

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: P509276

Luminaire Tested: **VERD-CA2-60-750-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509276
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-CA2-60-750-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 850mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8545 lumens
Efficiency: N/A
Efficacy: 134.8 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

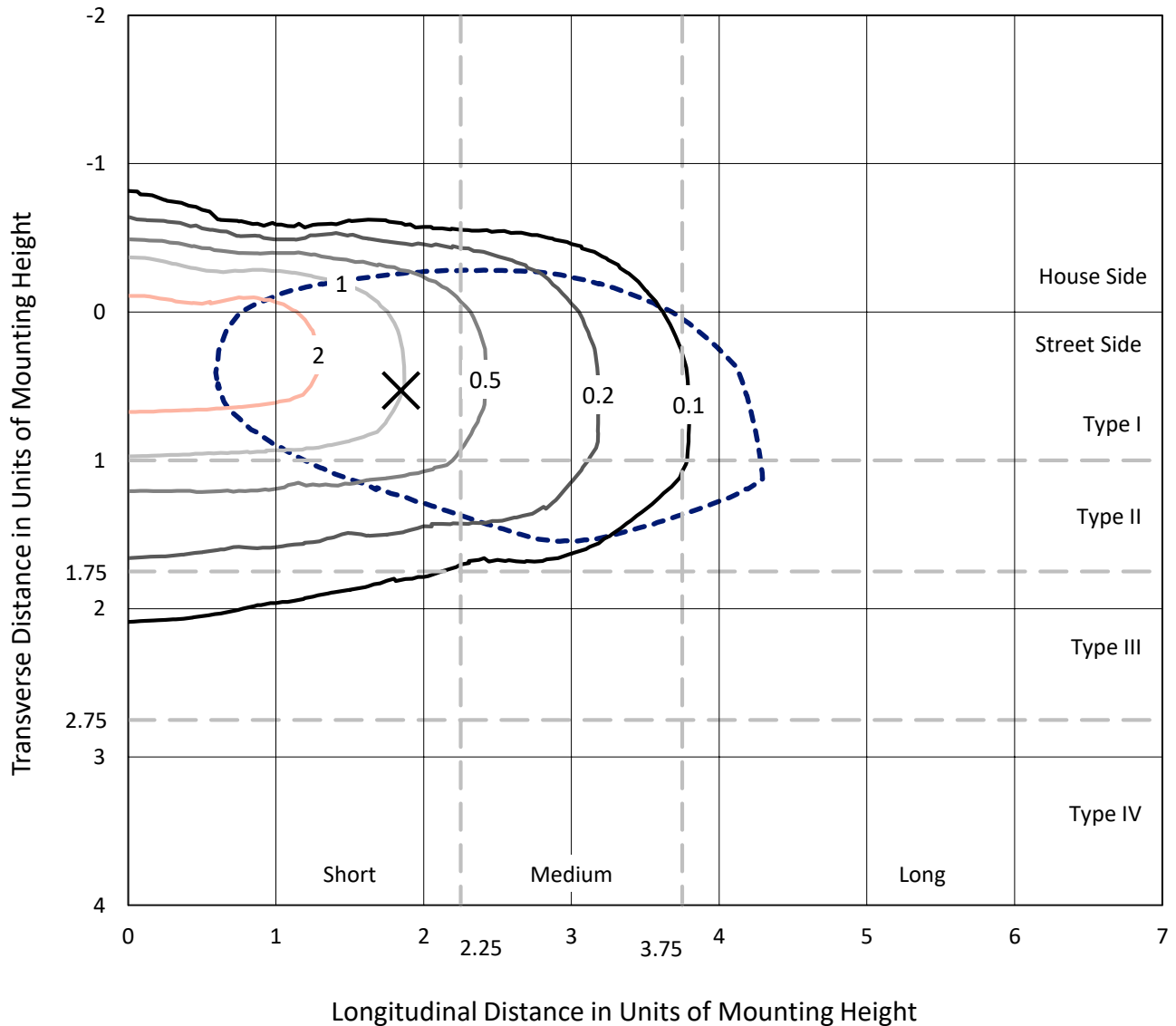
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

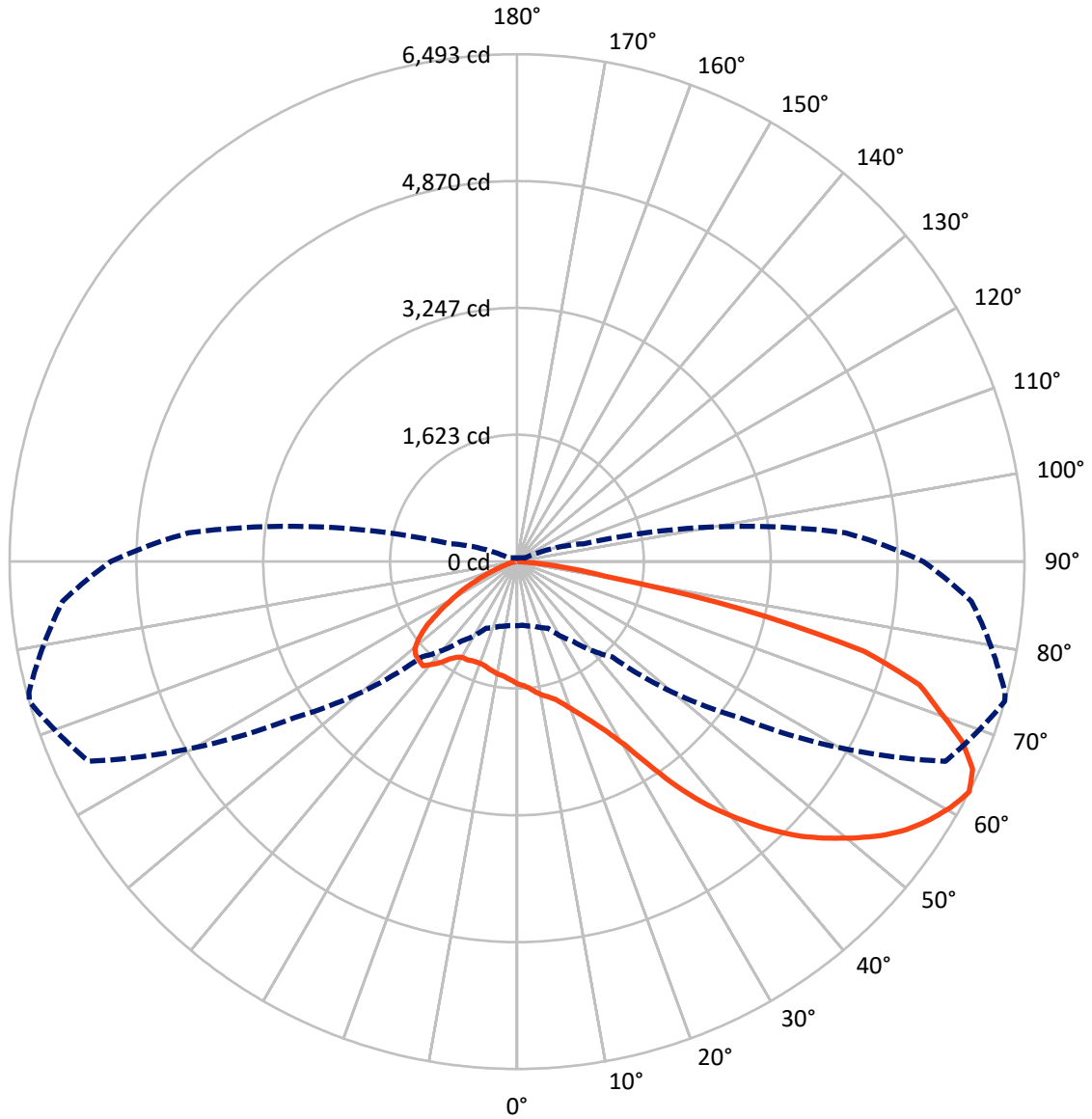
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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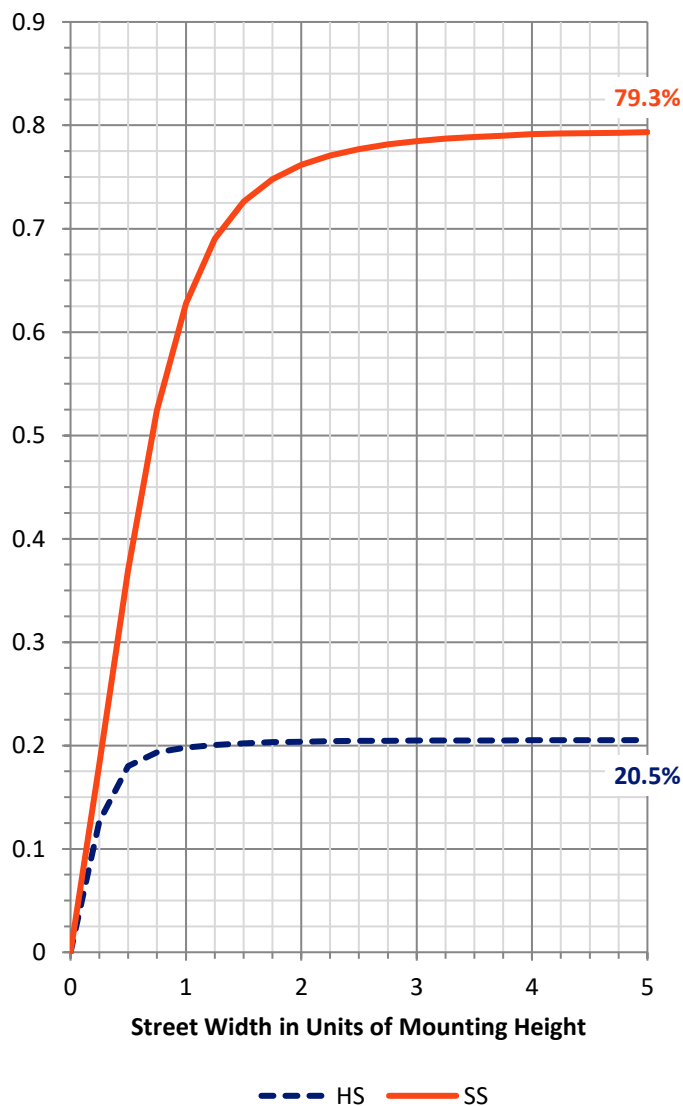
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1774.4	0.0	1774.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6770.6	0.0	6770.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	8545.0	0.0	8545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.7
10°-20°	451.0	5.3
20°-30°	761.4	8.9
30°-40°	1132.5	13.3
40°-50°	1532.8	17.9
50°-60°	1763.5	20.6
60°-70°	1702.2	19.9
70°-80°	963.8	11.3
80°-90°	88.4	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°	8545.0	100.0
