

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: P509244

Luminaire Tested: **VERD-CA2-60-722-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-722-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 850mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6839 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

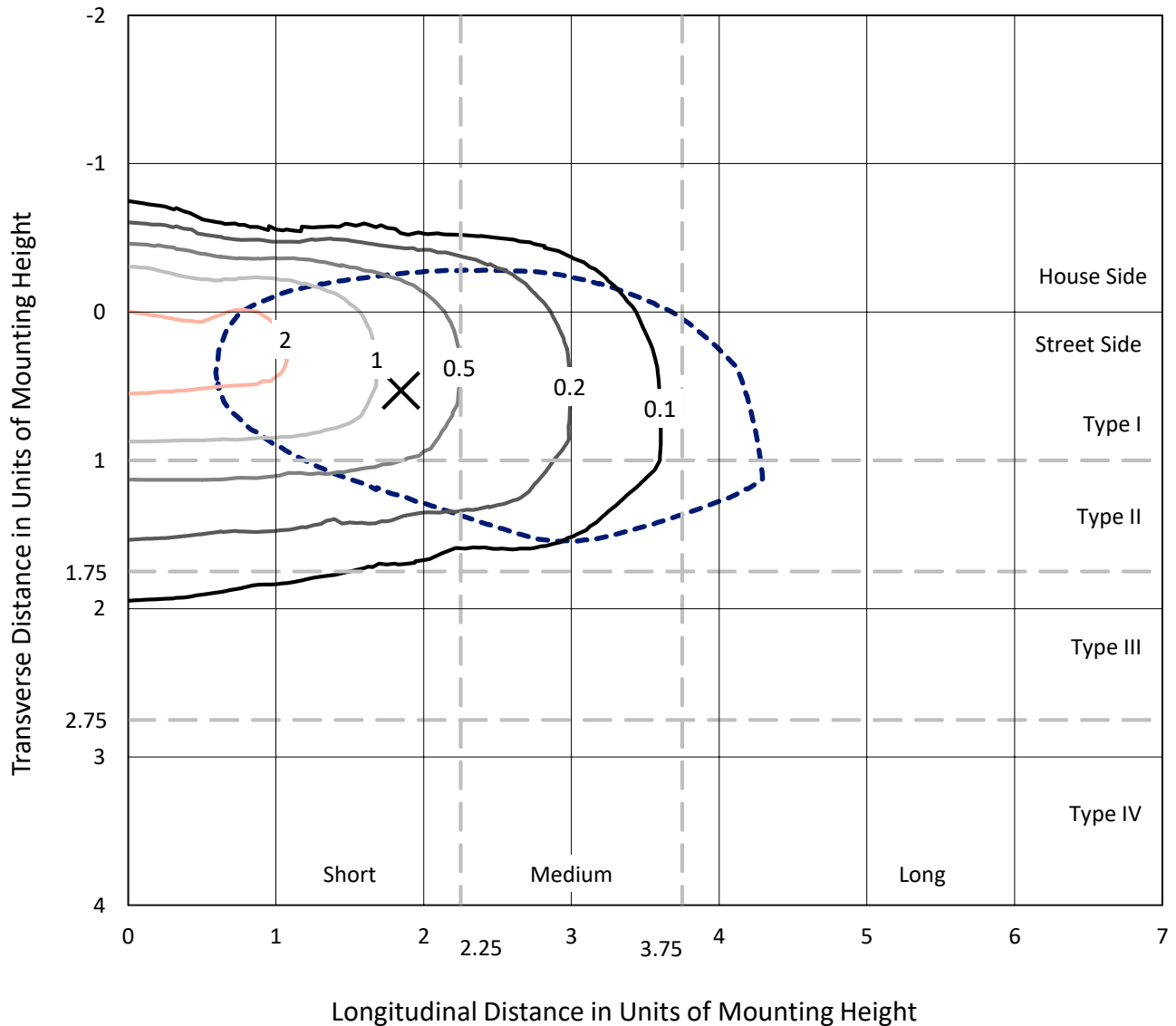
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

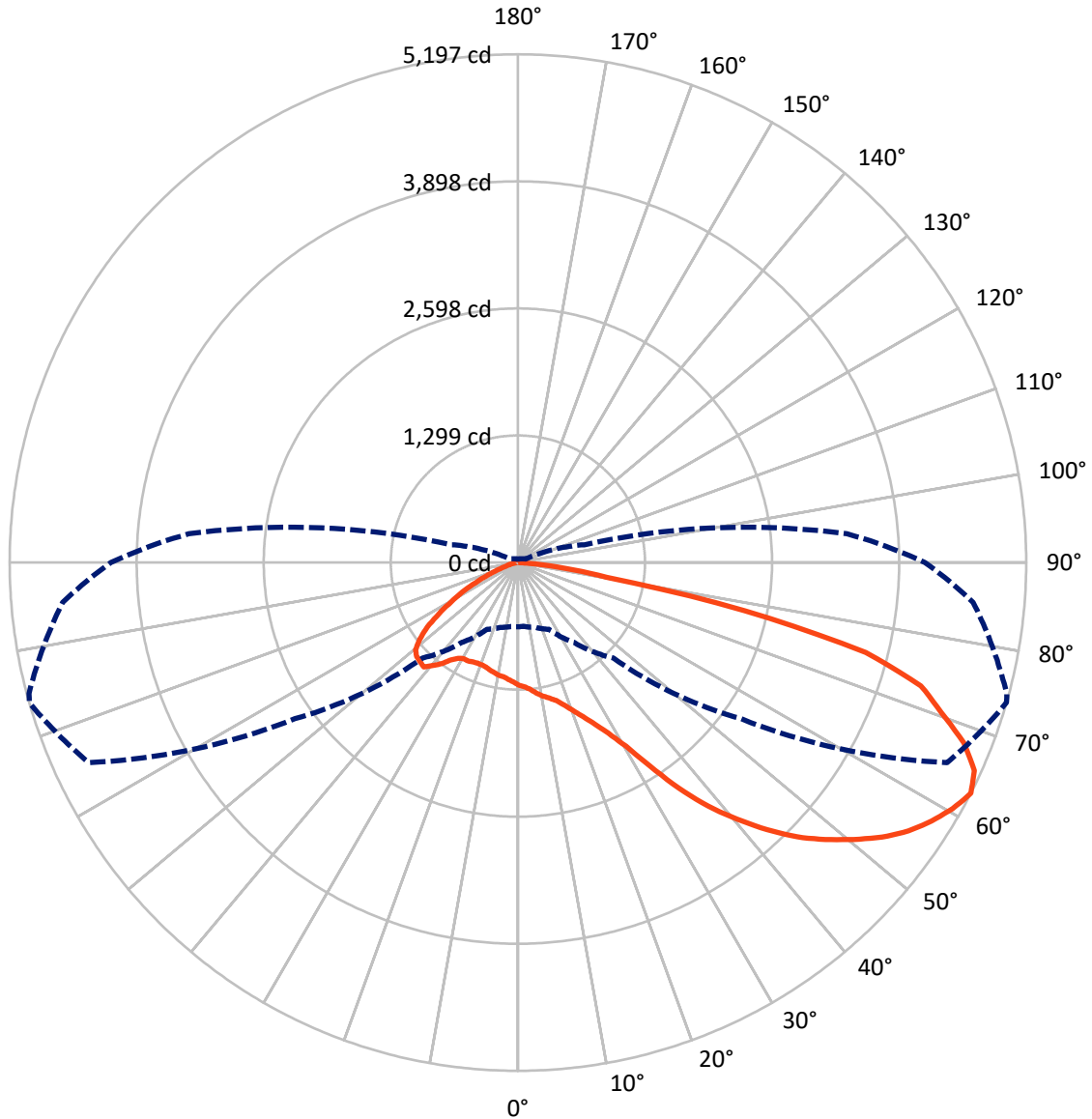
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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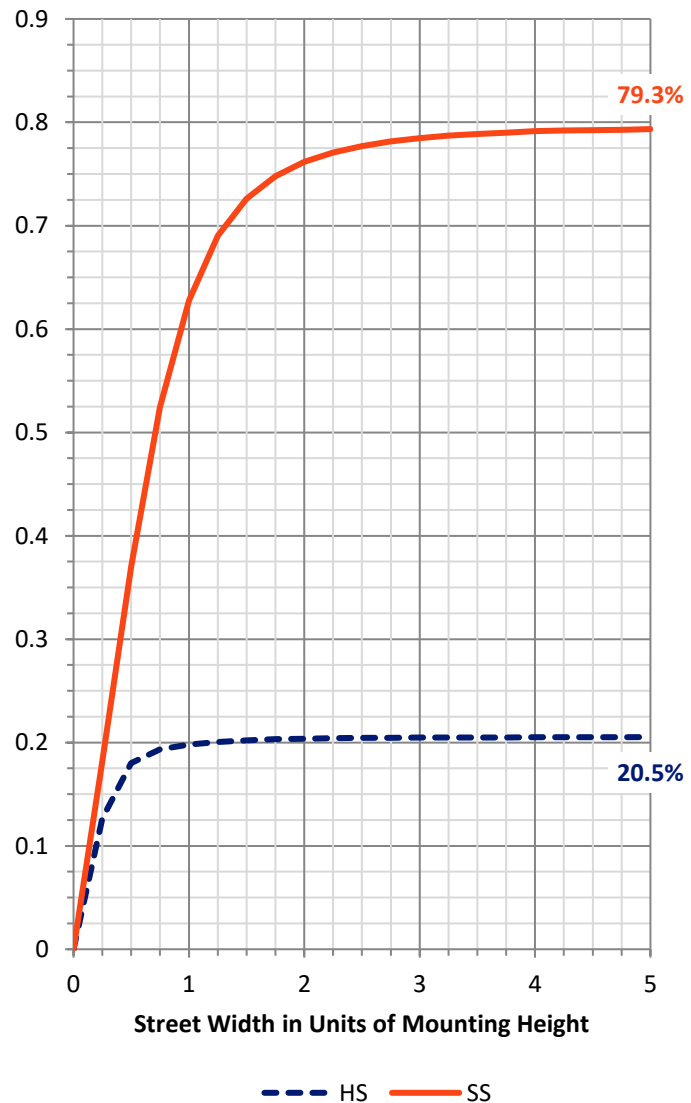
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.2	0.0	1420.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5418.8	0.0	5418.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	6839.0	0.0	6839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	1.7
10°-20°	361.0	5.3
20°-30°	609.4	8.9
30°-40°	906.4	13.3
40°-50°	1226.8	17.9
50°-60°	1411.4	20.6
60°-70°	1362.4	19.9
70°-80°	771.3	11.3
80°-90°	70.8	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°	6839.0	100.0
0°-180°	6839.0	100.0



