

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: P507609

Luminaire Tested: **VERD-S-CA1-50-760-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-760-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 940mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7411 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

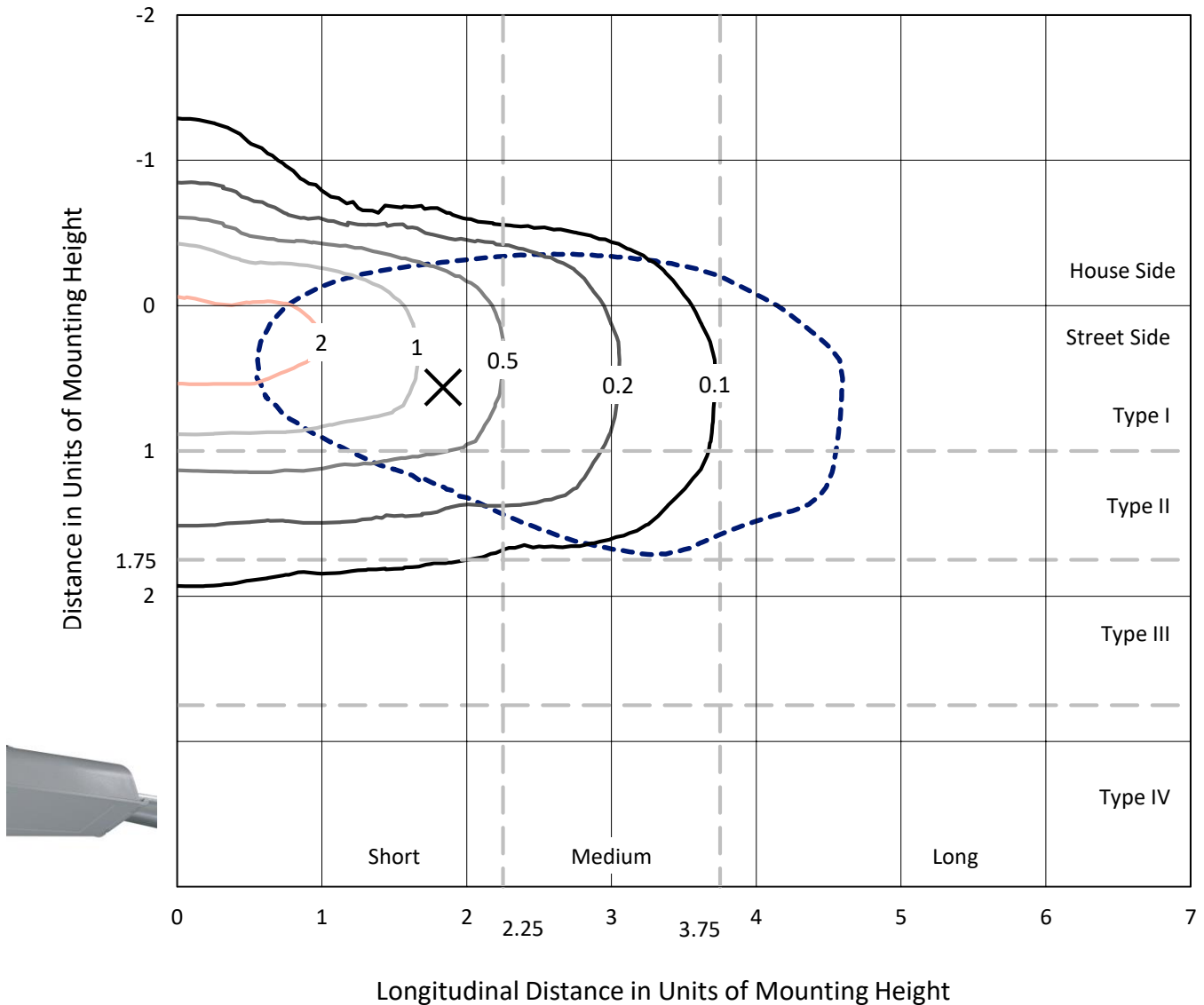
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

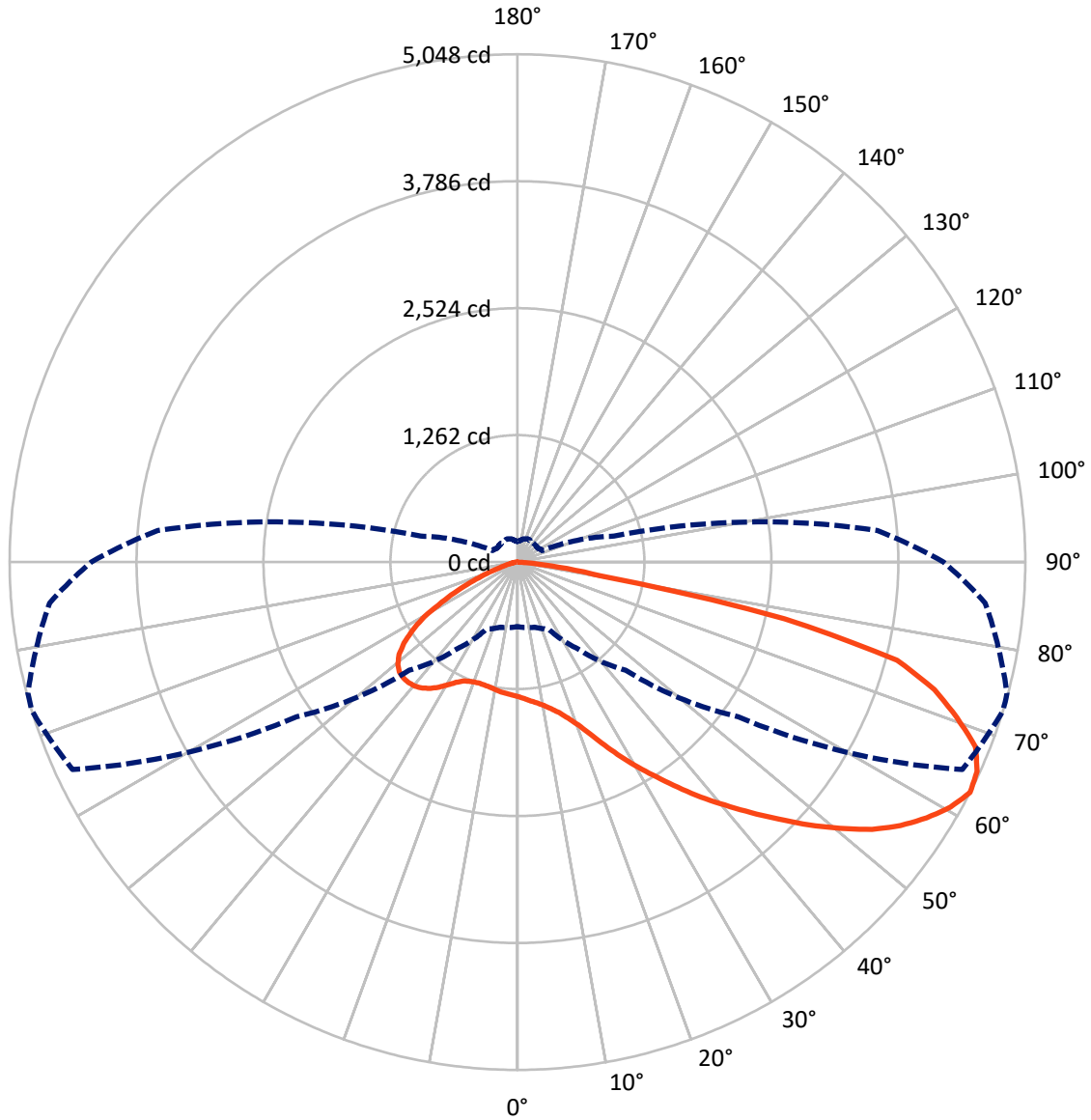
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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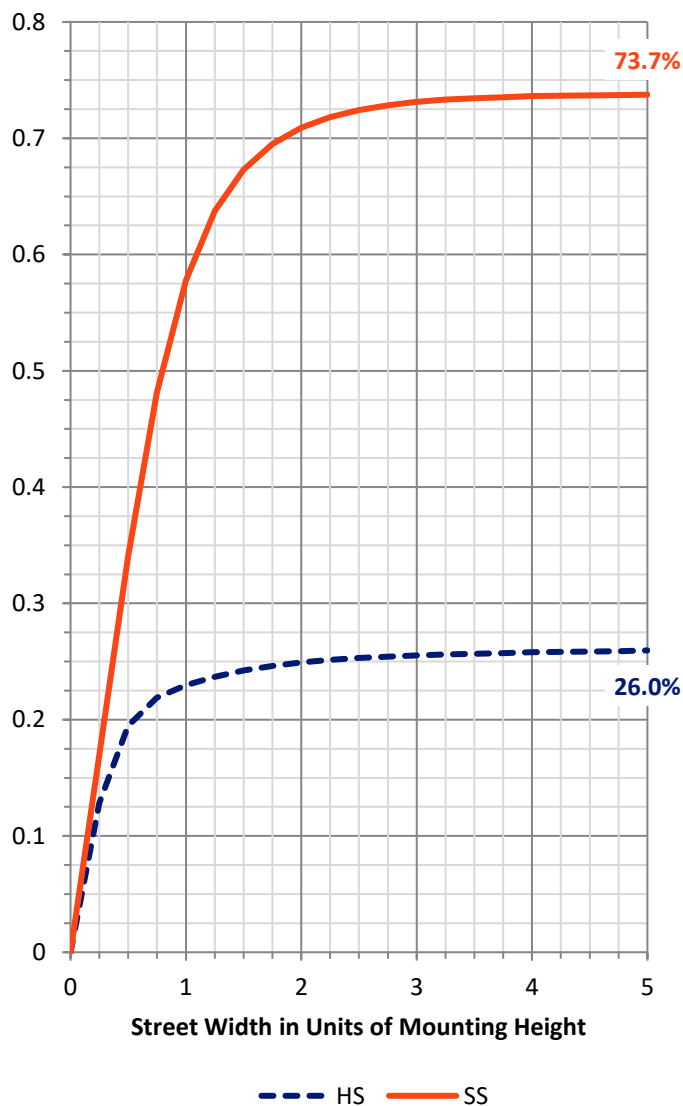
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1952.2	0.0	1952.2
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	5458.8	0.0	5458.8
	% Fixture	73.7	0.0	73.7
Total	Lumens	7411.0	0.0	7411.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.7
10°-20°	395.4	5.3
20°-30°	684.5	9.2
30°-40°	991.3	13.4
40°-50°	1269.7	17.1
50°-60°	1470.0	19.8
60°-70°	1480.3	20.0
70°-80°	905.0	12.2
80°-90°	85.2	1.1
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°	7411.0	100.0
0°-180°	7411.0	100.0



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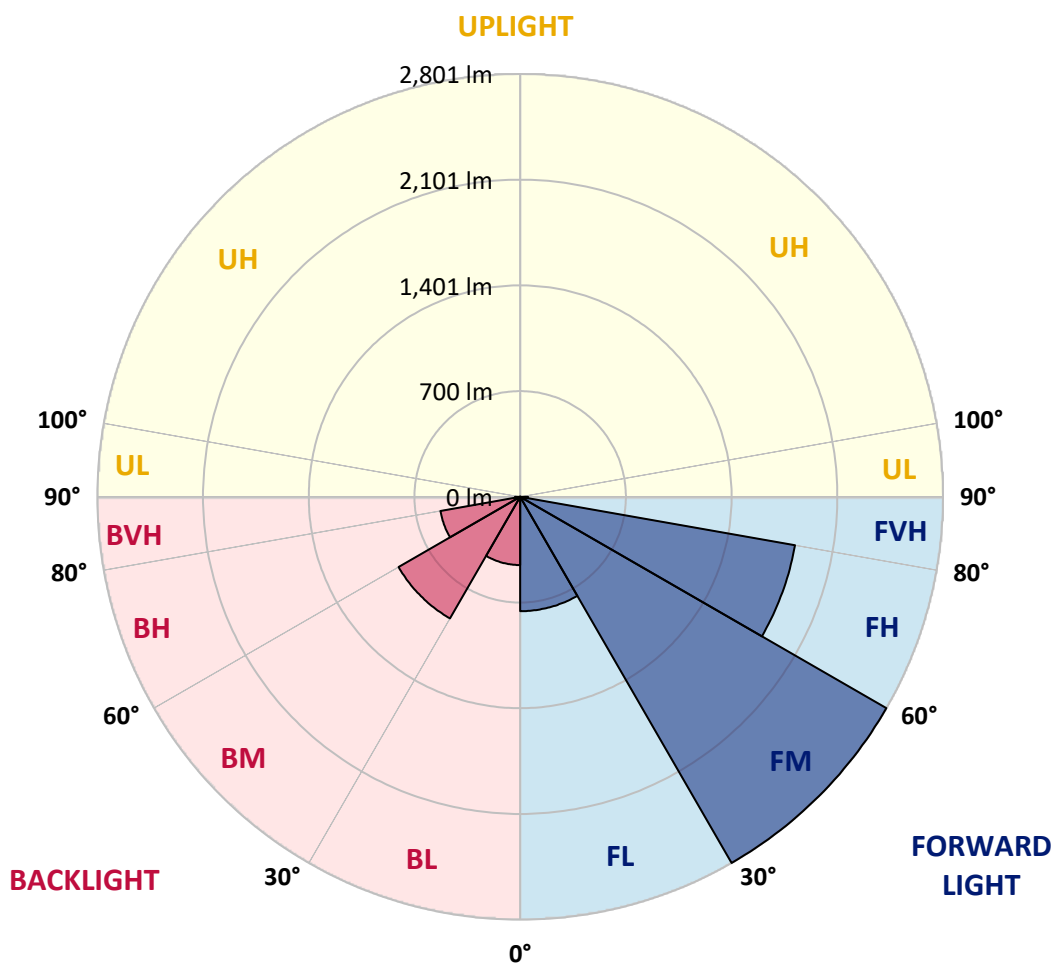
