

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: P509112

Luminaire Tested: **VERD-CA2-110-727-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-727-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12339 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

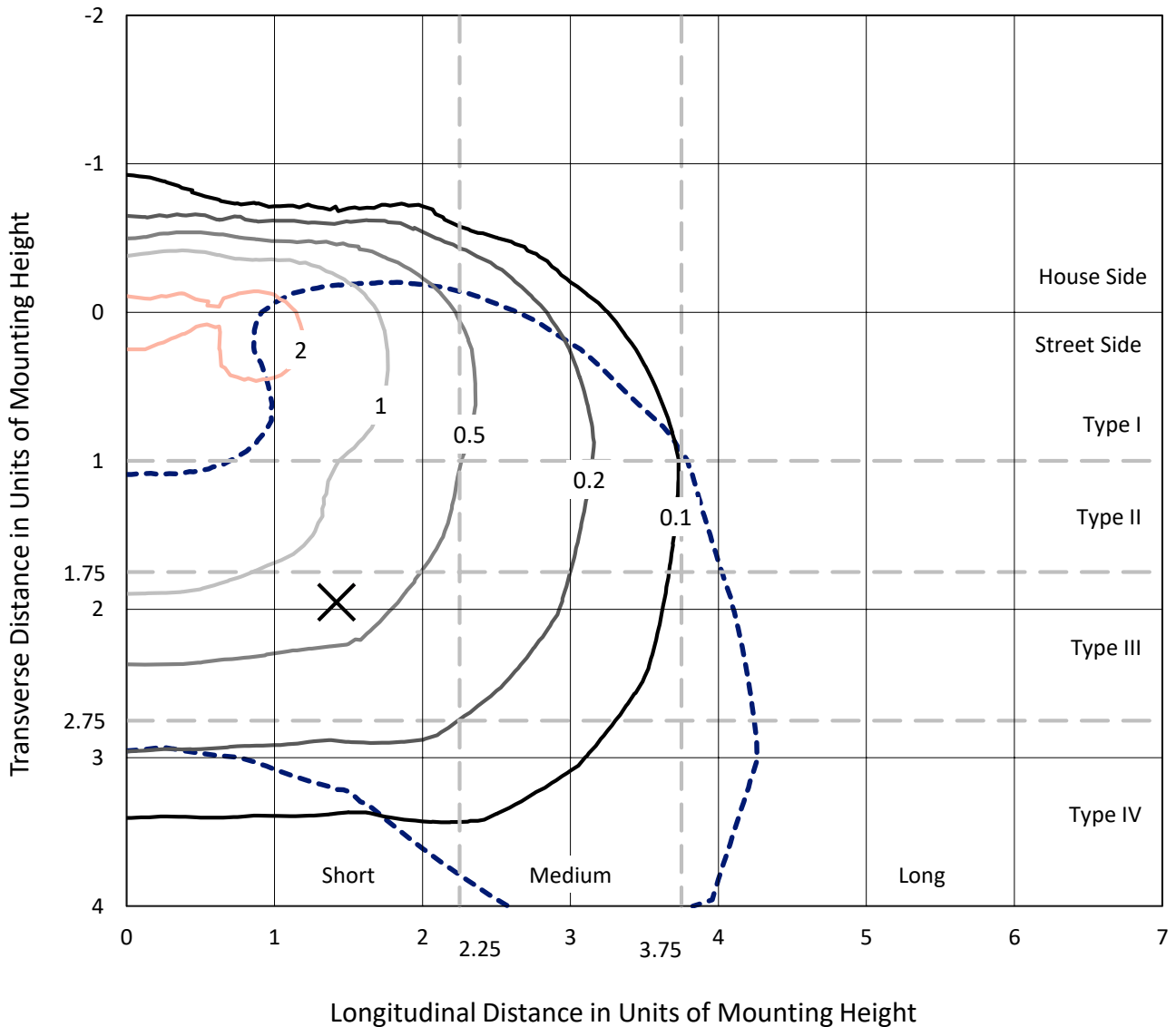
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

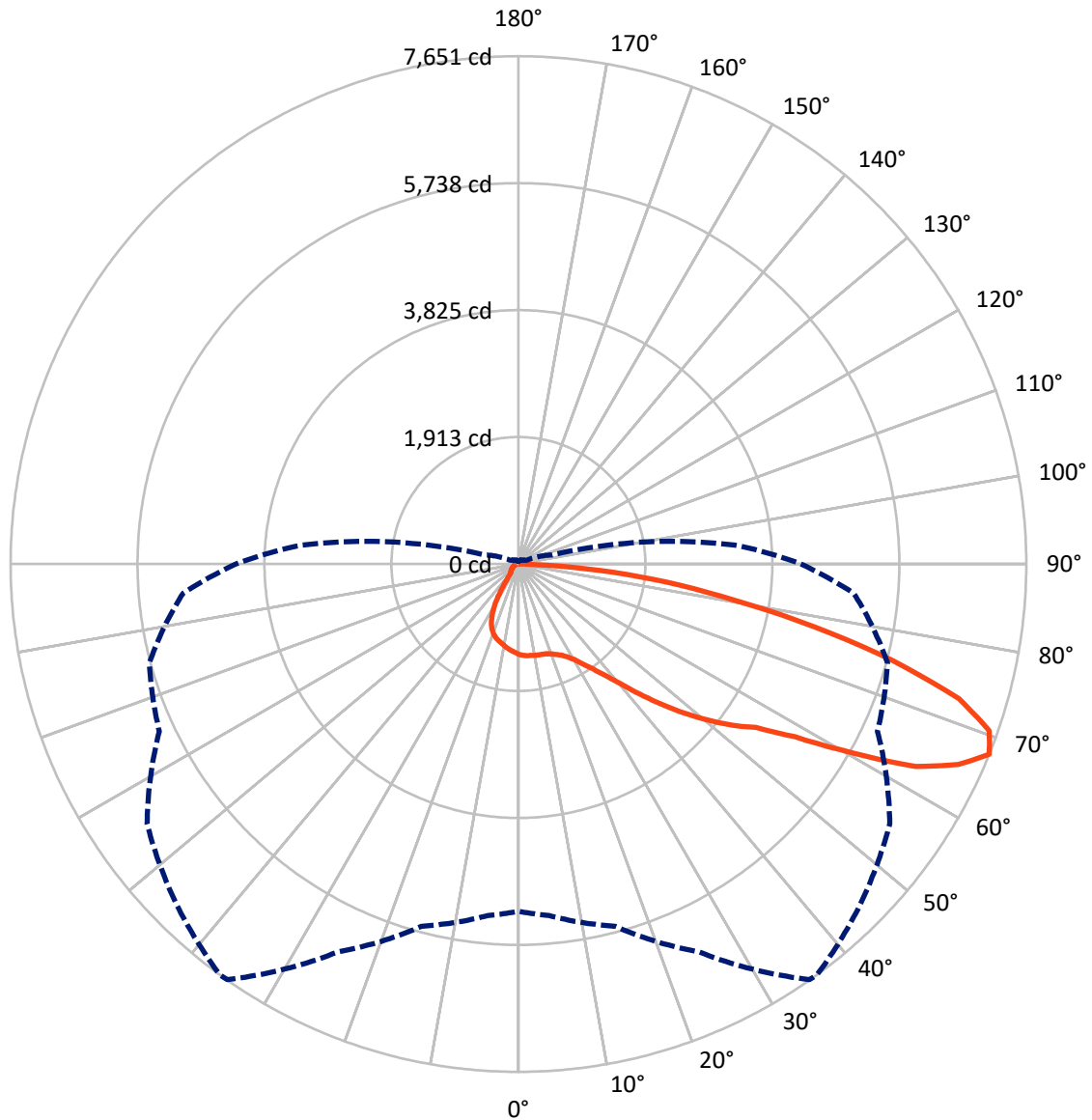
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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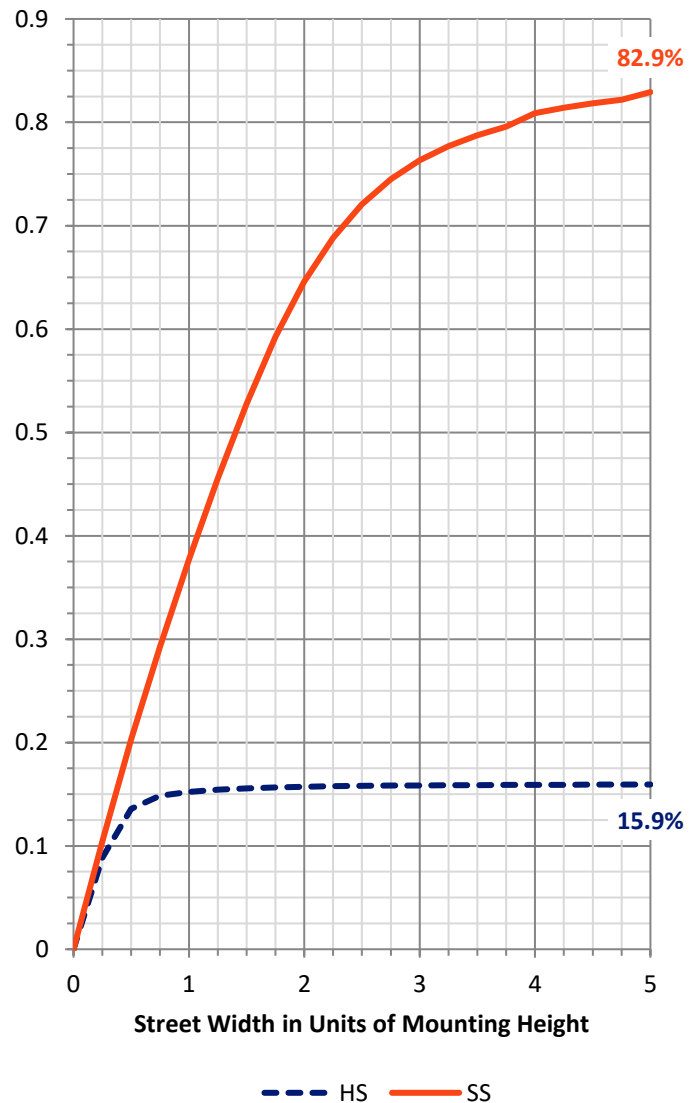
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1989.9	0.0	1989.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	10349.1	0.0	10349.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	12339.0	0.0	12339.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	1.0
10°-20°	381.3	3.1
20°-30°	630.6	5.1
30°-40°	1000.2	8.1
40°-50°	1726.4	14.0
50°-60°	2559.0	20.7
60°-70°	3308.4	26.8
70°-80°	2233.3	18.1
80°-90°	371.2	3.0
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°	12339.0	100.0
0°-180°	12339.0	100.0



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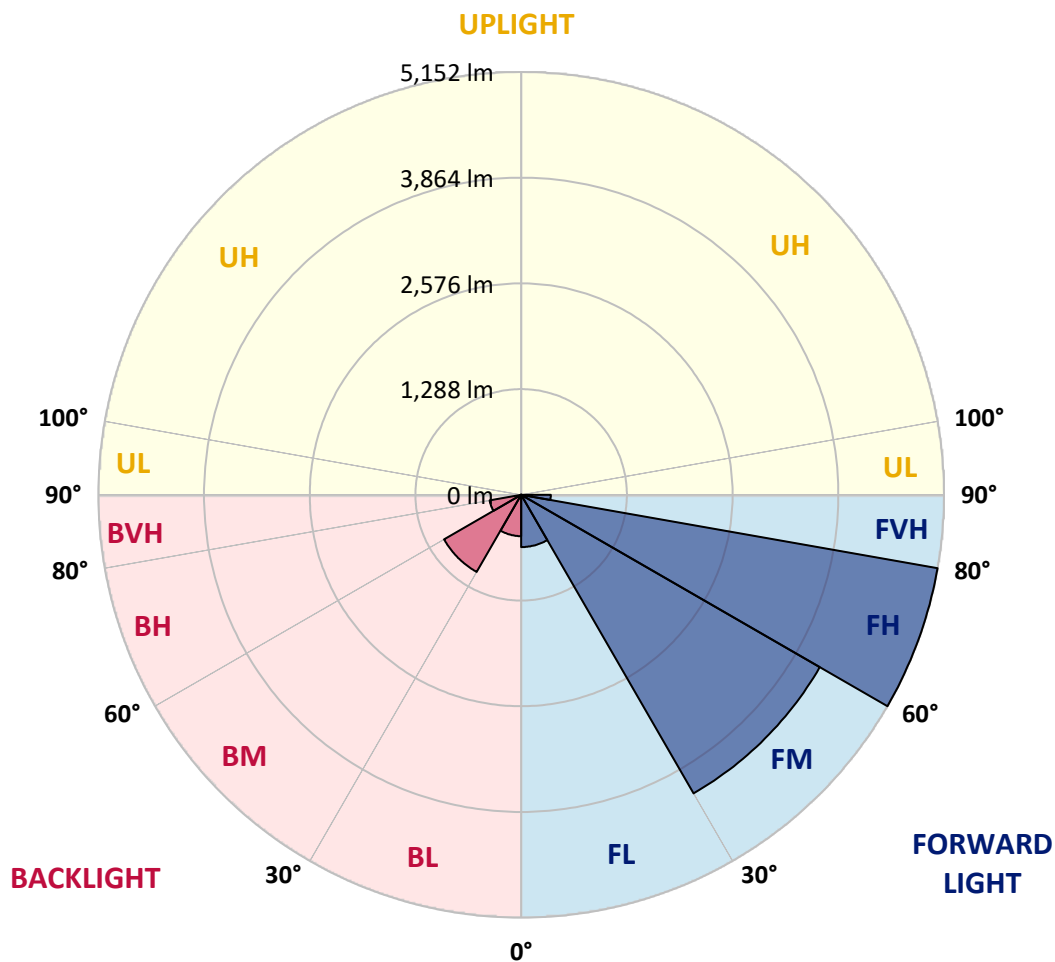