0°-180°	8545.0	100.0

Coefficient of Utilization



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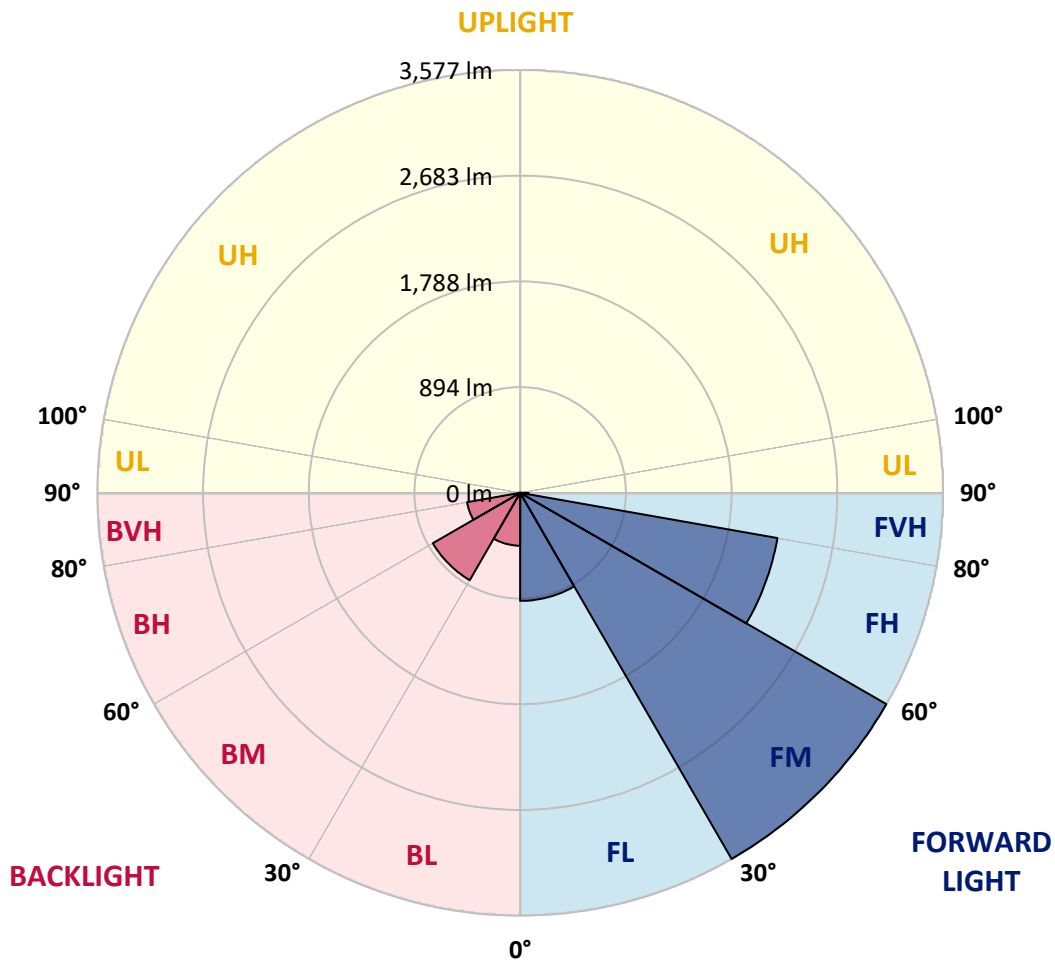
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.3	10.7			
FM (30°-60°)	3576.8	41.9			
FH (60°-80°)	2209.8	25.9			G2/5000
FVH (80°-90°)	69.7	0.8			G1/100
BL (0°-30°)	447.4	5.2	B1/500		
BM (30°-60°)	852.1	10.0	B1/1000		
BH (60°-80°)	456.2	5.3	B1/500		G1/500
BVH (80°-90°)	18.7	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°	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3
2.5°	1707.8	1696.6	1687.4	1682.4	1668.1	1655.9	1631.4	1606.0	1588.7	1587.6	1571.3
5°	1779.1	1778.1	1757.7	1753.6	1734.3	1728.2	1703.7	1667.1	1624.3	1619.2	1575.4
7.5°	1872.8	1861.6	1839.2	1830.0	1807.6	1791.3	1758.7	1724.1	1681.3	1676.2	1599.9
10°	1963.4	1957.3	1944.1	1945.1	1913.5	1883.0	1834.1	1775.0	1734.3	1728.2	1634.5
12.5°	2068.3	2049.0	2026.6	2014.3	1982.8	1963.4	1916.6	1839.2	1775.0	1768.9	1675.2
15°	2140.6	2130.4	2110.1	2101.9	2071.4	2039.8	1985.8	1925.7	1829.0	1822.9	1717.0
17.5°	2218.0	2212.9	2189.5	2184.4	2154.9	2117.2	2075.4	1997.0	1912.5	1902.3	1766.9
20°	2270.0	2260.8	2257.7	2256.7	2248.6	2225.1	2172.2	2111.1	2017.4	1999.1	1831.0
