

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: P509292

Luminaire Tested: **VERD-CA2-70-722-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509292
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-CA2-70-722-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 980mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7798 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

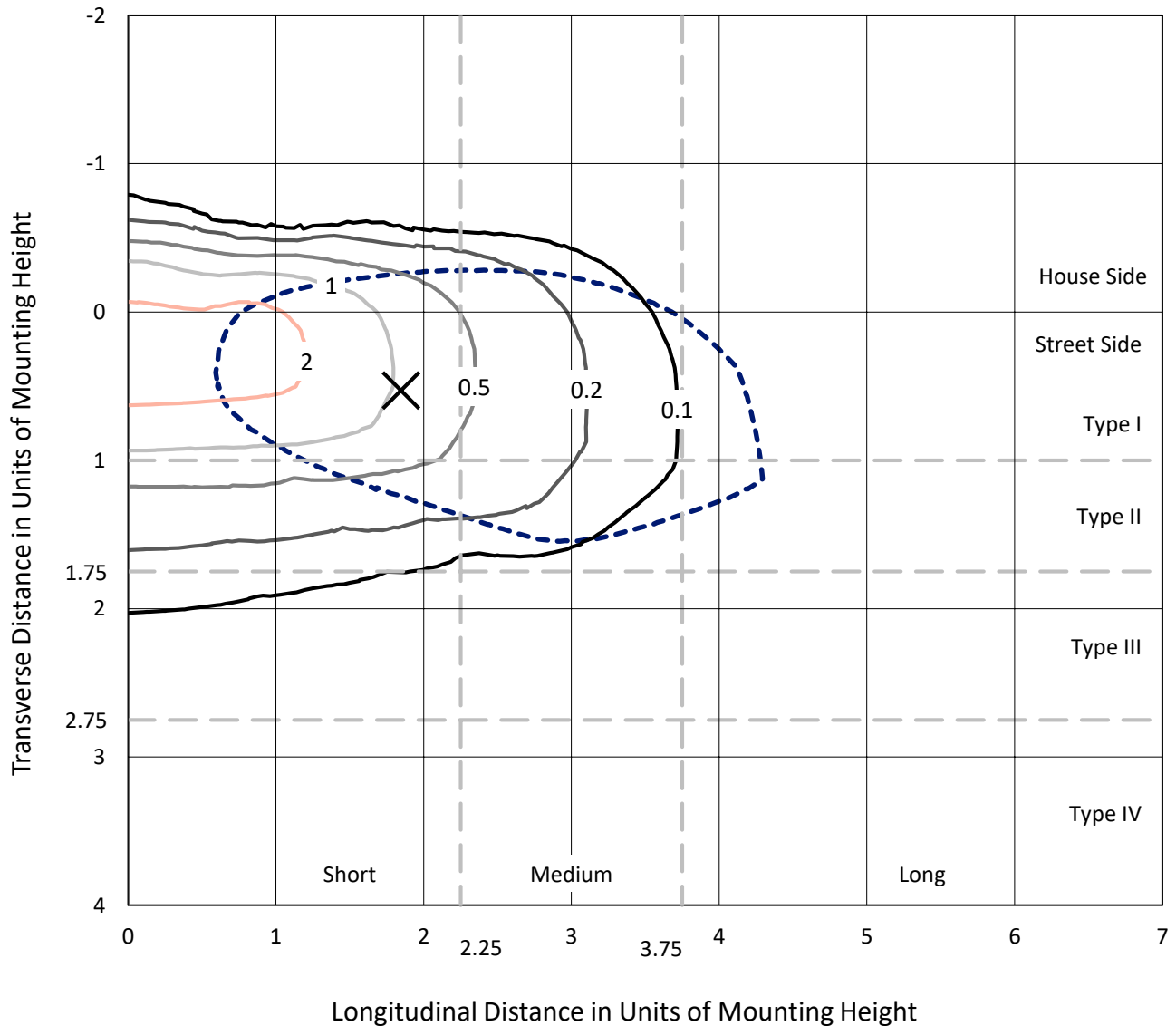
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

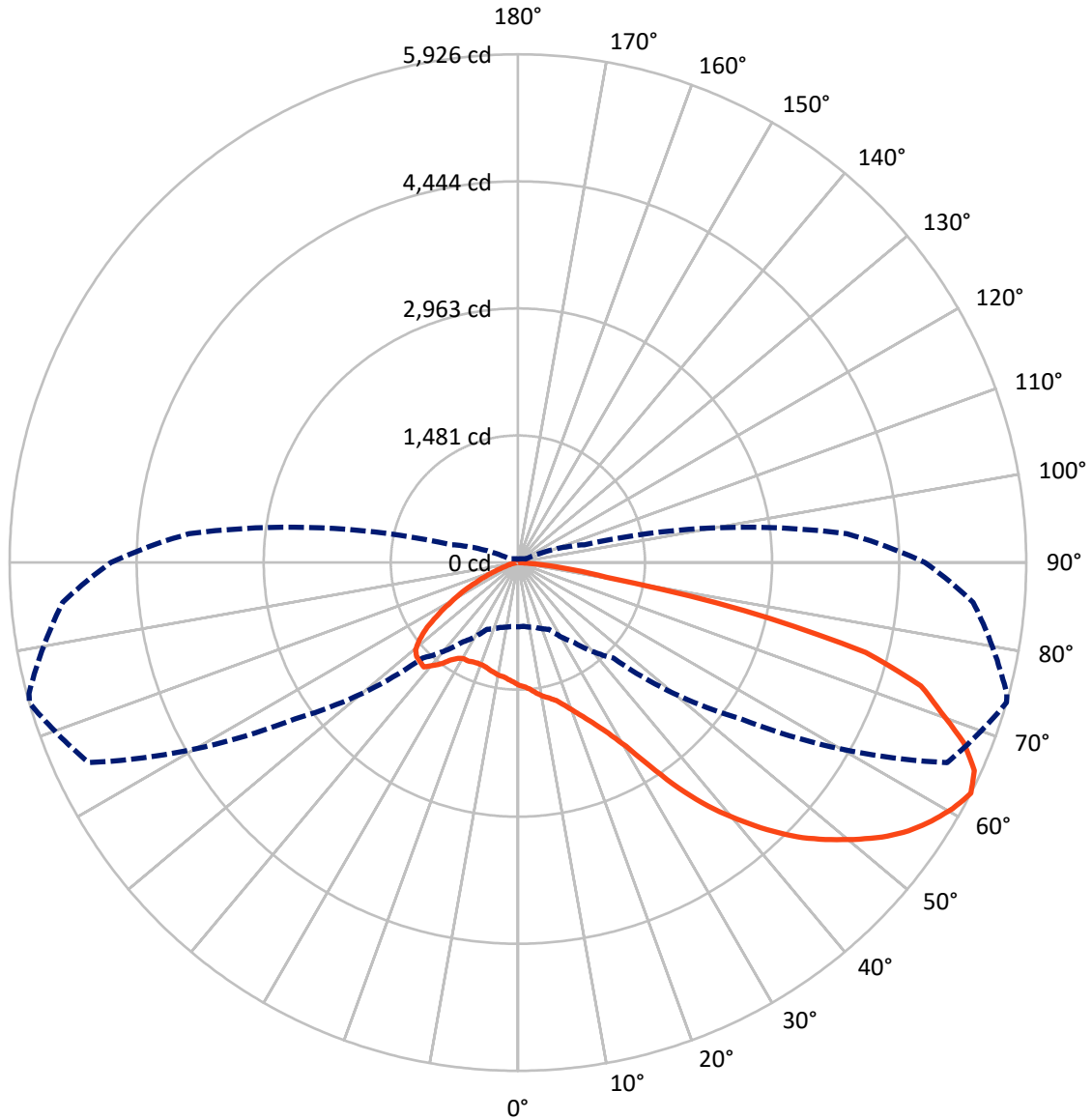
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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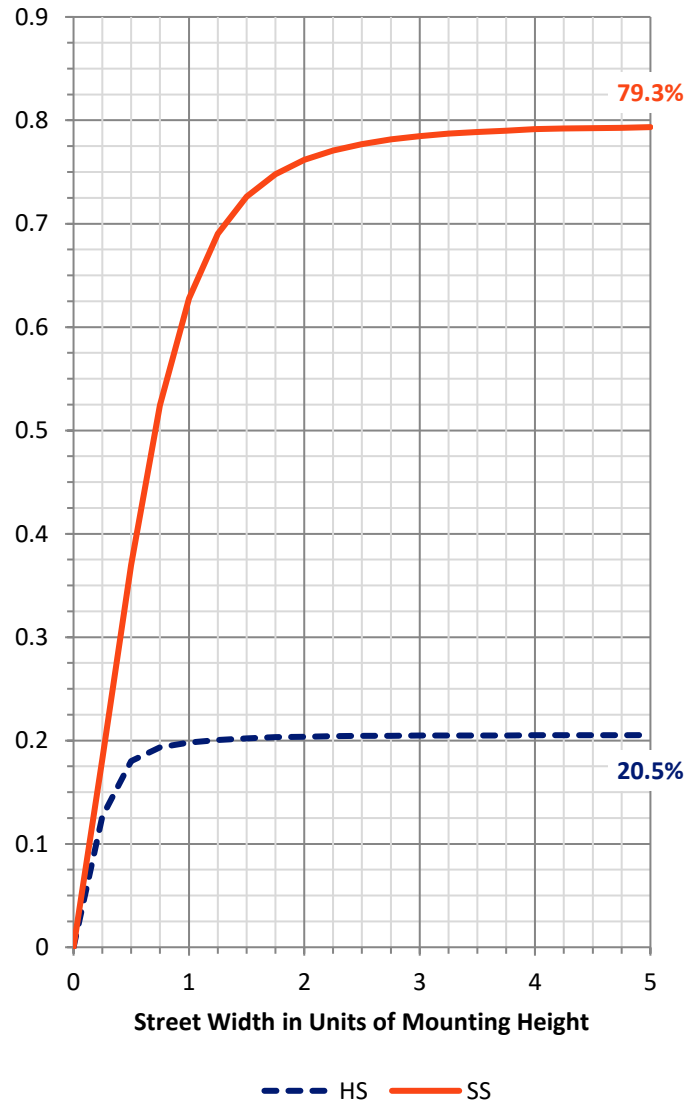
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1619.3	0.0	1619.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6178.7	0.0	6178.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	7798.0	0.0	7798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.7
10°-20°	411.6	5.3
20°-30°	694.9	8.9
30°-40°	1033.5	13.3
40°-50°	1398.8	17.9
50°-60°	1609.3	20.6
60°-70°	1553.4	19.9
70°-80°	879.5	11.3
80°-90°	80.7	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°	7798.0	100.0
