

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: P507528

Luminaire Tested: **VERD-S-CA1-40-727-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507528
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-CA1-40-727-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 760mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4774 lumens
Efficiency: N/A
Efficacy: 110.0 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

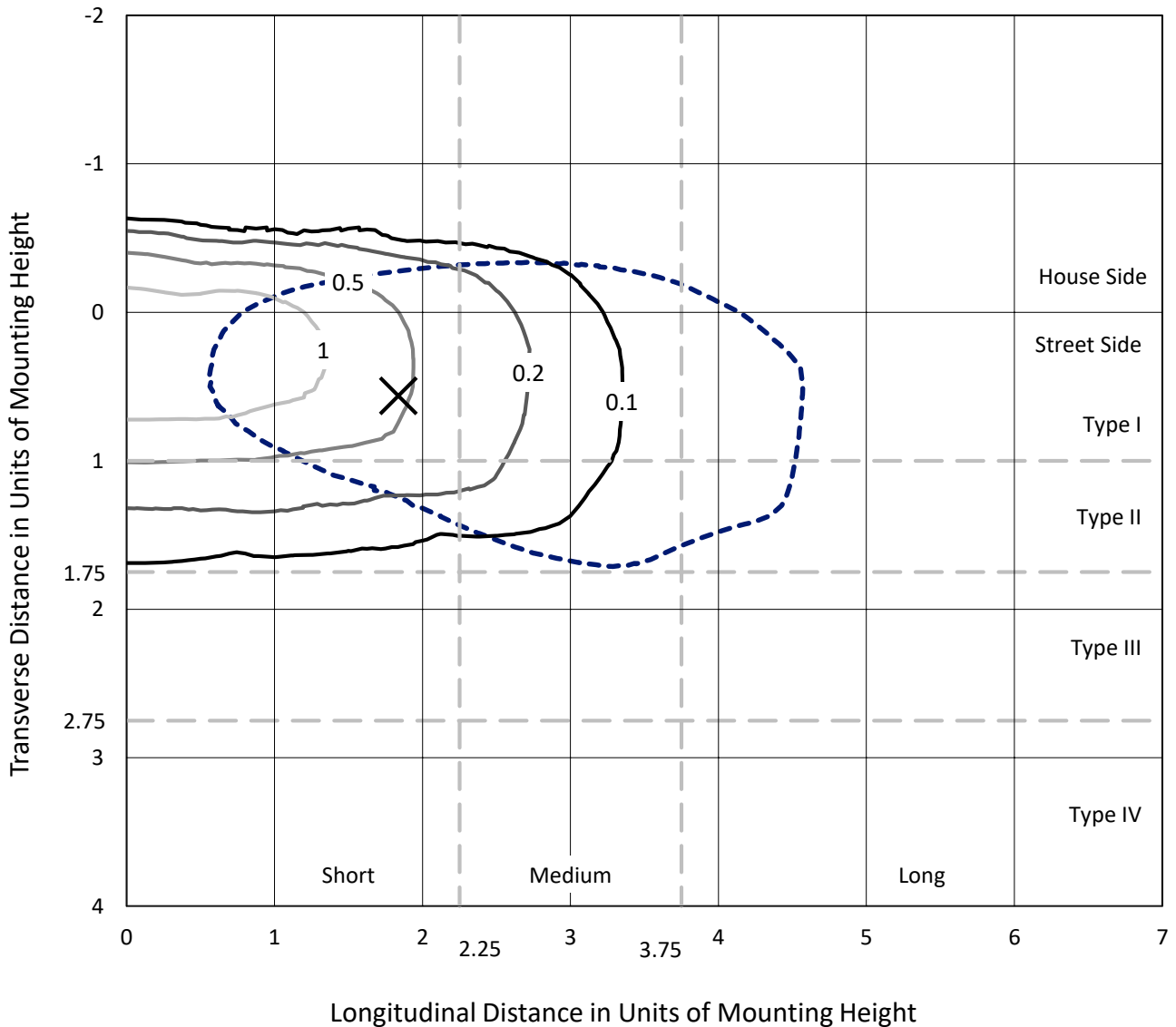
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

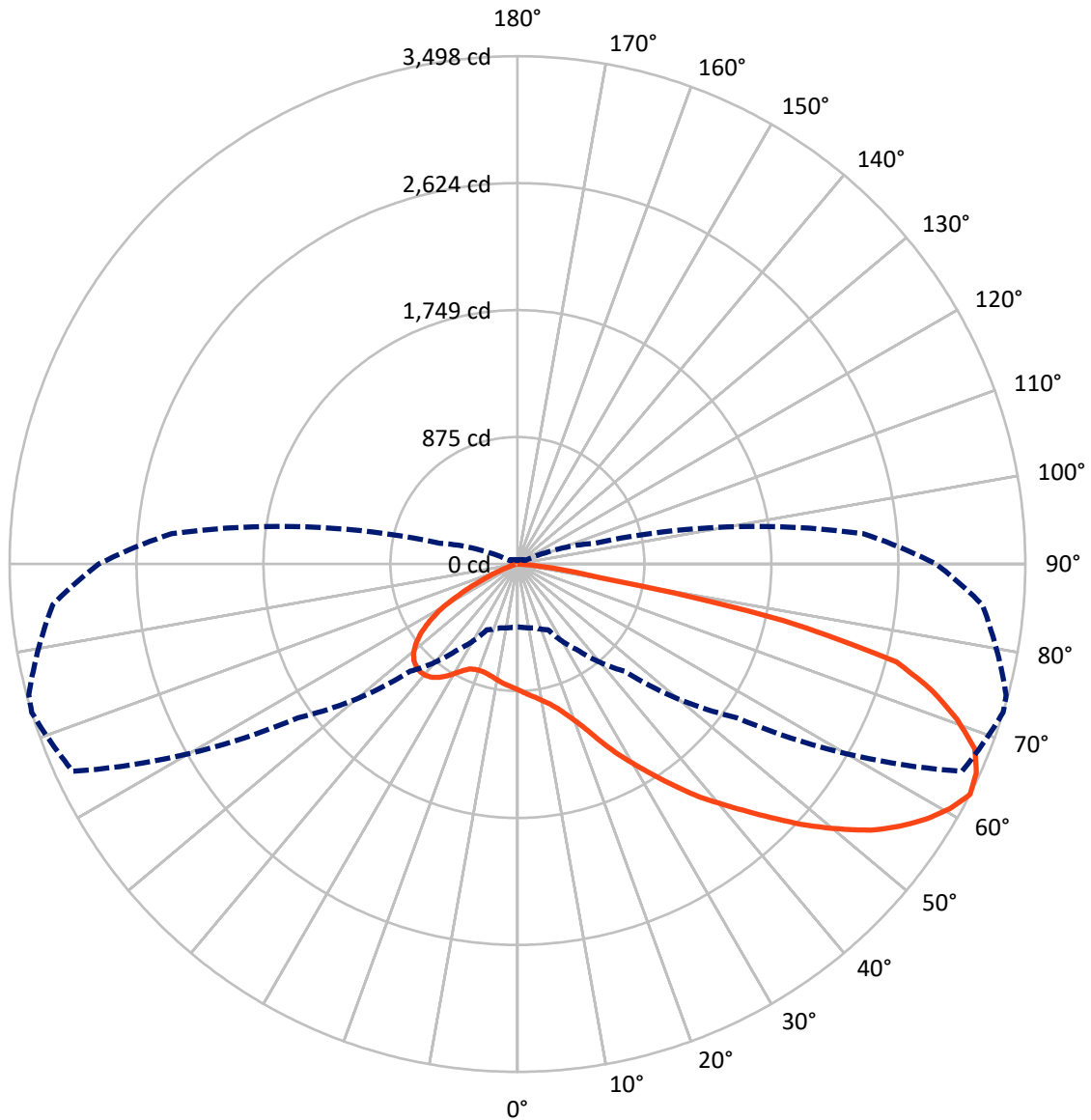
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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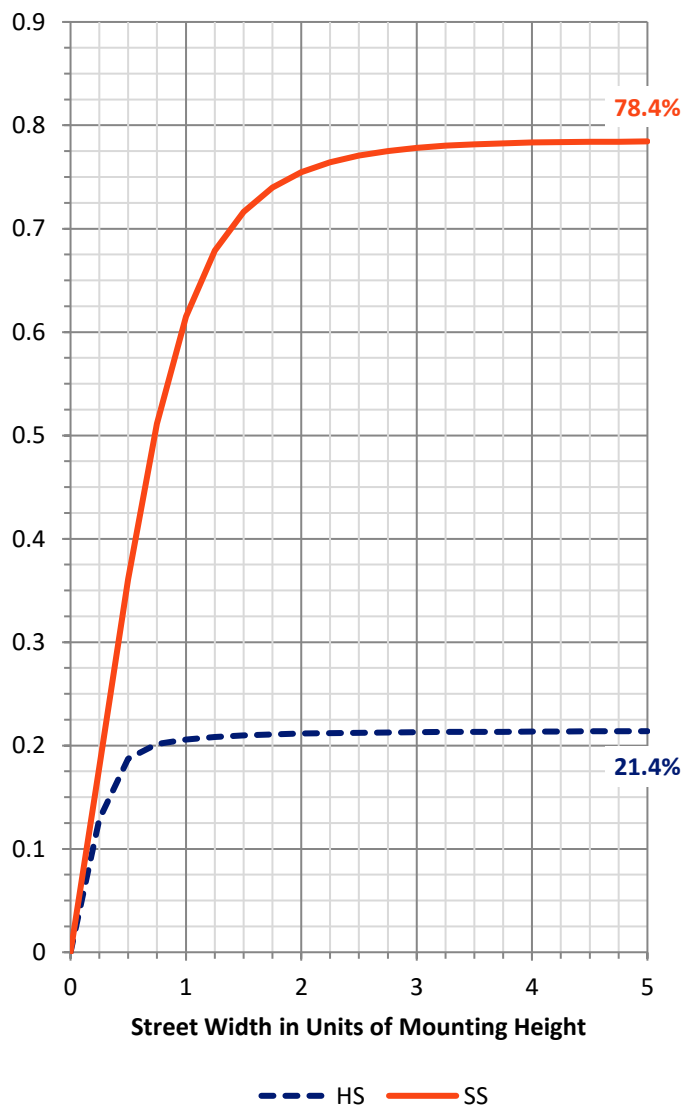
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.1	0.0	1034.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3739.9	0.0	3739.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	4774.0	0.0	4774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.7
10°-20°	249.7	5.2
20°-30°	431.9	9.0
30°-40°	634.3	13.3
40°-50°	824.4	17.3
50°-60°	955.9	20.0
60°-70°	962.0	20.2
70°-80°	586.2	12.3