22.5°	2339.2	2330.0	2334.1	2338.2	2349.4	2339.2	2304.6	2232.3	2139.6	2123.3	1931.9
25°	2346.3	2340.2	2367.7	2424.7	2447.1	2458.3	2431.9	2375.9	2286.2	2264.9	2052.0
27.5°	2365.7	2356.5	2386.0	2446.1	2546.9	2564.3	2569.4	2542.9	2467.5	2455.3	2215.0
30°	2331.1	2324.9	2370.8	2473.6	2586.7	2684.4	2722.1	2758.8	2724.1	2702.8	2442.1
32.5°	2246.5	2250.6	2310.7	2447.1	2655.9	2806.6	2904.4	3033.7	3095.9	3091.8	2844.3
35°	2123.3	2121.3	2222.1	2414.6	2662.0	2921.7	3104.0	3366.7	3540.9	3528.7	3266.9
37.5°	2018.4	2013.3	2127.4	2332.1	2667.1	3013.4	3338.2	3730.3	3951.3	3939.1	3612.2
40°	1890.1	1898.2	2000.1	2236.3	2624.3	3081.6	3541.9	4083.7	4309.8	4309.8	3969.6
42.5°	1760.8	1767.9	1868.7	2102.9	2562.2	3131.5	3733.4	4436.0	4666.2	4671.3	4215.0
45°	1647.7	1650.8	1742.4	1953.2	2450.2	3139.6	3909.5	4789.4	5000.2	4987.0	4495.1
47.5°	1449.1	1482.7	1626.3	1818.8	2297.4	3104.0	4058.2	5104.1	5287.4	5259.9	4761.9
50°	1154.8	1154.8	1353.4	1690.5	2122.3	3009.3	4175.3	5391.3	5560.3	5534.9	4995.1
52.5°	1061.1	1063.2	1124.3	1510.2	1945.1	2846.3	4242.5	5676.4	5828.1	5810.8	5216.1
55°	1011.2	1014.3	1042.8	1224.1	1784.2	2596.8	4244.6	5897.4	6055.2	6016.5	5402.5