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.9	5.2			
FM	(30°-60°)	4200.0	34.0			
FH	(60°-80°)	5151.5	41.8			G3/7500
FVH	(80°-90°)	360.7	2.9			G3/500
BL	(0°-30°)	503.6	4.1	B2/1000		
BM	(30°-60°)	1085.6	8.8	B2/2500		
BH	(60°-80°)	390.1	3.2	B1/500		G1/500
BVH	(80°-90°)	10.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1369.6	1382.9	1381.4	1379.9	1379.9	1378.4	1369.6	1360.7	1365.2	1363.7	1362.2
5°	1375.5	1388.8	1387.3	1385.8	1385.8	1387.3	1374.0	1363.7	1366.6	1369.6	1368.1
7.5°	1378.4	1390.3	1387.3	1385.8	1384.4	1388.8	1378.4	1379.9	1382.9	1382.9	1382.9
10°	1382.9	1391.7	1391.7	1393.2	1394.7	1399.1	1394.7	1399.1	1410.9	1408.0	1415.3
12.5°	1371.1	1381.4	1385.8	1393.2	1400.6	1403.5	1408.0	1419.8	1434.5	1441.9	1449.3
15°	1366.6	1377.0	1384.4	1393.2	1405.0	1408.0	1419.8	1440.4	1458.1	1472.9	1489.1
17.5°	1381.4	1393.2	1403.5	1409.4	1415.3	1419.8	1431.6	1458.1	1489.1	1515.7	1539.3
20°	1409.4	1421.2	1433.1	1439.0	1443.4	1446.3	1455.2	1480.3	1520.1	1561.5	1595.4
22.5°	1441.9	1453.7	1467.0	1471.4	1481.8	1481.8	1483.2	1508.3	1557.0	1613.1	1654.4
25°	1477.3	1484.7	1496.5	1503.9	1518.7	1521.6	1526.0	1548.2	1608.7	1672.1	1737.1