0°-180°	7798.0	100.0

Coefficient of Utilization



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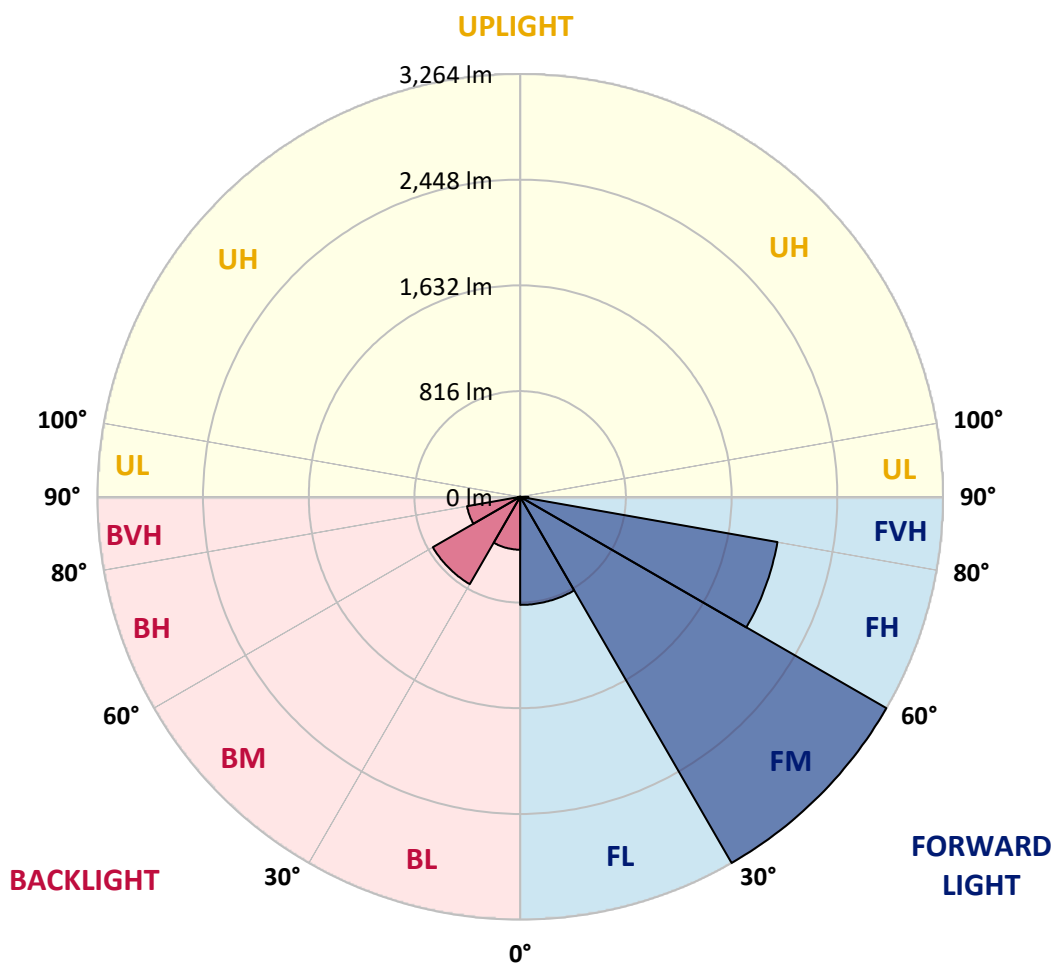
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.4	10.7			
FM (30°-60°)	3264.1	41.9			
FH (60°-80°)	2016.7	25.9			G2/5000
FVH (80°-90°)	63.6	0.8			G1/100
BL (0°-30°)	408.3	5.2	B1/500		
BM (30°-60°)	777.6	10.0	B1/1000		
BH (60°-80°)	416.3	5.3	B1/500		G1/500
BVH (80°-90°)	17.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3
2.5°	1558.5	1548.3	1539.9	1535.3	1522.3	1511.1	1488.8	1465.6	1449.8	1448.9	1434.0
5°	1623.6	1622.6	1604.1	1600.3	1582.7	1577.1	1554.8	1521.3	1482.3	1477.7	1437.7
7.5°	1709.1	1698.8	1678.4	1670.0	1649.6	1634.7	1605.0	1573.4	1534.4	1529.7	1460.0
10°	1791.8	1786.2	1774.1	1775.1	1746.2	1718.4	1673.8	1619.9	1582.7	1577.1	1491.6
12.5°	1887.5	1869.8	1849.4	1838.2	1809.4	1791.8	1749.0	1678.4	1619.9	1614.3	1528.8
15°	1953.5	1944.2	1925.6	1918.2	1890.3	1861.5	1812.2	1757.4	1669.1	1663.5	1566.9
17.5°	2024.1	2019.5	1998.1	1993.4	1966.5	1932.1	1894.0	1822.4	1745.3	1736.0	1612.4
20°	2071.5	2063.1	2060.4	2059.4	2052.0	2030.6	1982.3	1926.5	1841.0	1824.3	1671.0