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.4	10.2			
FM	(30°-60°)	2801.1	37.8			
FH	(60°-80°)	1848.8	24.9			G2/5000
FVH	(80°-90°)	51.5	0.7			G1/100
BL	(0°-30°)	451.9	6.1	B1/500		
BM	(30°-60°)	930.0	12.5	B1/1000		
BH	(60°-80°)	536.6	7.2	B2/1000		G2/1000
BVH	(80°-90°)	33.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1407.6	1405.5	1401.3	1399.2	1395.0	1384.6	1378.3	1367.9	1359.5	1357.4	1344.9
5°	1476.5	1478.6	1476.5	1470.2	1461.9	1447.2	1426.4	1399.2	1386.7	1382.5	1361.6
7.5°	1541.2	1541.2	1539.1	1530.8	1522.4	1503.6	1474.4	1443.1	1413.8	1405.5	1378.3
10°	1603.9	1603.9	1597.6	1589.2	1576.7	1553.7	1524.5	1484.8	1449.3	1436.8	1390.8
12.5°	1670.7	1668.6	1660.2	1647.7	1631.0	1612.2	1580.9	1537.0	1497.4	1482.7	1418.0
15°	1722.9	1722.9	1716.6	1708.3	1693.7	1670.7	1641.5	1603.9	1551.7	1539.1	1455.6
17.5°	1768.8	1770.9	1766.8	1766.8	1754.2	1737.5	1712.5	1681.1	1631.0	1612.2	1512.0
20°	1806.4	1804.3	1812.7	1819.0	1823.1	1812.7	1798.1	1777.2	1727.1	1708.3	1585.1
22.5°	1823.1	1827.3	1852.4	1883.7	1902.5	1904.6	1902.5	1900.4	1856.6	1831.5	1685.3
25°	1831.5	1837.8	1875.3	1929.6	1971.4	2002.7	2036.2	2057.0	2017.4	1998.6	1835.7
