

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: P509096

Luminaire Tested: **VERD-CA2-100-760-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509096
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-CA2-100-760-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1370mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12597 lumens
Efficiency: N/A
Efficacy: 121.8 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

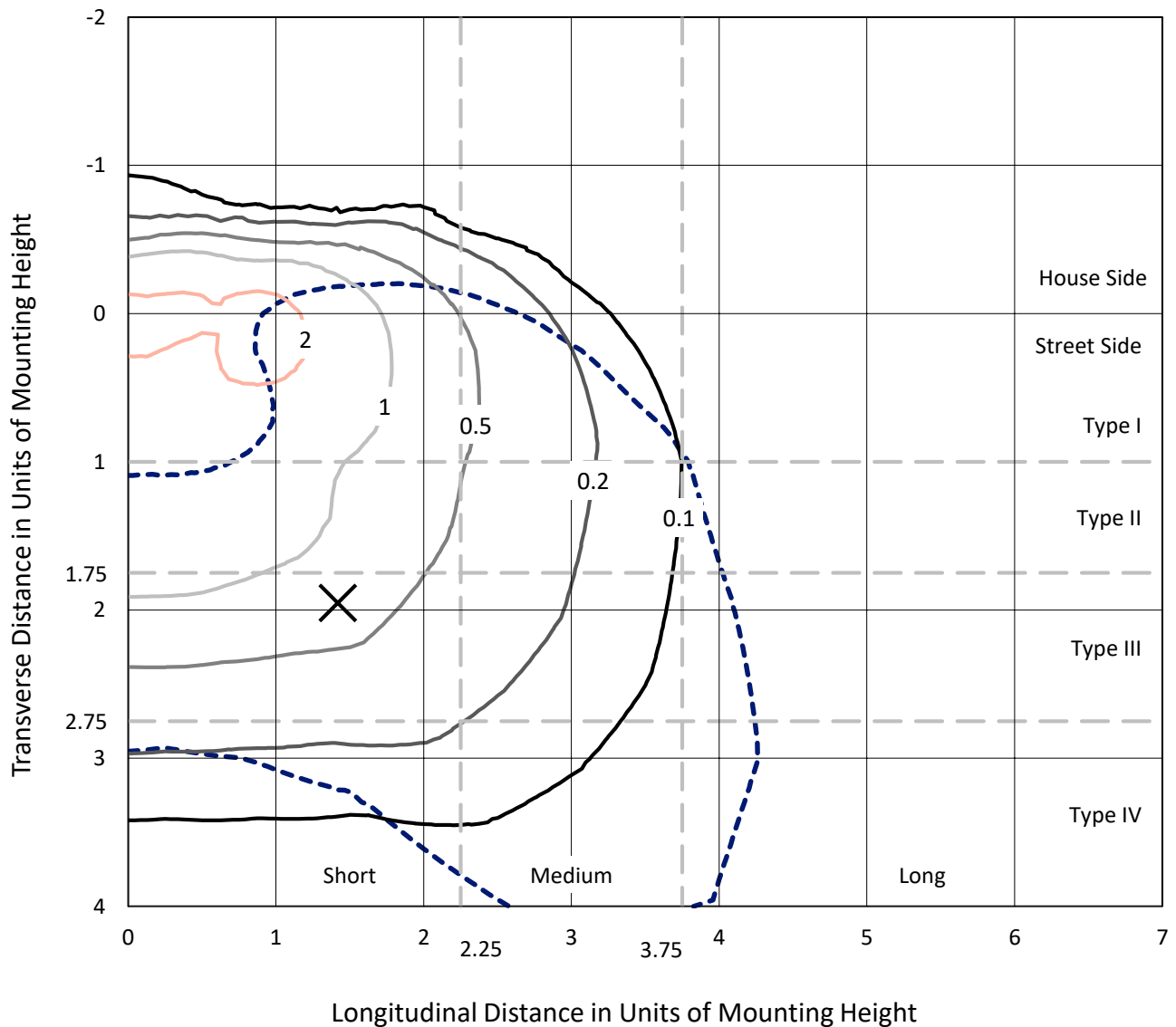
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

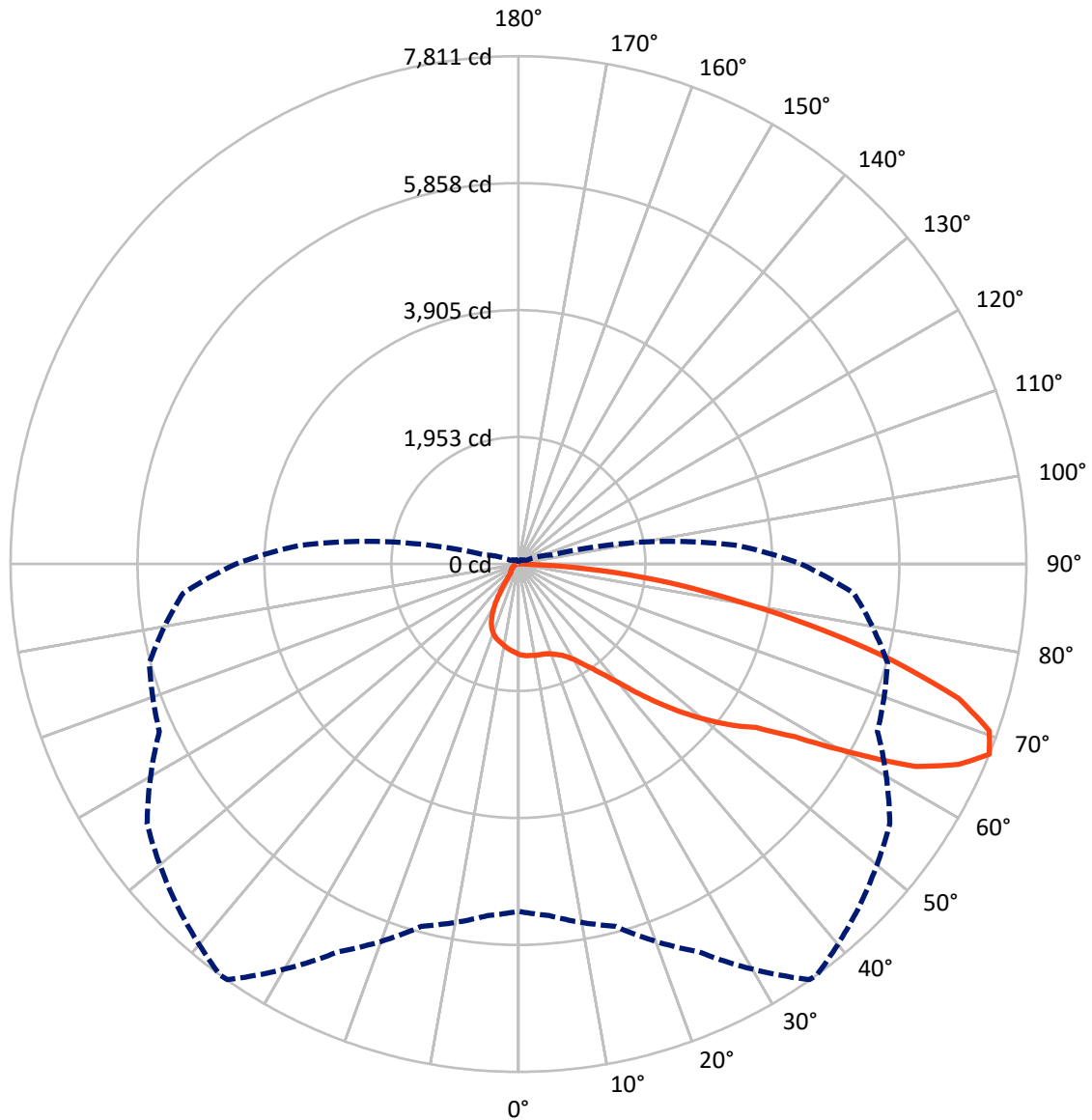
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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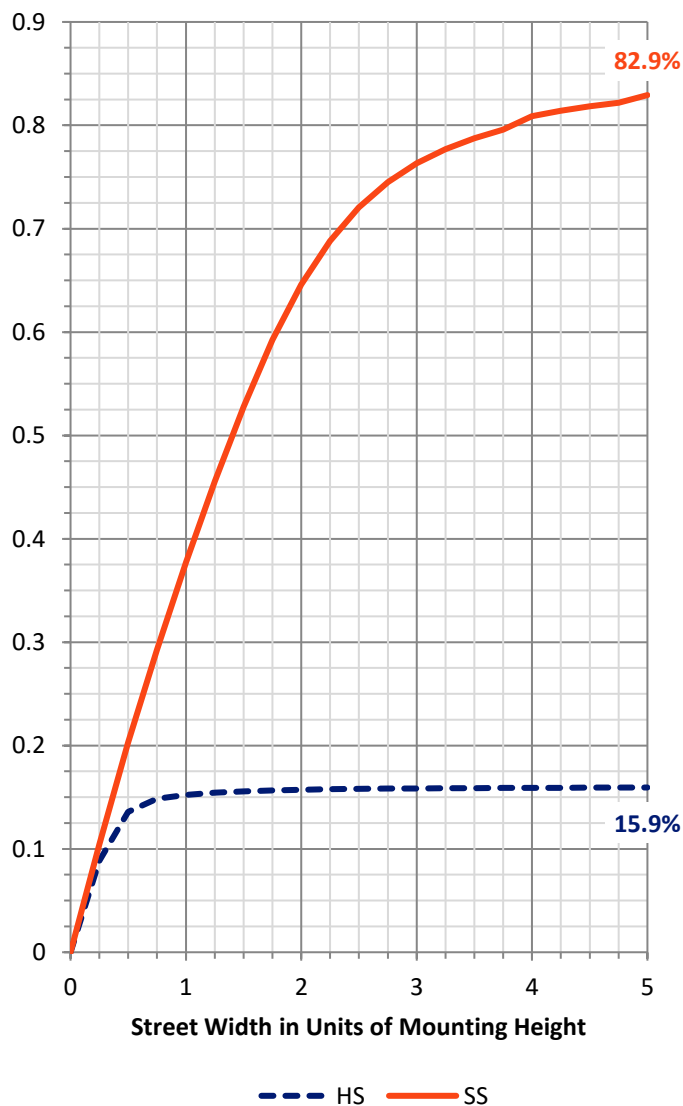
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2031.5	0.0	2031.5
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	10565.5	0.0	10565.5
	% Fixture	83.9	0.0	83.9
Total	Lumens	12597.0	0.0	12597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.0
10°-20°	389.2	3.1
20°-30°	643.7	5.1
30°-40°	1021.1	8.1
40°-50°	1762.5	14.0
50°-60°	2612.5	20.7
60°-70°	3377.6	26.8
70°-80°	2280.0	18.1
80°-90°	379.0	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°	12597.0	100.0
0°-180°	12597.0	100.0