80°-90°	46.7	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°	4774.0	100.0
0°-180°	4774.0	100.0

Coefficient of Utilization



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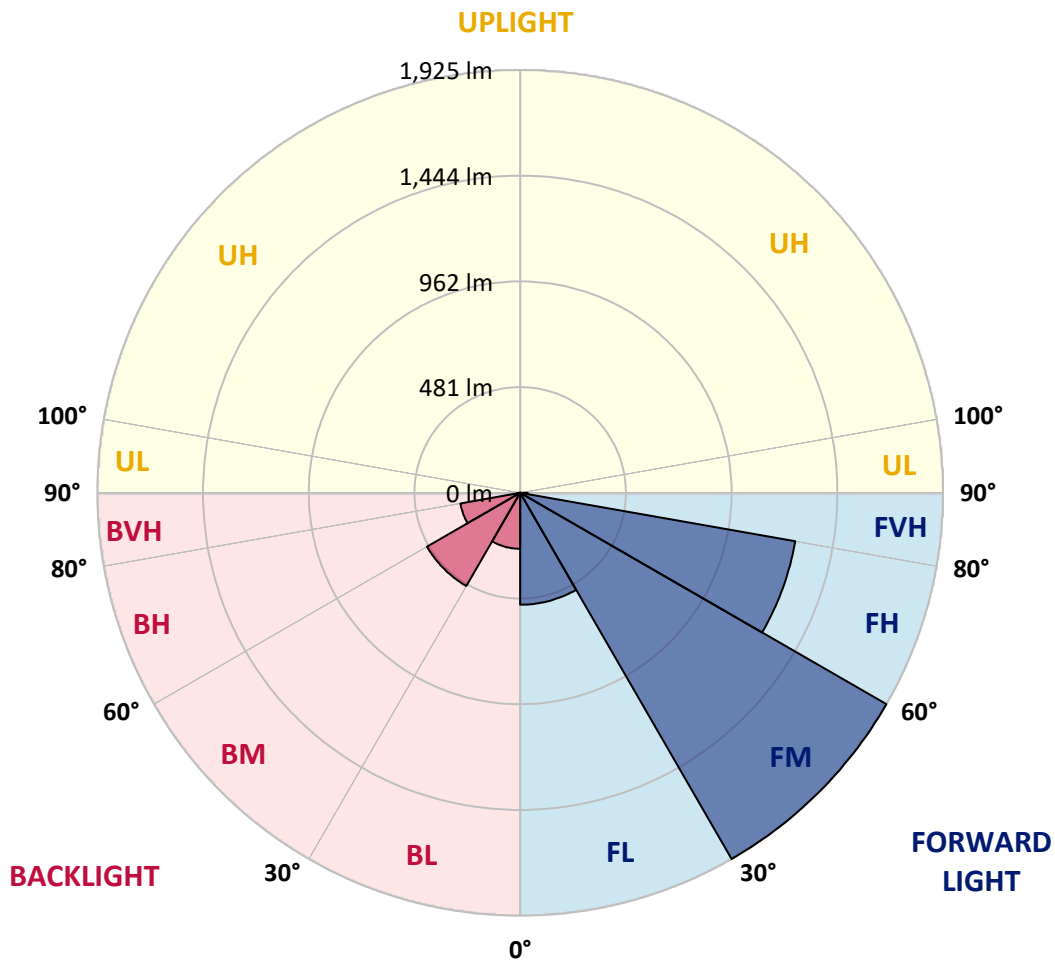
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.6	10.7			
FM (30°-60°)	1924.8	40.3			
FH (60°-80°)	1271.7	26.6			G1/1800
FVH (80°-90°)	33.9	0.7			G1/100
BL (0°-30°)	254.9	5.3	B1/500		
BM (30°-60°)	489.8	10.3	B1/1000		
BH (60°-80°)	276.5	5.8	B1/500		G1/500
BVH (80°-90°)	12.8	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°	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2
2.5°	925.5	925.5	924.1	922.6	916.8	911.0	902.2	894.9	887.6	884.7	873.1
5°	979.5	979.5	978.0	972.2	964.9	954.7	940.1	921.2	908.0	906.6	886.2
7.5°	1024.7	1023.2	1021.7	1018.8	1011.5	998.4	976.6	951.8	929.9	924.1	899.3
10°	1068.4	1069.8	1066.9	1059.6	1050.9	1034.9	1013.0	983.8	957.6	948.9	911.0
12.5°	1115.0	1113.6	1109.2	1100.4	1088.8	1075.7	1052.3	1023.2	988.2	979.5	929.9
15°	1154.4	1155.8	1148.5	1142.7	1131.1	1116.5	1096.1	1066.9	1031.9	1021.7	957.6
17.5°	1189.4	1189.4	1187.9	1185.0	1176.2	1166.0	1145.6	1125.2	1088.8	1072.7	999.9