22.5°	2134.7	2126.3	2130.1	2133.8	2144.0	2134.7	2103.1	2037.1	1952.6	1937.7	1763.0
25°	2141.2	2135.6	2160.7	2212.8	2233.2	2243.4	2219.3	2168.2	2086.4	2066.9	1872.6
27.5°	2158.9	2150.5	2177.5	2232.3	2324.3	2340.1	2344.7	2320.6	2251.8	2240.7	2021.3
30°	2127.3	2121.7	2163.5	2257.4	2360.5	2449.8	2484.1	2517.6	2486.0	2466.5	2228.6
32.5°	2050.1	2053.9	2108.7	2233.2	2423.7	2561.3	2650.5	2768.5	2825.2	2821.5	2595.7
35°	1937.7	1935.8	2027.8	2203.5	2429.3	2666.3	2832.6	3072.4	3231.3	3220.2	2981.3
37.5°	1842.0	1837.3	1941.4	2128.2	2434.0	2749.9	3046.4	3404.2	3605.9	3594.7	3296.4
40°	1724.9	1732.3	1825.2	2040.8	2394.9	2812.2	3232.3	3726.7	3933.0	3933.0	3622.6
42.5°	1606.8	1613.3	1705.4	1919.1	2338.2	2857.7	3407.0	4048.2	4258.3	4262.9	3846.6
45°	1503.7	1506.5	1590.1	1782.5	2236.0	2865.2	3567.8	4370.7	4563.1	4551.0	4102.1
47.5°	1322.5	1353.1	1484.2	1659.8	2096.6	2832.6	3703.4	4657.9	4825.2	4800.1	4345.6
50°	1053.9	1053.9	1235.1	1542.7	1936.8	2746.2	3810.3	4920.0	5074.2	5051.0	4558.4
52.5°	968.4	970.2	1026.0	1378.2	1775.1	2597.5	3871.7	5180.2	5318.6	5302.9	4760.1
55°	922.8	925.6	951.7	1117.1	1628.2	2369.8	3873.5	5381.8	5525.9	5490.6	4930.2
57.5°	854.1	849.4	904.3	995.3	1456.3	2076.2	3782.4	5538.0	5686.7	5659.7	5069.6