Coefficient of Utilization



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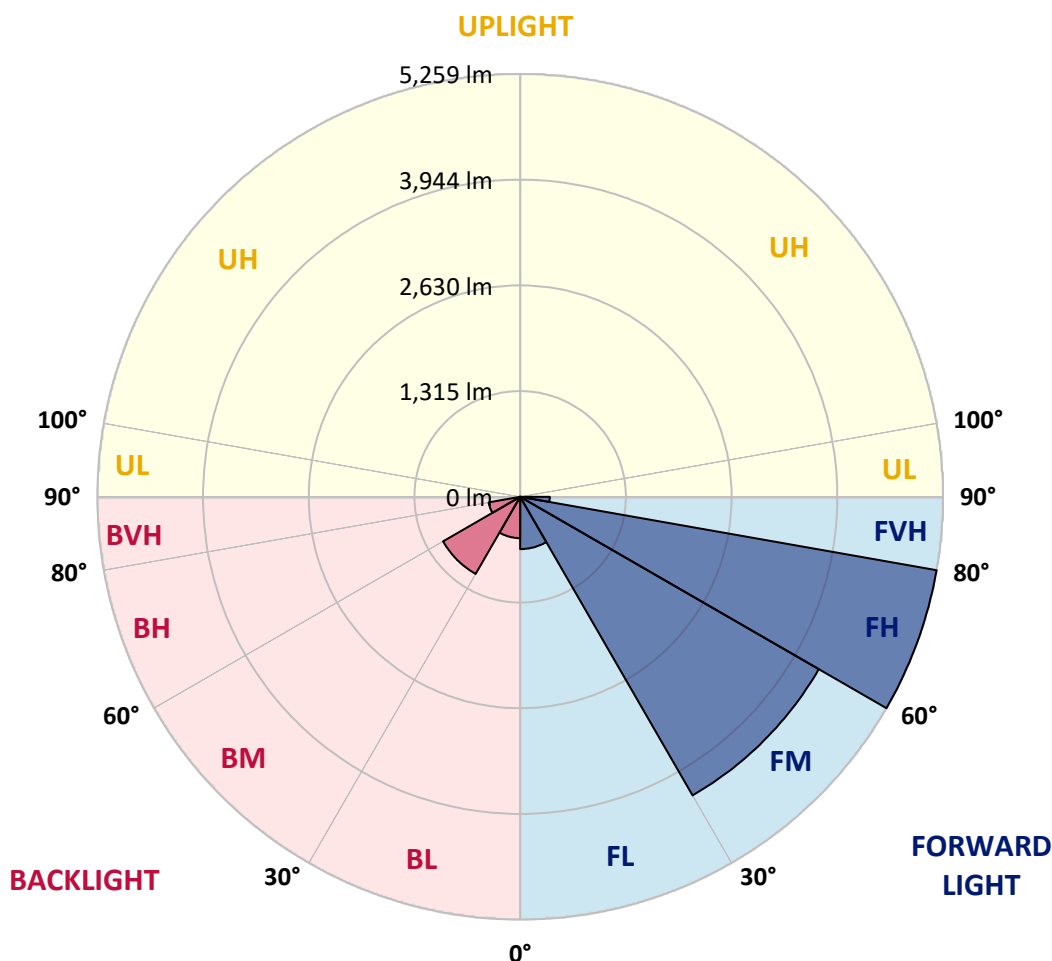
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.2	5.2			
FM	(30°-60°)	4287.8	34.0			
FH	(60°-80°)	5259.3	41.8			G3/7500
FVH	(80°-90°)	368.2	2.9			G3/500
BL	(0°-30°)	514.1	4.1	B2/1000		
BM	(30°-60°)	1108.3	8.8	B2/2500		
BH	(60°-80°)	398.3	3.2	B1/500		G1/500
BVH	(80°-90°)	10.8	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°	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2
2.5°	1398.2	1411.8	1410.3	1408.8	1408.8	1407.3	1398.2	1389.2	1393.7	1392.2	1390.7
5°	1404.3	1417.8	1416.3	1414.8	1414.8	1416.3	1402.7	1392.2	1395.2	1398.2	1396.7
7.5°	1407.3	1419.3	1416.3	1414.8	1413.3	1417.8	1407.3	1408.8	1411.8	1411.8	1411.8
10°	1411.8	1420.8	1420.8	1422.3	1423.8	1428.4	1423.8	1428.4	1440.4	1437.4	1444.9
12.5°	1399.7	1410.3	1414.8	1422.3	1429.9	1432.9	1437.4	1449.5	1464.5	1472.1	1479.6
15°	1395.2	1405.8	1413.3	1422.3	1434.4	1437.4	1449.5	1470.6	1488.6	1503.7	1520.3
17.5°	1410.3	1422.3	1432.9	1438.9	1444.9	1449.5	1461.5	1488.6	1520.3	1547.4	1571.5
20°	1438.9	1451.0	1463.0	1469.0	1473.6	1476.6	1485.6	1511.2	1551.9	1594.1	1628.8