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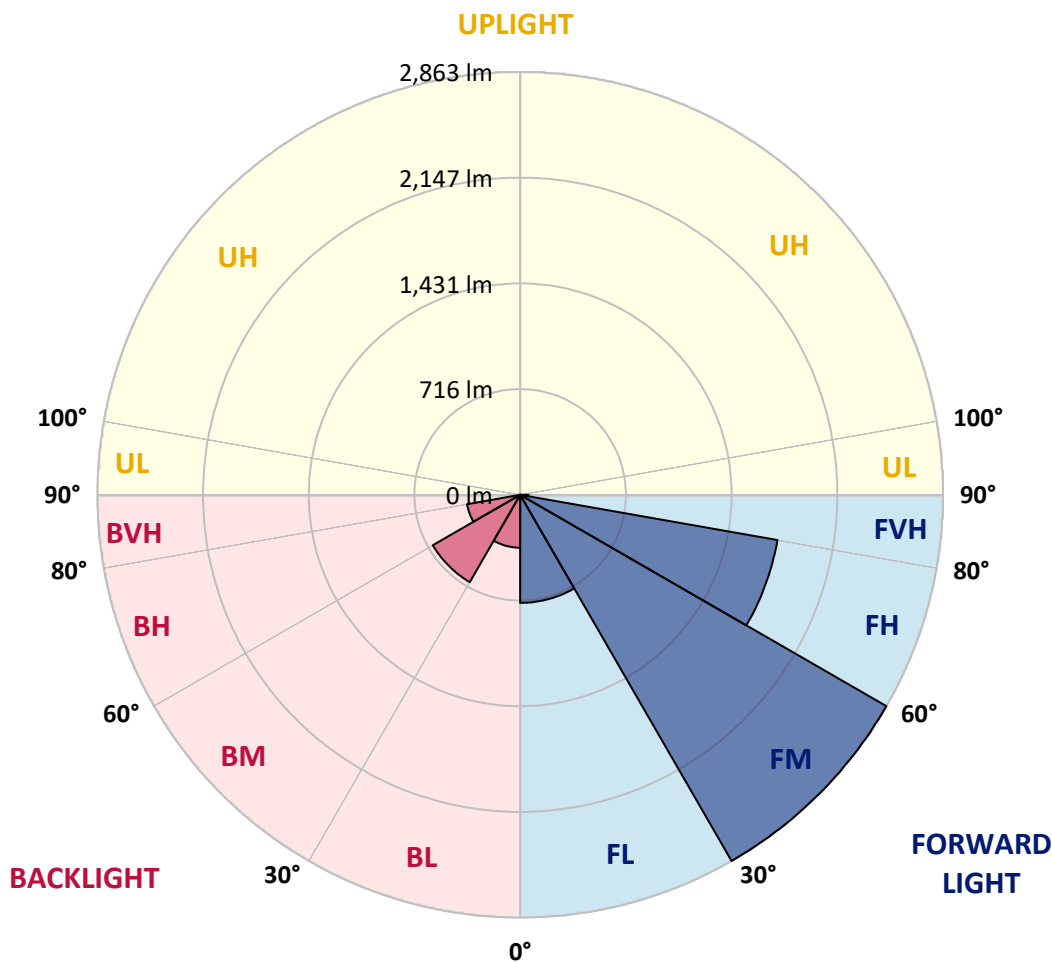
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.8	10.7			
FM (30°-60°)	2862.7	41.9			
FH (60°-80°)	1768.6	25.9			G1/1800
FVH (80°-90°)	55.8	0.8			G1/100
BL (0°-30°)	358.1	5.2	B1/500		
BM (30°-60°)	682.0	10.0	B1/1000		
BH (60°-80°)	365.1	5.3	B1/500		G1/500
BVH (80°-90°)	15.0	0.2			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°	74°	75°	85°
0°	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6
2.5°	1366.8	1357.9	1350.5	1346.5	1335.1	1325.3	1305.7	1285.3	1271.5	1270.7	1257.6
5°	1423.9	1423.1	1406.8	1403.5	1388.0	1383.1	1363.6	1334.2	1300.0	1295.9	1260.9
7.5°	1498.9	1489.9	1472.0	1464.7	1446.7	1433.7	1407.6	1379.9	1345.7	1341.6	1280.5
10°	1571.4	1566.5	1555.9	1556.8	1531.5	1507.0	1467.9	1420.6	1388.0	1383.1	1308.2
12.5°	1655.4	1639.9	1622.0	1612.2	1586.9	1571.4	1533.9	1472.0	1420.6	1415.8	1340.8
15°	1713.2	1705.1	1688.8	1682.3	1657.8	1632.6	1589.4	1541.3	1463.8	1458.9	1374.2
17.5°	1775.2	1771.1	1752.4	1748.3	1724.7	1694.5	1661.1	1598.3	1530.7	1522.5	1414.1
20°	1816.8	1809.4	1807.0	1806.2	1799.6	1780.9	1738.5	1689.6	1614.6	1600.0	1465.5