20°	1215.6	1217.0	1220.0	1225.8	1227.2	1218.5	1208.3	1193.7	1158.7	1142.7	1052.3
22.5°	1238.9	1241.8	1253.5	1271.0	1285.6	1285.6	1284.1	1282.6	1247.7	1237.5	1129.6
25°	1244.7	1249.1	1275.3	1313.2	1336.6	1355.5	1381.7	1392.0	1365.7	1348.2	1230.2
27.5°	1253.5	1257.9	1287.0	1332.2	1390.5	1432.8	1479.4	1505.6	1486.7	1469.2	1345.3
30°	1246.2	1252.0	1284.1	1348.2	1425.5	1514.4	1572.7	1612.0	1606.2	1596.0	1464.8
32.5°	1227.2	1233.1	1271.0	1349.7	1467.7	1597.5	1663.1	1724.3	1740.3	1731.6	1590.2
35°	1189.4	1195.2	1241.8	1338.0	1488.1	1660.1	1753.4	1843.8	1880.2	1874.4	1727.2
37.5°	1141.3	1141.3	1196.6	1303.0	1495.4	1708.2	1833.6	1963.3	2034.7	2026.0	1865.7
40°	1061.1	1075.7	1144.2	1265.1	1483.8	1743.2	1910.8	2087.2	2176.1	2171.7	2015.8
42.5°	980.9	992.6	1058.2	1199.6	1456.1	1763.6	1975.0	2216.9	2332.1	2329.1	2160.1
45°	909.5	918.3	972.2	1109.2	1397.8	1769.5	2036.2	2355.4	2504.1	2498.2	2307.3
47.5°	817.7	835.2	903.7	1024.7	1317.6	1752.0	2093.0	2528.8	2690.6	2684.8	2466.2
50°	619.5	631.1	774.0	956.1	1214.1	1708.2	2139.7	2699.4	2867.0	2855.3	2610.5
52.5°	562.6	569.9	615.1	871.6	1117.9	1629.5	2168.8	2903.4	3046.3	3027.3	2759.1
55°	526.2	532.0	558.2	698.2	1033.4	1496.9	2177.6	3095.8	3190.6	3171.6	2896.1