57.5°	935.9	930.8	990.9	1090.7	1595.8	2275.0	4144.8	6068.5	6231.4	6201.9	5555.2
60°	882.9	874.8	915.5	1005.1	1393.1	1942.0	3879.0	6192.7	6382.1	6399.4	5704.9
62.5°	820.8	817.8	856.5	941.0	1243.4	1724.1	3479.8	6048.1	6493.1	6465.6	5837.3
65°	758.7	752.6	789.2	855.4	1098.8	1545.9	3077.5	5834.3	6407.6	6432.0	5863.8
67.5°	677.2	676.2	710.8	759.7	941.0	1346.3	2495.0	5553.2	6142.8	6125.5	5623.4
70°	578.4	578.4	613.1	655.8	786.2	1148.7	1915.6	5071.5	5735.5	5836.3	5212.0
72.5°	467.4	469.5	504.1	553.0	648.7	935.9	1412.5	4410.6	5382.1	5220.2	4631.6
75°	249.5	224.0	395.1	445.0	523.4	746.5	966.4	2867.7	4589.8	4477.8	3842.3
77.5°	60.1	63.1	124.2	231.2	279.0	413.5	475.6	1328.0	2959.4	3137.6	2740.4
80°	39.7	43.8	67.2	164.0	186.4	220.0	188.4	578.4	1147.7	1223.1	1590.7
82.5°	20.4	22.4	41.8	65.2	66.2	57.0	71.3	291.3	606.9	657.9	764.8
85°	7.1	11.2	21.4	28.5	26.5	21.4	17.3	72.3	143.6	159.9	166.0
87.5°	0.0	0.0	3.1	3.1	2.0	2.0	3.1	3.1	4.1	3.1	3.1
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°	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3	1566.3
2.5°	1558.1	1546.9	1529.6	1511.3	1491.9	1475.6	1466.5	1471.5	1477.7	1458.3	1451.2
5°	1555.1	1535.7	1503.1	1464.4	1434.9	1405.4	1370.7	1362.6	1354.4	1344.3	1333.0
