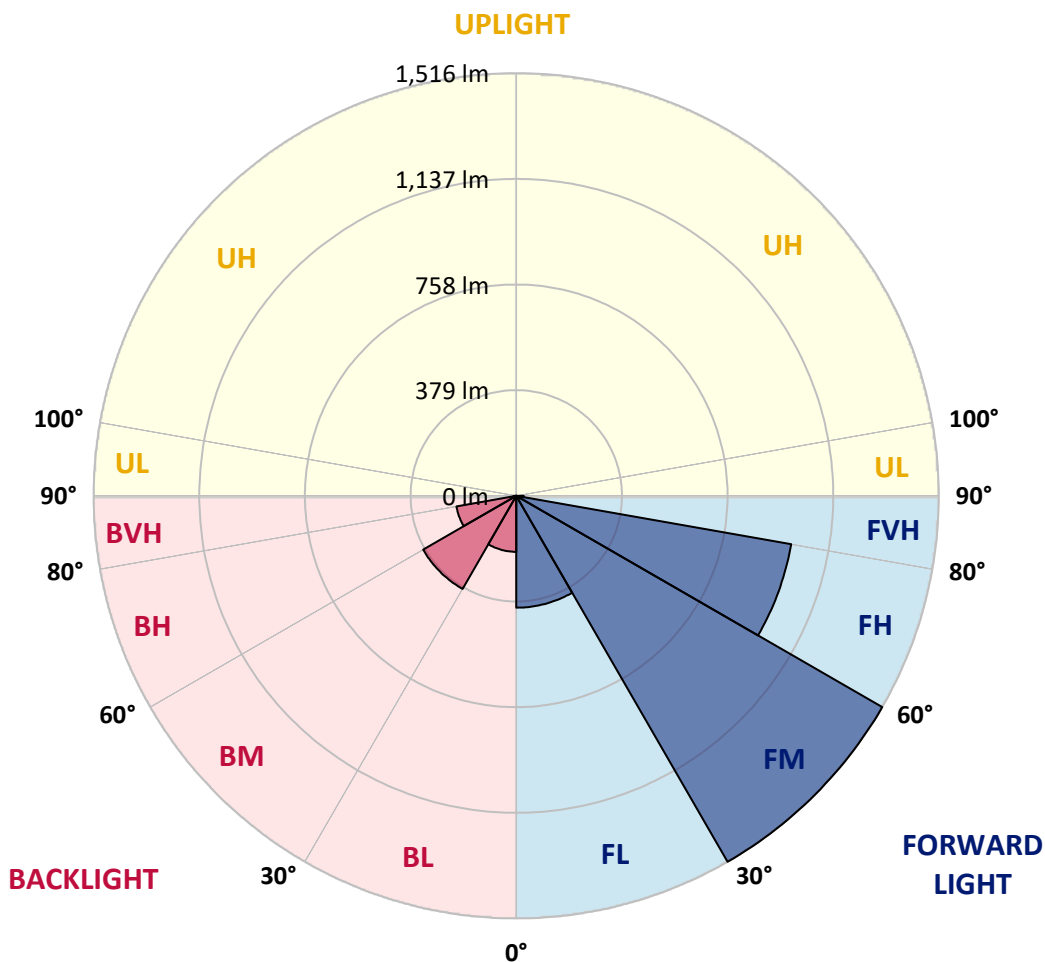


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.4	10.7			
FM (30°-60°)	1516.0	40.3			
FH (60°-80°)	1001.6	26.6			G1/1800
FVH (80°-90°)	26.7	0.7			G1/100
BL (0°-30°)	200.8	5.3	B1/500		
BM (30°-60°)	385.8	10.3	B1/1000		
BH (60°-80°)	217.8	5.8	B1/500		G1/500
BVH (80°-90°)	10.1	0.3			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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	729.0	729.0	727.9	726.7	722.1	717.5	710.6	704.9	699.1	696.8	687.7
5°	771.5	771.5	770.3	765.7	760.0	751.9	740.4	725.6	715.2	714.1	698.0
7.5°	807.0	805.9	804.7	802.4	796.7	786.4	769.2	749.6	732.5	727.9	708.3
10°	841.4	842.6	840.4	834.6	827.7	815.1	797.8	774.9	754.2	747.3	717.5
12.5°	878.3	877.1	873.7	866.7	857.5	847.2	828.9	805.9	778.4	771.5	732.5
15°	909.2	910.4	904.6	900.0	890.9	879.4	863.3	840.4	812.8	804.7	754.2
17.5°	936.8	936.8	935.7	933.4	926.5	918.4	902.3	886.3	857.5	844.9	787.6
20°	957.4	958.6	960.9	965.5	966.6	959.7	951.7	940.3	912.7	900.0	828.9
22.5°	975.8	978.1	987.3	1001.0	1012.5	1012.5	1011.4	1010.2	982.7	974.7	889.8
25°	980.4	983.9	1004.5	1034.4	1052.7	1067.6	1088.4	1096.3	1075.7	1061.9	968.9
27.5°	987.3	990.8	1013.7	1049.2	1095.3	1128.5	1165.2	1185.9	1171.0	1157.2	1059.6
30°	981.6	986.2	1011.4	1061.9	1122.8	1192.8	1238.7	1269.7	1265.1	1257.0	1153.7
32.5°	966.6	971.2	1001.0	1063.0	1156.0	1258.2	1309.8	1358.1	1370.7	1363.8	1252.4
35°	936.8	941.4	978.1	1053.8	1172.1	1307.5	1381.1	1452.2	1480.9	1476.3	1360.4
37.5°	898.8	898.8	942.6	1026.3	1177.9	1345.5	1444.2	1546.4	1602.7	1595.8	1469.4
40°	835.8	847.2	901.1	996.4	1168.7	1373.0	1505.0	1644.0	1713.9	1710.5	1587.7
42.5°	772.6	781.8	833.5	944.8	1146.8	1389.1	1555.5	1746.2	1836.8	1834.5	1701.4
45°	716.4	723.3	765.7	873.7	1100.9	1393.7	1603.8	1855.2	1972.2	1967.6	1817.3