27.5°	1839.8	1846.1	1890.0	1956.8	2036.2	2111.3	2178.2	2217.8	2188.6	2165.6	1990.2
30°	1825.2	1831.5	1881.6	1975.6	2088.4	2219.9	2313.9	2370.3	2366.1	2351.5	2167.7
32.5°	1793.9	1800.2	1856.6	1973.5	2142.7	2330.6	2435.0	2529.0	2547.8	2533.2	2345.2
35°	1737.5	1745.9	1810.6	1948.4	2167.7	2422.5	2562.4	2700.3	2748.3	2750.4	2539.4
37.5°	1660.2	1664.4	1743.8	1900.4	2176.1	2487.2	2668.9	2865.2	2963.4	2965.5	2737.8
40°	1555.8	1566.3	1664.4	1839.8	2157.3	2533.2	2775.4	3044.8	3174.3	3159.7	2952.9
42.5°	1436.8	1445.1	1541.2	1743.8	2113.4	2560.3	2873.6	3232.8	3404.0	3395.7	3155.5
45°	1330.3	1342.8	1415.9	1610.1	2029.9	2566.6	2959.2	3420.7	3642.1	3631.7	3362.3
47.5°	1188.3	1219.6	1317.8	1491.1	1904.6	2539.4	3036.5	3675.5	3905.2	3890.6	3579.5
50°	914.7	925.1	1131.9	1390.8	1762.6	2472.6	3103.3	3911.5	4160.0	4149.6	3807.1
52.5°	824.9	833.3	900.1	1276.0	1620.6	2353.6	3143.0	4214.3	4414.8	4385.6	4011.7
55°	774.8	783.1	820.7	1019.1	1497.4	2174.0	3151.3	4471.2	4621.5	4594.4	4203.9
57.5°	728.8	735.1	770.6	872.9	1355.3	1925.5	3107.5	4677.9	4797.0	4769.8	4377.2
60°	680.8	687.1	724.7	793.6	1179.9	1697.8	2963.4	4838.7	4945.2	4918.1	4533.8