22.5°	1472.1	1484.1	1497.7	1502.2	1512.7	1512.7	1514.2	1539.9	1589.6	1646.8	1689.0
25°	1508.2	1515.8	1527.8	1535.3	1550.4	1553.4	1557.9	1580.5	1642.3	1707.1	1773.4
27.5°	1550.4	1565.5	1577.5	1586.6	1616.7	1618.2	1615.2	1643.8	1704.1	1783.9	1877.4
30°	1627.2	1643.8	1655.9	1670.9	1710.1	1708.6	1728.2	1758.3	1793.0	1880.4	2005.4
32.5°	1749.3	1750.8	1756.8	1776.4	1832.2	1838.2	1875.9	1930.1	1999.4	2055.2	2187.7
35°	1972.3	1964.8	1946.7	1943.7	1981.3	1984.3	2058.2	2172.7	2323.4	2508.7	2713.6
37.5°	2232.9	2252.5	2231.4	2166.7	2172.7	2174.2	2261.6	2407.7	2688.0	3152.0	3346.4
40°	2691.0	2701.5	2570.5	2468.0	2431.8	2415.3	2460.5	2681.9	3040.5	3644.7	3781.8
42.5°	3094.8	3094.8	2972.7	2814.5	2722.6	2734.7	2721.1	2941.1	3402.2	4072.6	4122.4
45°	3498.6	3485.0	3373.5	3240.9	3079.7	3069.2	3034.5	3203.3	3735.1	4380.0	4381.5
47.5°	3875.3	3906.9	3739.7	3593.5	3429.3	3421.7	3360.0	3491.1	4054.6	4649.7	4609.0
50°	4271.5	4315.2	4105.8	3941.6	3763.8	3774.3	3723.1	3815.0	4372.5	4901.3	4827.5
52.5°	4835.0	4753.7	4503.6	4276.1	4092.2	4122.4	4069.6	4123.9	4702.5	5101.7	4948.0
55°	5439.2	5294.6	5086.7	4705.5	4438.8	4435.8	4396.6	4461.4	5035.4	5330.7	5085.2
57.5°	5763.2	5806.9	5758.7	5449.8	5018.9	5011.3	4776.3	4783.8	5341.3	5526.6	5276.5