57.5°	494.1	497.0	523.3	594.7	932.8	1329.3	2147.0	3238.7	3317.4	3297.0	3014.2
60°	460.6	465.0	489.7	542.2	811.9	1174.8	2052.2	3352.3	3422.3	3404.8	3117.7
62.5°	432.9	438.7	454.8	499.9	724.4	1043.6	1845.2	3378.6	3498.1	3485.0	3213.9
65°	399.4	403.7	424.1	462.0	634.0	962.0	1635.4	3301.3	3473.3	3489.4	3267.8
67.5°	360.0	364.4	381.9	411.0	532.0	876.0	1451.7	3192.0	3397.5	3419.4	3228.5
70°	311.9	314.8	332.3	360.0	441.6	763.8	1259.3	3031.7	3213.9	3229.9	3072.5
72.5°	259.4	259.4	272.6	304.6	362.9	632.6	1010.1	2693.5	2989.4	3028.8	2808.7
75°	109.3	115.1	138.5	167.6	231.7	462.0	690.9	2074.1	2696.5	2730.0	2480.7
77.5°	21.9	23.3	26.2	39.4	61.2	201.1	214.3	905.1	1871.5	1893.3	1811.7
80°	17.5	17.5	18.9	29.2	40.8	93.3	70.0	295.9	583.0	750.6	967.8
82.5°	5.8	7.3	10.2	16.0	20.4	20.4	23.3	148.7	288.6	310.5	390.6
85°	2.9	2.9	4.4	5.8	5.8	5.8	5.8	26.2	49.6	59.8	83.1
87.5°	1.5	0.0	0.0	0.0	0.0	0.0	1.5	2.9	4.4	4.4	5.8
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°	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2
2.5°	867.2	862.9	852.7	845.4	835.2	826.4	816.2	810.4	807.5	806.0	803.1