62.5°	641.1	651.6	670.4	735.1	1054.6	1520.3	2681.5	4878.4	5047.6	5037.1	4667.5
65°	593.1	597.3	626.5	678.7	931.4	1397.1	2378.6	4763.6	5020.4	5039.2	4746.8
67.5°	538.8	540.9	568.0	605.6	779.0	1276.0	2109.2	4609.0	4911.8	4943.2	4688.4
70°	465.7	467.8	492.9	532.5	645.3	1106.8	1831.5	4381.4	4634.1	4663.3	4462.8
72.5°	388.4	388.4	409.3	453.2	532.5	916.8	1466.0	3882.3	4335.4	4383.5	4095.3
75°	169.2	175.4	210.9	252.7	344.6	674.5	1000.3	3005.2	3896.9	3930.3	3589.9
77.5°	45.9	45.9	54.3	71.0	100.2	300.7	317.4	1321.9	2714.9	2800.5	2654.3
80°	37.6	37.6	41.8	54.3	68.9	148.3	106.5	426.0	839.5	1106.8	1376.2
82.5°	20.9	20.9	25.1	31.3	37.6	37.6	37.6	217.2	413.5	440.6	576.4
85°	10.4	12.5	12.5	14.6	14.6	12.5	12.5	43.9	79.4	89.8	137.8
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	4.2	6.3	6.3	8.4	10.4
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°	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1340.7	1334.5	1326.1	1319.8	1307.3	1294.8	1286.4	1280.2	1278.1	1276.0	1276.0
5°	1349.1	1338.6	1315.7	1292.7	1273.9	1257.2	1242.6	1232.1	1228.0	1225.9	1225.9
7.5°	1361.6	1347.0	1309.4	1276.0	1242.6	1217.5	1194.5	1179.9	1171.6	1173.7	1179.9
10°	1367.9	1344.9	1294.8	1261.4	1217.5	1177.8	1150.7	1134.0	1127.7	1127.7	1125.6