60°	805.7	798.3	835.5	917.3	1271.3	1772.3	3539.9	5651.4	5824.2	5840.0	5206.2
62.5°	749.1	746.3	781.6	858.7	1134.7	1573.4	3175.6	5519.4	5925.5	5900.4	5327.0
65°	692.4	686.8	720.2	780.7	1002.8	1410.7	2808.5	5324.2	5847.4	5869.8	5351.2
67.5°	618.0	617.1	648.7	693.3	858.7	1228.6	2276.9	5067.7	5605.8	5590.0	5131.9
70°	527.9	527.9	559.5	598.5	717.5	1048.3	1748.1	4628.1	5234.1	5326.1	4756.4
72.5°	426.6	428.4	460.0	504.6	592.0	854.1	1289.0	4025.0	4911.6	4763.8	4226.7
75°	227.7	204.5	360.6	406.1	477.7	681.2	881.9	2617.0	4188.6	4086.3	3506.4
77.5°	54.8	57.6	113.4	211.0	254.6	377.3	434.0	1211.9	2700.7	2863.3	2500.9
80°	36.2	40.0	61.3	149.6	170.1	200.7	171.9	527.9	1047.4	1116.1	1451.6
82.5°	18.6	20.4	38.1	59.5	60.4	52.0	65.1	265.8	553.9	600.4	697.9
85°	6.5	10.2	19.5	26.0	24.2	19.5	15.8	66.0	131.0	145.9	151.5
87.5°	0.0	0.0	2.8	2.8	1.9	1.9	2.8	2.8	3.7	2.8	2.8
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°	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3	1429.3
2.5°	1421.9	1411.7	1395.9	1379.1	1361.5	1346.6	1338.3	1342.9	1348.5	1330.8	1324.3
5°	1419.1	1401.5	1371.7	1336.4	1309.4	1282.5	1250.9	1243.5	1236.0	1226.7	1216.5