27.5°	1518.7	1533.4	1545.2	1554.1	1583.6	1585.1	1582.1	1610.2	1669.2	1747.4	1838.9
30°	1593.9	1610.2	1622.0	1636.7	1675.1	1673.6	1692.8	1722.3	1756.3	1841.9	1964.4
32.5°	1713.5	1714.9	1720.8	1740.0	1794.6	1800.5	1837.4	1890.6	1958.5	2013.1	2142.9
35°	1931.9	1924.5	1906.8	1903.9	1940.7	1943.7	2016.0	2128.2	2275.8	2457.3	2658.0
37.5°	2187.2	2206.4	2185.7	2122.3	2128.2	2129.7	2215.3	2358.4	2632.9	3087.5	3277.9
40°	2635.9	2646.2	2517.8	2417.4	2382.0	2365.8	2410.1	2627.0	2978.3	3570.1	3704.4
42.5°	3031.4	3031.4	2911.9	2756.9	2666.9	2678.7	2665.4	2880.9	3332.5	3989.2	4037.9
45°	3426.9	3413.6	3304.4	3174.6	3016.6	3006.3	2972.4	3137.7	3658.6	4290.3	4291.8
47.5°	3795.9	3826.9	3663.1	3519.9	3359.0	3351.7	3291.2	3419.6	3971.5	4554.5	4514.6
50°	4184.0	4226.8	4021.7	3860.8	3686.7	3697.0	3646.8	3736.9	4282.9	4801.0	4728.6
52.5°	4736.0	4656.3	4411.3	4188.5	4008.4	4037.9	3986.3	4039.4	4606.1	4997.2	4846.7
55°	5327.8	5186.2	4982.5	4609.1	4347.9	4344.9	4306.5	4370.0	4932.3	5221.6	4981.0
57.5°	5645.1	5687.9	5640.7	5338.2	4916.1	4908.7	4678.5	4685.8	5231.9	5413.4	5168.4
60°	6006.7	6059.9	6163.2	5974.3	5763.2	5769.1	5195.0	5023.8	5547.7	5566.9	5183.2
62.5°	6198.6	6204.5	6442.1	6508.5	6679.7	6718.1	6282.7	5437.0	5757.3	5685.0	5208.3