47.5°	644.0	657.8	711.8	807.0	1037.8	1379.9	1648.6	1991.8	2119.2	2114.6	1942.4
50°	487.9	497.1	609.6	753.1	956.3	1345.5	1685.3	2126.1	2258.2	2249.0	2056.1
52.5°	443.1	448.8	484.4	686.6	880.6	1283.5	1708.2	2286.8	2399.3	2384.4	2173.1
55°	414.4	419.0	439.6	549.9	813.9	1179.0	1715.1	2438.4	2513.0	2498.1	2281.1
57.5°	389.1	391.4	412.1	468.4	734.8	1046.9	1691.0	2550.9	2612.9	2596.8	2374.0
60°	362.8	366.2	385.7	427.1	639.4	925.3	1616.4	2640.4	2695.5	2681.7	2455.6
62.5°	340.9	345.5	358.2	393.7	570.6	822.0	1453.3	2661.1	2755.2	2744.9	2531.3
65°	314.6	318.0	334.0	363.9	499.4	757.7	1288.1	2600.2	2735.7	2748.3	2573.8
67.5°	283.5	287.0	300.8	323.8	419.0	689.9	1143.5	2514.2	2676.0	2693.2	2542.8
70°	245.7	248.0	261.8	283.5	347.8	601.5	991.9	2387.8	2531.3	2544.0	2420.1
72.5°	204.3	204.3	214.7	239.9	285.8	498.2	795.5	2121.5	2354.6	2385.5	2212.3
75°	86.1	90.7	109.1	132.0	182.5	363.9	544.1	1633.6	2123.8	2150.2	1953.9
77.5°	17.3	18.4	20.7	31.0	48.2	158.4	168.8	712.9	1474.0	1491.3	1427.0
80°	13.8	13.8	15.0	23.0	32.1	73.5	55.1	233.0	459.2	591.2	762.3
82.5°	4.6	5.8	8.1	12.7	16.1	16.1	18.4	117.1	227.4	244.5	307.7
85°	2.3	2.3	3.5	4.6	4.6	4.6	4.6	20.7	39.0	47.1	65.5
87.5°	1.2	0.0	0.0	0.0	0.0	0.0	1.2	2.3	3.5	3.5	4.6
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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	683.1	679.7	671.6	665.9	657.8	650.9	642.8	638.2	636.1	634.9	632.6
5°	688.7	679.7	663.6	646.3	631.4	619.9	603.8	595.8	591.2	588.9	587.7
7.5°	695.7	684.3	656.6	630.3	603.8	584.4	564.8	552.2	546.4	545.3	544.1
10°	700.3	682.0	645.1	616.5	582.1	551.0	528.1	513.2	505.1	504.0	502.8
12.5°	709.5	685.4	636.1	594.6	559.1	518.9	494.8	477.6	469.6	462.7	462.7
15°	724.4	693.4	631.4	576.3	529.3	490.2	459.2	440.8	435.0	426.0	423.7
17.5°	749.6	708.3	628.0	557.9	501.7	462.7	426.0	406.4	402.9	394.9	390.3
20°	780.7	730.2	630.3	540.7	473.0	428.3	391.4	372.0	360.5	353.6	351.3