7.5°	1569.3	1540.8	1474.6	1439.0	1376.8	1321.8	1291.3	1268.9	1248.5	1230.2	1219.0
10°	1595.8	1542.8	1468.5	1396.2	1328.0	1260.7	1194.6	1181.3	1177.2	1150.8	1131.4
12.5°	1613.1	1547.9	1447.1	1359.5	1261.8	1189.5	1123.3	1085.6	1082.5	1070.3	1057.1
15°	1640.6	1568.3	1432.8	1313.7	1194.6	1118.2	1057.1	1008.2	983.7	982.7	972.5
17.5°	1690.5	1591.7	1410.4	1266.9	1140.6	1055.0	967.5	949.1	908.4	885.0	878.9
20°	1741.4	1626.3	1404.3	1220.0	1070.3	964.4	897.2	846.3	813.7	789.2	774.0
22.5°	1807.6	1676.2	1406.4	1192.5	1013.3	896.2	808.6	733.2	673.1	643.6	629.4
25°	1903.3	1734.3	1421.6	1150.8	946.1	822.8	695.5	595.7	511.2	489.8	479.7
27.5°	2025.5	1815.8	1443.0	1108.0	883.9	724.1	559.1	447.1	376.8	360.5	350.3
30°	2212.9	1938.0	1446.1	1081.5	827.9	595.7	418.6	331.0	276.0	258.7	260.7
32.5°	2565.3	2199.7	1486.8	1026.5	728.1	457.2	307.5	241.4	199.6	193.5	203.7
35°	2974.7	2508.3	1565.2	998.0	614.1	331.0	220.0	177.2	150.7	158.9	162.9
37.5°	3238.4	2780.2	1690.5	932.8	480.7	243.4	153.8	138.5	133.4	138.5	147.7
40°	3546.0	3001.1	1797.4	866.6	341.2	167.0	123.2	126.3	120.2	119.1	123.2
42.5°	3795.5	3228.2	1911.5	757.7	237.3	124.2	113.0	115.1	111.0	105.9	105.9