7.5°	1432.1	1406.1	1345.7	1313.2	1256.5	1206.3	1178.4	1158.0	1139.4	1122.7	1112.4
10°	1456.3	1408.0	1340.1	1274.1	1211.9	1150.5	1090.1	1078.0	1074.3	1050.2	1032.5
12.5°	1472.1	1412.6	1320.6	1240.7	1151.5	1085.5	1025.1	990.7	987.9	976.7	964.7
15°	1497.2	1431.2	1307.6	1198.9	1090.1	1020.4	964.7	920.1	897.7	896.8	887.5
17.5°	1542.7	1452.6	1287.1	1156.1	1040.9	962.8	882.9	866.2	829.0	807.6	802.0
20°	1589.2	1484.2	1281.6	1113.4	976.7	880.1	818.8	772.3	742.5	720.2	706.3
22.5°	1649.6	1529.7	1283.4	1088.3	924.7	817.8	737.9	669.1	614.3	587.3	574.3
25°	1736.9	1582.7	1297.4	1050.2	863.4	750.9	634.7	543.7	466.5	447.0	437.7
27.5°	1848.5	1657.0	1316.9	1011.1	806.7	660.8	510.2	408.0	343.9	329.0	319.7
30°	2019.5	1768.5	1319.7	987.0	755.6	543.7	382.0	302.0	251.9	236.1	237.9
32.5°	2341.0	2007.4	1356.8	936.8	664.5	417.3	280.7	220.3	182.2	176.6	185.9
35°	2714.6	2289.0	1428.4	910.8	560.4	302.0	200.7	161.7	137.5	145.0	148.7
37.5°	2955.3	2537.1	1542.7	851.3	438.7	222.1	140.3	126.4	121.7	126.4	134.8
40°	3236.0	2738.8	1640.3	790.9	311.3	152.4	112.5	115.2	109.7	108.7	112.5
42.5°	3463.7	2946.0	1744.4	691.4	216.5	113.4	103.2	105.0	101.3	96.7	96.7