22.5°	1872.2	1864.8	1868.1	1871.4	1880.3	1872.2	1844.5	1786.6	1712.4	1699.4	1546.2
25°	1877.9	1873.0	1895.0	1940.6	1958.6	1967.5	1946.4	1901.5	1829.8	1812.7	1642.3
27.5°	1893.4	1886.0	1909.7	1957.8	2038.5	2052.3	2056.4	2035.2	1974.9	1965.1	1772.7
30°	1865.7	1860.8	1897.4	1979.8	2070.2	2148.5	2178.6	2208.0	2180.3	2163.2	1954.5
32.5°	1798.0	1801.3	1849.4	1958.6	2125.7	2246.3	2324.5	2428.0	2477.8	2474.5	2276.4
35°	1699.4	1697.8	1778.5	1932.5	2130.6	2338.4	2484.3	2694.6	2833.9	2824.2	2614.7
37.5°	1615.4	1611.4	1702.7	1866.5	2134.6	2411.7	2671.8	2985.5	3162.4	3152.6	2891.0
40°	1512.7	1519.3	1600.8	1789.9	2100.4	2466.4	2834.8	3268.4	3449.3	3449.3	3177.1
42.5°	1409.2	1414.9	1495.6	1683.1	2050.7	2506.3	2988.0	3550.4	3734.6	3738.7	3373.5
45°	1318.8	1321.2	1394.6	1563.3	1961.0	2512.8	3129.0	3833.2	4001.9	3991.3	3597.7
47.5°	1159.8	1186.7	1301.6	1455.7	1838.8	2484.3	3248.0	4085.1	4231.8	4209.8	3811.2
50°	924.3	924.3	1083.2	1353.0	1698.6	2408.5	3341.7	4314.9	4450.2	4429.8	3997.8
52.5°	849.3	850.9	899.8	1208.7	1556.8	2278.1	3395.5	4543.1	4664.6	4650.7	4174.7
55°	809.3	811.8	834.6	979.7	1428.0	2078.4	3397.1	4720.0	4846.3	4815.3	4323.9
57.5°	749.0	745.0	793.0	872.9	1277.2	1820.8	3317.3	4856.9	4987.3	4963.7	4446.1