60°	6132.3	6186.6	6292.0	6099.2	5883.7	5889.7	5303.6	5128.9	5663.7	5683.3	5291.6
62.5°	6328.2	6334.2	6576.8	6644.6	6819.4	6858.6	6414.1	5550.7	5877.7	5803.9	5317.2
65°	5981.6	5992.2	6459.3	6801.3	7384.4	7437.1	7245.8	6367.4	6037.4	5867.1	5293.1
67.5°	5341.3	5427.2	5767.7	6584.3	7803.3	7810.8	7425.1	6971.6	6093.1	5876.2	5177.1
70°	4476.4	4446.3	4877.2	5858.1	7738.5	7682.7	7346.7	7040.9	6052.5	5752.6	4648.2
72.5°	3319.3	3274.1	3718.6	4710.0	6980.6	7086.1	6995.7	6635.6	5898.8	5291.6	3772.8
75°	2272.1	2324.9	2724.1	3551.3	5797.8	5957.5	6356.8	6322.2	5247.9	4386.0	2582.5
77.5°	1554.9	1577.5	1919.6	2642.8	4595.5	4657.2	5318.7	5107.8	3858.7	2695.5	861.8
80°	1012.5	1005.0	1312.3	1881.9	3369.0	3361.5	3798.4	3231.9	2079.3	919.1	119.0
82.5°	565.0	598.2	786.5	1237.0	2276.6	2300.8	2371.6	1767.4	800.1	107.0	75.3
85°	317.9	331.5	452.0	700.6	1193.3	1253.6	1057.7	649.4	143.1	58.8	43.7
87.5°	75.3	72.3	144.6	268.2	198.9	215.5	102.5	30.1	15.1	10.5	10.5
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°	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2
2.5°	1390.7	1387.7	1384.7	1378.6	1374.1	1360.6	1362.1	1371.1	1362.1	1377.1	1368.1
5°	1393.7	1389.2	1381.7	1363.6	1350.0	1339.5	1336.5	1334.9	1322.9	1336.5	1330.4