5°	874.5	862.9	842.5	820.6	801.6	787.1	766.7	756.5	750.6	747.7	746.3
7.5°	883.3	868.7	833.7	800.2	766.7	741.9	717.1	701.1	693.8	692.3	690.9
10°	889.1	865.8	819.1	782.7	739.0	699.6	670.5	651.5	641.3	639.9	638.4
12.5°	900.8	870.2	807.5	755.0	709.8	658.8	628.2	606.3	596.1	587.4	587.4
15°	919.7	880.4	801.6	731.7	671.9	622.4	583.0	559.7	552.4	540.7	537.8
17.5°	951.8	899.3	797.3	708.4	636.9	587.4	540.7	516.0	511.6	501.4	495.6
20°	991.1	927.0	800.2	686.5	600.5	543.7	497.0	472.2	457.7	448.9	446.0
22.5°	1053.8	967.8	810.4	670.5	568.4	504.3	454.8	415.4	383.3	371.7	371.7
25°	1142.7	1037.8	827.9	657.4	536.4	466.4	405.2	338.1	295.9	279.8	275.5
27.5°	1243.3	1126.7	868.7	645.7	510.1	424.1	333.8	259.4	214.3	199.7	199.7
30°	1358.4	1220.0	918.3	638.4	478.1	360.0	252.2	189.5	153.0	137.0	135.6
32.5°	1472.1	1316.2	976.6	632.6	444.5	281.3	182.2	138.5	107.9	96.2	97.7
35°	1585.8	1410.9	1026.1	632.6	389.2	202.6	129.7	96.2	77.2	71.4	71.4
37.5°	1714.1	1517.3	1065.5	623.8	306.1	144.3	88.9	70.0	64.1	61.2	61.2
40°	1846.7	1616.4	1091.7	604.9	218.6	99.1	62.7	61.2	58.3	53.9	52.5
42.5°	1970.6	1730.1	1107.7	568.4	142.8	65.6	55.4	56.8	55.4	48.1	46.6
45°	2101.8	1821.9	1116.5	495.6	94.7	53.9	49.6	52.5	53.9	48.1	46.6