65°	5859.1	5869.5	6327.0	6662.0	7233.2	7284.8	7097.4	6237.0	5913.7	5747.0	5184.7
67.5°	5231.9	5316.0	5649.6	6449.5	7643.4	7650.8	7273.0	6828.8	5968.4	5755.8	5071.0
70°	4384.8	4355.2	4777.3	5738.1	7580.0	7525.4	7196.3	6896.7	5928.5	5634.8	4553.0
72.5°	3251.3	3207.0	3642.4	4613.5	6837.6	6940.9	6852.4	6499.7	5778.0	5183.2	3695.5
75°	2225.6	2277.2	2668.3	3478.6	5679.1	5835.5	6226.6	6192.7	5140.4	4296.2	2529.6
77.5°	1523.1	1545.2	1880.2	2588.6	4501.4	4561.9	5209.8	5003.1	3779.7	2640.3	844.2
80°	991.8	984.4	1285.5	1843.3	3300.0	3292.6	3720.6	3165.7	2036.7	900.3	116.6
82.5°	553.4	585.9	770.4	1211.7	2230.0	2253.6	2323.0	1731.2	783.7	104.8	73.8
85°	311.4	324.7	442.8	686.3	1168.9	1227.9	1036.0	636.1	140.2	57.6	42.8
87.5°	73.8	70.8	141.7	262.7	194.8	211.0	100.4	29.5	14.8	10.3	10.3
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°	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1362.2	1359.3	1356.3	1350.4	1346.0	1332.7	1334.2	1343.0	1334.2	1348.9	1340.1
5°	1365.2	1360.7	1353.4	1335.6	1322.4	1312.0	1309.1	1307.6	1295.8	1309.1	1303.2
7.5°	1377.0	1372.5	1356.3	1337.1	1317.9	1286.9	1282.5	1276.6	1254.5	1263.3	1256.0