60°	706.7	700.1	732.7	804.5	1115.0	1554.3	3104.5	4956.3	5108.0	5121.8	4565.9
62.5°	656.9	654.5	685.5	753.1	995.2	1379.9	2785.0	4840.6	5196.8	5174.8	4671.9
65°	607.2	602.3	631.7	684.6	879.4	1237.3	2463.1	4669.5	5128.3	5147.9	4693.1
67.5°	542.0	541.2	568.9	608.0	753.1	1077.5	1996.9	4444.5	4916.4	4902.6	4500.7
70°	463.0	463.0	490.7	524.9	629.2	919.4	1533.1	4059.0	4590.4	4671.1	4171.5
72.5°	374.1	375.7	403.5	442.6	519.2	749.0	1130.5	3530.0	4307.6	4178.0	3706.9
75°	199.7	179.3	316.2	356.2	418.9	597.4	773.5	2295.2	3673.5	3583.8	3075.2
77.5°	48.1	50.5	99.4	185.0	223.3	330.9	380.6	1062.8	2368.6	2511.2	2193.3
80°	31.8	35.0	53.8	131.2	149.2	176.1	150.8	463.0	918.6	978.9	1273.1
82.5°	16.3	17.9	33.4	52.2	53.0	45.6	57.1	233.1	485.8	526.5	612.1
85°	5.7	9.0	17.1	22.8	21.2	17.1	13.9	57.9	114.9	128.0	132.9
87.5°	0.0	0.0	2.4	2.4	1.6	1.6	2.4	2.4	3.3	2.4	2.4
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°	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6	1253.6
2.5°	1247.0	1238.1	1224.2	1209.5	1194.1	1181.0	1173.7	1177.8	1182.6	1167.2	1161.5
5°	1244.6	1229.1	1203.0	1172.0	1148.4	1124.8	1097.1	1090.5	1084.0	1075.9	1066.9