47.5°	2233.0	1922.5	1122.3	386.2	62.7	52.5	46.6	51.0	52.5	46.6	45.2
50°	2371.4	2014.3	1113.6	247.8	55.4	49.6	45.2	46.6	49.6	46.6	45.2
52.5°	2492.4	2097.4	1072.7	138.5	53.9	48.1	42.3	43.7	48.1	45.2	45.2
55°	2616.3	2179.0	997.0	81.6	52.5	45.2	42.3	43.7	45.2	42.3	43.7
57.5°	2728.5	2257.7	883.3	67.0	52.5	43.7	43.7	40.8	40.8	37.9	37.9
60°	2814.5	2329.1	747.7	62.7	49.6	45.2	40.8	37.9	35.0	32.1	32.1
62.5°	2883.0	2390.4	555.3	58.3	48.1	43.7	37.9	33.5	29.2	26.2	26.2
65°	2920.9	2403.5	392.1	52.5	45.2	42.3	35.0	29.2	23.3	21.9	21.9
67.5°	2877.2	2335.0	239.0	49.6	42.3	40.8	33.5	26.2	20.4	18.9	18.9
70°	2709.6	2151.3	134.1	45.2	37.9	36.4	30.6	23.3	18.9	16.0	16.0
72.5°	2432.6	1881.7	67.0	37.9	32.1	32.1	27.7	20.4	17.5	14.6	14.6
75°	2055.1	1543.5	48.1	27.7	26.2	26.2	23.3	18.9	16.0	13.1	13.1
77.5°	1505.6	1017.4	39.4	23.3	18.9	18.9	20.4	17.5	14.6	11.7	11.7
80°	779.8	504.3	33.5	17.5	16.0	14.6	14.6	14.6	11.7	10.2	10.2
82.5°	345.4	193.9	21.9	13.1	13.1	11.7	11.7	11.7	10.2	8.7	8.7
85°	67.0	36.4	11.7	10.2	8.7	8.7	8.7	7.3	7.3	7.3	7.3
87.5°	5.8	5.8	5.8	5.8	5.8	4.4	4.4	4.4	4.4	4.4	4.4
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)