22.5°	830.0	762.3	638.2	528.1	447.7	397.2	358.2	327.2	301.9	292.7	292.7
25°	900.0	817.4	652.0	517.8	422.5	367.4	319.2	266.4	233.0	220.5	217.0
27.5°	979.3	887.5	684.3	508.6	401.8	334.0	262.9	204.3	168.8	157.3	157.3
30°	1069.9	960.9	723.3	502.8	376.6	283.5	198.6	149.2	120.6	107.9	106.8
32.5°	1159.5	1036.7	769.2	498.2	350.1	221.6	143.5	109.1	84.9	75.8	76.9
35°	1249.0	1111.2	808.2	498.2	306.5	159.6	102.2	75.8	60.9	56.3	56.3
37.5°	1350.1	1195.1	839.2	491.3	241.1	113.7	70.1	55.1	50.5	48.2	48.2
40°	1454.5	1273.1	859.8	476.5	172.2	78.0	49.4	48.2	45.9	42.5	41.3
42.5°	1552.2	1362.7	872.5	447.7	112.5	51.7	43.6	44.8	43.6	37.9	36.7
45°	1655.5	1435.0	879.4	390.3	74.7	42.5	39.0	41.3	42.5	37.9	36.7
47.5°	1758.7	1514.2	884.0	304.2	49.4	41.3	36.7	40.2	41.3	36.7	35.6
50°	1867.8	1586.6	877.1	195.1	43.6	39.0	35.6	36.7	39.0	36.7	35.6
52.5°	1963.0	1652.0	844.9	109.1	42.5	37.9	33.3	34.4	37.9	35.6	35.6
55°	2060.7	1716.2	785.3	64.3	41.3	35.6	33.3	34.4	35.6	33.3	34.4
57.5°	2149.1	1778.3	695.7	52.8	41.3	34.4	34.4	32.1	32.1	29.8	29.8
60°	2216.7	1834.5	588.9	49.4	39.0	35.6	32.1	29.8	27.5	25.3	25.3
62.5°	2270.7	1882.7	437.3	45.9	37.9	34.4	29.8	26.3	23.0	20.7	20.7
65°	2300.6	1893.1	308.8	41.3	35.6	33.3	27.5	23.0	18.4	17.3	17.3
67.5°	2266.2	1839.1	188.2	39.0	33.3	32.1	26.3	20.7	16.1	15.0	15.0
70°	2134.1	1694.5	105.6	35.6	29.8	28.6	24.2	18.4	15.0	12.7	12.7
72.5°	1916.0	1482.1	52.8	29.8	25.3	25.3	21.9	16.1	13.8	11.5	11.5
75°	1618.7	1215.7	37.9	21.9	20.7	20.7	18.4	15.0	12.7	10.4	10.4
77.5°	1185.9	801.3	31.0	18.4	15.0	15.0	16.1	13.8	11.5	9.2	9.2
80°	614.2	397.2	26.3	13.8	12.7	11.5	11.5	11.5	9.2	8.1	8.1
82.5°	272.1	152.7	17.3	10.4	10.4	9.2	9.2	9.2	8.1	6.9	6.9
85°	52.8	28.6	9.2	8.1	6.9	6.9	6.9	5.8	5.8	5.8	5.8
87.5°	4.6	4.6	4.6	4.6	4.6	3.5	3.5	3.5	3.5	3.5	3.5
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)