7.5°	1256.0	1233.2	1180.2	1151.7	1102.0	1057.9	1033.5	1015.6	999.3	984.6	975.6
10°	1277.2	1234.8	1175.3	1117.4	1062.8	1009.0	956.1	945.5	942.2	921.0	905.5
12.5°	1291.0	1238.9	1158.2	1088.1	1009.9	952.0	899.0	868.8	866.4	856.6	846.0
15°	1313.1	1255.2	1146.8	1051.4	956.1	894.9	846.0	806.9	787.3	786.5	778.4
17.5°	1353.0	1273.9	1128.9	1013.9	912.9	844.4	774.3	759.6	727.0	708.3	703.4
20°	1393.7	1301.6	1124.0	976.4	856.6	771.9	718.1	677.3	651.2	631.7	619.4
22.5°	1446.7	1341.6	1125.6	954.4	811.0	717.2	647.2	586.8	538.8	515.1	503.7
25°	1523.3	1388.0	1137.8	921.0	757.2	658.6	556.7	476.8	409.2	392.0	383.9
27.5°	1621.1	1453.2	1154.9	886.8	707.5	579.5	447.5	357.8	301.6	288.5	280.4
30°	1771.1	1551.0	1157.4	865.6	662.6	476.8	335.0	264.9	220.9	207.0	208.7
32.5°	2053.1	1760.5	1190.0	821.6	582.8	366.0	246.1	193.2	159.8	154.9	163.0
35°	2380.8	2007.5	1252.7	798.8	491.5	264.9	176.1	141.8	120.6	127.1	130.4
37.5°	2591.9	2225.1	1353.0	746.6	384.7	194.8	123.1	110.8	106.8	110.8	118.2
40°	2838.0	2402.0	1438.6	693.6	273.0	133.7	98.6	101.1	96.2	95.4	98.6
42.5°	3037.7	2583.7	1529.9	606.4	189.9	99.4	90.5	92.1	88.8	84.8	84.8
45°	3227.6	2741.0	1529.0	489.0	125.5	88.0	83.1	86.4	85.6	79.9	79.1