7.5°	1405.8	1401.2	1384.7	1365.1	1345.5	1313.9	1309.3	1303.3	1280.7	1289.7	1282.2
10°	1434.4	1428.4	1399.7	1372.6	1342.5	1300.3	1276.2	1258.1	1232.5	1235.5	1228.0
12.5°	1470.6	1464.5	1431.4	1386.2	1344.0	1285.2	1243.0	1208.4	1170.7	1170.7	1163.2
15°	1512.7	1506.7	1469.0	1416.3	1350.0	1273.2	1209.9	1154.1	1093.9	1086.3	1077.3
17.5°	1570.0	1561.0	1517.3	1449.5	1366.6	1262.6	1176.7	1093.9	1002.0	973.3	958.3
20°	1628.8	1618.2	1580.5	1496.2	1389.2	1252.1	1128.5	1015.5	896.5	837.7	827.2
22.5°	1704.1	1701.1	1654.4	1536.8	1396.7	1229.5	1068.3	928.1	768.4	687.1	670.5
25°	1793.0	1788.5	1716.1	1568.5	1387.7	1184.3	982.4	803.1	623.8	542.4	524.3
27.5°	1898.5	1886.4	1768.9	1576.0	1362.1	1113.5	872.4	641.9	461.1	391.7	378.2
30°	2010.0	1991.9	1824.6	1577.5	1310.8	1026.1	727.7	471.6	327.0	277.2	277.2
32.5°	2196.8	2135.0	1878.9	1556.4	1237.0	901.0	554.5	317.9	229.0	209.4	209.4
35°	2597.6	2449.9	1964.8	1529.3	1140.6	745.8	376.7	215.5	191.4	191.4	189.8
37.5°	3198.8	2924.5	2110.9	1484.1	1009.5	554.5	248.6	177.8	182.3	182.3	182.3
40°	3583.0	3295.2	2309.8	1413.3	858.8	376.7	177.8	168.8	171.8	174.8	174.8
42.5°	3941.6	3617.6	2508.7	1315.4	693.1	241.1	165.7	158.2	159.7	159.7	161.2
45°	4169.1	3857.2	2656.3	1211.4	510.8	171.8	162.7	149.2	144.6	144.6	147.7