12.5°	1384.6	1351.2	1284.3	1232.1	1194.5	1140.2	1108.9	1094.3	1085.9	1073.4	1069.2
15°	1409.6	1367.9	1280.2	1211.2	1152.8	1104.7	1063.0	1042.1	1035.8	1019.1	1019.1
17.5°	1455.6	1397.1	1280.2	1188.3	1113.1	1067.2	1012.9	983.6	979.4	969.0	966.9
20°	1509.9	1436.8	1290.6	1165.3	1071.3	1010.8	950.2	921.0	910.5	900.1	900.1
22.5°	1595.5	1497.4	1309.4	1148.6	1027.5	952.3	885.5	843.7	827.0	824.9	820.7
25°	1727.1	1593.4	1338.6	1131.9	983.6	887.6	820.7	766.4	739.3	735.1	733.0
27.5°	1871.2	1725.0	1397.1	1117.3	935.6	814.5	735.1	676.6	643.2	639.0	637.0
30°	2025.7	1860.7	1474.4	1104.7	875.0	730.9	641.1	584.7	553.4	545.1	547.2
32.5°	2194.9	2006.9	1557.9	1094.3	810.3	622.3	538.8	501.2	467.8	453.2	455.3
35°	2359.8	2136.4	1631.0	1085.9	724.7	524.2	459.4	419.8	386.3	367.6	367.6
37.5°	2545.7	2288.8	1691.6	1069.2	632.8	457.4	394.7	355.0	330.0	313.3	313.3
40°	2727.4	2441.3	1739.6	1037.9	530.4	403.1	325.8	302.8	286.1	275.7	271.5
42.5°	2904.9	2593.7	1770.9	985.7	444.8	338.3	271.5	269.4	271.5	261.0	259.0
45°	3088.7	2744.1	1793.9	902.2	384.3	279.8	242.2	256.9	271.5	267.3	267.3
47.5°	3289.2	2890.3	1812.7	766.4	325.8	246.4	240.2	254.8	273.6	275.7	275.7