47.5°	3393.9	2900.0	1529.9	355.4	95.4	80.7	77.4	80.7	80.7	75.8	75.0
50°	3600.1	3032.0	1505.4	227.4	87.2	75.0	74.2	73.4	76.6	70.1	68.5
52.5°	3726.4	3128.2	1395.4	153.2	80.7	70.9	69.3	67.6	69.3	63.6	63.6
55°	3865.0	3248.0	1251.9	121.4	76.6	66.0	65.2	63.6	63.6	57.1	57.9
57.5°	4015.8	3345.8	1058.8	106.8	73.4	62.8	61.1	58.7	55.4	50.5	49.7
60°	4125.0	3366.2	866.4	97.0	70.9	61.1	54.6	51.3	45.6	42.4	41.6
62.5°	4161.7	3376.8	702.6	87.2	66.8	56.2	48.9	43.2	36.7	34.2	34.2
65°	4131.5	3254.5	526.5	79.1	61.9	52.2	43.2	35.0	28.5	26.1	25.3
67.5°	3937.5	3029.6	383.1	70.9	54.6	47.3	37.5	28.5	22.8	20.4	20.4
70°	3584.6	2764.7	259.2	59.5	47.3	41.6	35.0	22.8	18.7	16.3	15.5
72.5°	3199.9	2344.1	165.5	48.1	36.7	32.6	25.3	19.6	15.5	12.2	12.2
75°	2530.7	1841.2	114.9	35.0	26.1	24.5	19.6	16.3	13.0	9.8	9.8
77.5°	1761.3	1196.5	90.5	26.9	17.9	16.3	14.7	12.2	10.6	8.2	7.3
80°	1021.3	719.7	54.6	17.9	12.2	10.6	9.8	9.8	8.2	5.7	5.7
82.5°	507.0	299.9	23.6	11.4	8.2	7.3	6.5	5.7	5.7	4.1	4.1
85°	99.4	51.3	9.0	5.7	4.1	4.1	3.3	3.3	2.4	1.6	1.6
87.5°	3.3	2.4	2.4	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0
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)