47.5°	4380.0	4013.9	2721.1	1074.3	330.0	161.2	155.2	138.6	132.6	131.1	131.1
50°	4591.0	4175.1	2757.3	911.6	206.4	155.2	143.1	126.6	120.5	119.0	119.0
52.5°	4684.4	4226.3	2675.9	727.7	153.7	149.2	134.1	116.0	107.0	107.0	107.0
55°	4782.3	4321.3	2538.8	521.3	146.2	138.6	123.6	104.0	96.4	99.4	99.4
57.5°	4890.8	4253.5	2392.7	339.0	144.6	125.1	110.0	93.4	87.4	90.4	91.9
60°	4857.6	4270.0	2183.2	227.5	138.6	114.5	99.4	82.9	78.3	78.3	78.3
62.5°	4857.6	4142.0	1839.7	173.3	126.6	105.5	91.9	76.8	69.3	66.3	63.3
65°	4729.6	3839.1	1344.0	150.7	113.0	97.9	82.9	67.8	58.8	54.2	52.7
67.5°	4342.3	3337.4	540.9	137.1	104.0	90.4	76.8	61.8	51.2	45.2	43.7
70°	3691.4	2463.5	155.2	122.0	105.5	84.4	72.3	54.2	45.2	37.7	36.2
72.5°	2736.2	1301.8	126.6	96.4	93.4	72.3	67.8	51.2	39.2	31.6	30.1
75°	1381.7	177.8	108.5	69.3	72.3	75.3	64.8	45.2	36.2	25.6	24.1
77.5°	143.1	105.5	94.9	46.7	51.2	52.7	55.7	42.2	31.6	21.1	19.6
80°	88.9	79.9	93.4	40.7	30.1	36.2	37.7	33.1	25.6	16.6	16.6
82.5°	63.3	67.8	69.3	25.6	22.6	21.1	19.6	19.6	22.6	15.1	15.1
85°	43.7	45.2	28.6	16.6	15.1	13.6	12.1	12.1	10.5	12.1	10.5
87.5°	10.5	9.0	9.0	9.0	7.5	7.5	6.0	6.0	6.0	6.0	7.5
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)