50°	3481.3	3038.6	1806.4	593.1	286.1	244.3	242.2	246.4	271.5	277.8	273.6
52.5°	3660.9	3166.0	1756.3	432.3	267.3	248.5	248.5	244.3	265.2	269.4	271.5
55°	3842.6	3285.0	1643.5	342.5	256.9	248.5	259.0	248.5	254.8	256.9	261.0
57.5°	4007.6	3406.1	1476.5	307.0	254.8	248.5	259.0	252.7	252.7	244.3	242.2
60°	4135.0	3506.4	1273.9	292.4	248.5	250.6	254.8	254.8	248.5	229.7	223.5
62.5°	4235.2	3589.9	996.1	273.6	244.3	246.4	244.3	252.7	238.1	210.9	204.7
65°	4291.6	3604.5	762.3	252.7	233.9	242.2	236.0	233.9	221.4	192.1	179.6
67.5°	4228.9	3502.2	532.5	231.8	221.4	236.0	225.5	217.2	202.6	175.4	158.7
70°	3986.7	3205.6	350.8	204.7	204.7	221.4	213.0	200.5	181.7	160.8	142.0
72.5°	3531.4	2762.9	210.9	169.2	181.7	202.6	198.4	181.7	127.4	98.2	85.6
75°	2986.4	2270.0	135.7	127.4	148.3	181.7	183.8	162.9	108.6	87.7	87.7
77.5°	2169.8	1491.1	79.4	71.0	98.2	146.2	156.6	119.0	116.9	162.9	119.0
80°	1113.1	722.6	60.6	43.9	52.2	108.6	87.7	89.8	177.5	131.6	83.5
82.5°	482.4	286.1	37.6	31.3	33.4	54.3	56.4	148.3	137.8	77.3	52.2
85°	102.3	54.3	20.9	20.9	20.9	25.1	31.3	160.8	85.6	39.7	16.7
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	8.4	8.4	8.4	6.3	6.3
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)