45°	4032.8	3424.8	1910.5	611.0	156.8	110.0	103.9	107.9	106.9	99.8	98.8
47.5°	4240.5	3623.4	1911.5	444.0	119.1	100.8	96.7	100.8	100.8	94.7	93.7
50°	4498.1	3788.3	1880.9	284.1	109.0	93.7	92.7	91.7	95.7	87.6	85.5
52.5°	4656.0	3908.5	1743.5	191.5	100.8	88.6	86.6	84.5	86.6	79.4	79.4
55°	4829.1	4058.2	1564.2	151.7	95.7	82.5	81.5	79.4	79.4	71.3	72.3
57.5°	5017.5	4180.4	1322.9	133.4	91.7	78.4	76.4	73.3	69.2	63.1	62.1
60°	5154.0	4205.9	1082.5	121.2	88.6	76.4	68.2	64.2	57.0	53.0	51.9
62.5°	5199.8	4219.1	877.8	109.0	83.5	70.3	61.1	54.0	45.8	42.8	42.8
65°	5162.1	4066.4	657.9	98.8	77.4	65.2	54.0	43.8	35.6	32.6	31.6
67.5°	4919.8	3785.3	478.6	88.6	68.2	59.1	46.8	35.6	28.5	25.5	25.5
70°	4478.8	3454.3	323.8	74.3	59.1	51.9	43.8	28.5	23.4	20.4	19.3
72.5°	3998.1	2928.8	206.7	60.1	45.8	40.7	31.6	24.4	19.3	15.3	15.3
75°	3162.0	2300.5	143.6	43.8	32.6	30.6	24.4	20.4	16.3	12.2	12.2
77.5°	2200.7	1495.0	113.0	33.6	22.4	20.4	18.3	15.3	13.2	10.2	9.2
80°	1276.0	899.2	68.2	22.4	15.3	13.2	12.2	12.2	10.2	7.1	7.1
82.5°	633.4	374.8	29.5	14.3	10.2	9.2	8.1	7.1	7.1	5.1	5.1
85°	124.2	64.2	11.2	7.1	5.1	5.1	4.1	4.1	3.1	2.0	2.0
87.5°	4.1	3.1	3.1	3.1	2.0	2.0	1.0	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)