45°	3680.2	3125.4	1743.5	557.6	143.1	100.4	94.8	98.5	97.6	91.1	90.1
47.5°	3869.8	3306.6	1744.4	405.2	108.7	92.0	88.3	92.0	92.0	86.4	85.5
50°	4104.9	3457.2	1716.5	259.3	99.4	85.5	84.6	83.6	87.4	79.9	78.1
52.5°	4249.0	3566.8	1591.0	174.7	92.0	80.9	79.0	77.1	79.0	72.5	72.5
55°	4407.0	3703.4	1427.5	138.5	87.4	75.3	74.3	72.5	72.5	65.1	66.0
57.5°	4578.9	3815.0	1207.2	121.7	83.6	71.6	69.7	66.9	63.2	57.6	56.7
60°	4703.4	3838.2	987.9	110.6	80.9	69.7	62.3	58.5	52.0	48.3	47.4
62.5°	4745.2	3850.3	801.1	99.4	76.2	64.1	55.8	49.3	41.8	39.0	39.0
65°	4710.9	3710.9	600.4	90.1	70.6	59.5	49.3	40.0	32.5	29.7	28.8
67.5°	4489.7	3454.4	436.8	80.9	62.3	53.9	42.7	32.5	26.0	23.2	23.2
70°	4087.3	3152.3	295.5	67.8	53.9	47.4	40.0	26.0	21.4	18.6	17.7
72.5°	3648.6	2672.8	188.7	54.8	41.8	37.2	28.8	22.3	17.7	13.9	13.9
75°	2885.6	2099.4	131.0	40.0	29.7	27.9	22.3	18.6	14.9	11.2	11.2
77.5°	2008.3	1364.3	103.2	30.7	20.4	18.6	16.7	13.9	12.1	9.3	8.4
80°	1164.5	820.6	62.3	20.4	13.9	12.1	11.2	11.2	9.3	6.5	6.5
82.5°	578.1	342.0	27.0	13.0	9.3	8.4	7.4	6.5	6.5	4.6	4.6
85°	113.4	58.5	10.2	6.5	4.6	4.6	3.7	3.7	2.8	1.9	1.9
87.5°	3.7	2.8	2.8	2.8	1.9	1.9	0.9	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)