10°	1405.0	1399.1	1371.1	1344.5	1315.0	1273.7	1250.0	1232.3	1207.2	1210.2	1202.8
12.5°	1440.4	1434.5	1402.1	1357.8	1316.5	1258.9	1217.6	1183.6	1146.7	1146.7	1139.4
15°	1481.8	1475.9	1439.0	1387.3	1322.4	1247.1	1185.1	1130.5	1071.5	1064.1	1055.2
17.5°	1537.8	1529.0	1486.2	1419.8	1338.6	1236.8	1152.6	1071.5	981.4	953.4	938.6
20°	1595.4	1585.1	1548.2	1465.5	1360.7	1226.4	1105.4	994.7	878.1	820.6	810.2
22.5°	1669.2	1666.2	1620.5	1505.4	1368.1	1204.3	1046.4	909.1	752.7	673.0	656.8
25°	1756.3	1751.8	1681.0	1536.4	1359.3	1160.0	962.3	786.6	611.0	531.3	513.6
27.5°	1859.6	1847.8	1732.7	1543.7	1334.2	1090.7	854.5	628.7	451.6	383.7	370.4
30°	1968.8	1951.1	1787.3	1545.2	1284.0	1005.1	712.8	461.9	320.3	271.6	271.6
32.5°	2151.8	2091.3	1840.4	1524.6	1211.7	882.6	543.1	311.4	224.3	205.1	205.1
35°	2544.4	2399.7	1924.5	1498.0	1117.2	730.5	369.0	211.0	187.4	187.4	186.0
37.5°	3133.2	2864.6	2067.7	1453.7	988.8	543.1	243.5	174.2	178.6	178.6	178.6
40°	3509.6	3227.7	2262.5	1384.4	841.2	369.0	174.2	165.3	168.2	171.2	171.2
42.5°	3860.8	3543.5	2457.3	1288.4	678.9	236.1	162.3	155.0	156.4	156.4	157.9
45°	4083.7	3778.2	2601.9	1186.6	500.3	168.2	159.4	146.1	141.7	141.7	144.6
47.5°	4290.3	3931.7	2665.4	1052.3	323.2	157.9	152.0	135.8	129.9	128.4	128.4
50°	4496.9	4089.6	2700.8	892.9	202.2	152.0	140.2	124.0	118.1	116.6	116.6
52.5°	4588.4	4139.8	2621.1	712.8	150.5	146.1	131.4	113.6	104.8	104.8	104.8
55°	4684.4	4232.7	2486.8	510.6	143.2	135.8	121.0	101.8	94.5	97.4	97.4
57.5°	4790.6	4166.3	2343.7	332.1	141.7	122.5	107.7	91.5	85.6	88.6	90.0
60°	4758.2	4182.6	2138.5	222.9	135.8	112.2	97.4	81.2	76.7	76.7	76.7
62.5°	4758.2	4057.1	1802.0	169.7	124.0	103.3	90.0	75.3	67.9	64.9	62.0
65°	4632.7	3760.5	1316.5	147.6	110.7	95.9	81.2	66.4	57.6	53.1	51.7
67.5°	4253.4	3269.0	529.8	134.3	101.8	88.6	75.3	60.5	50.2	44.3	42.8
70°	3615.8	2413.0	152.0	119.5	103.3	82.6	70.8	53.1	44.3	36.9	35.4
72.5°	2680.2	1275.1	124.0	94.5	91.5	70.8	66.4	50.2	38.4	31.0	29.5
75°	1353.4	174.2	106.3	67.9	70.8	73.8	63.5	44.3	35.4	25.1	23.6
77.5°	140.2	103.3	93.0	45.8	50.2	51.7	54.6	41.3	31.0	20.7	19.2
80°	87.1	78.2	91.5	39.8	29.5	35.4	36.9	32.5	25.1	16.2	16.2
82.5°	62.0	66.4	67.9	25.1	22.1	20.7	19.2	19.2	22.1	14.8	14.8
85°	42.8	44.3	28.0	16.2	14.8	13.3	11.8	11.8	10.3	11.8	10.3
87.5°	10.3	8.9	8.9	8.9	7.4	7.4	5.9	5.9	5.9	5.9	7.4
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)