

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: P509380

Luminaire Tested: **VERD-CA2-80-760-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509380
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-CA2-80-760-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1100mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10533 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

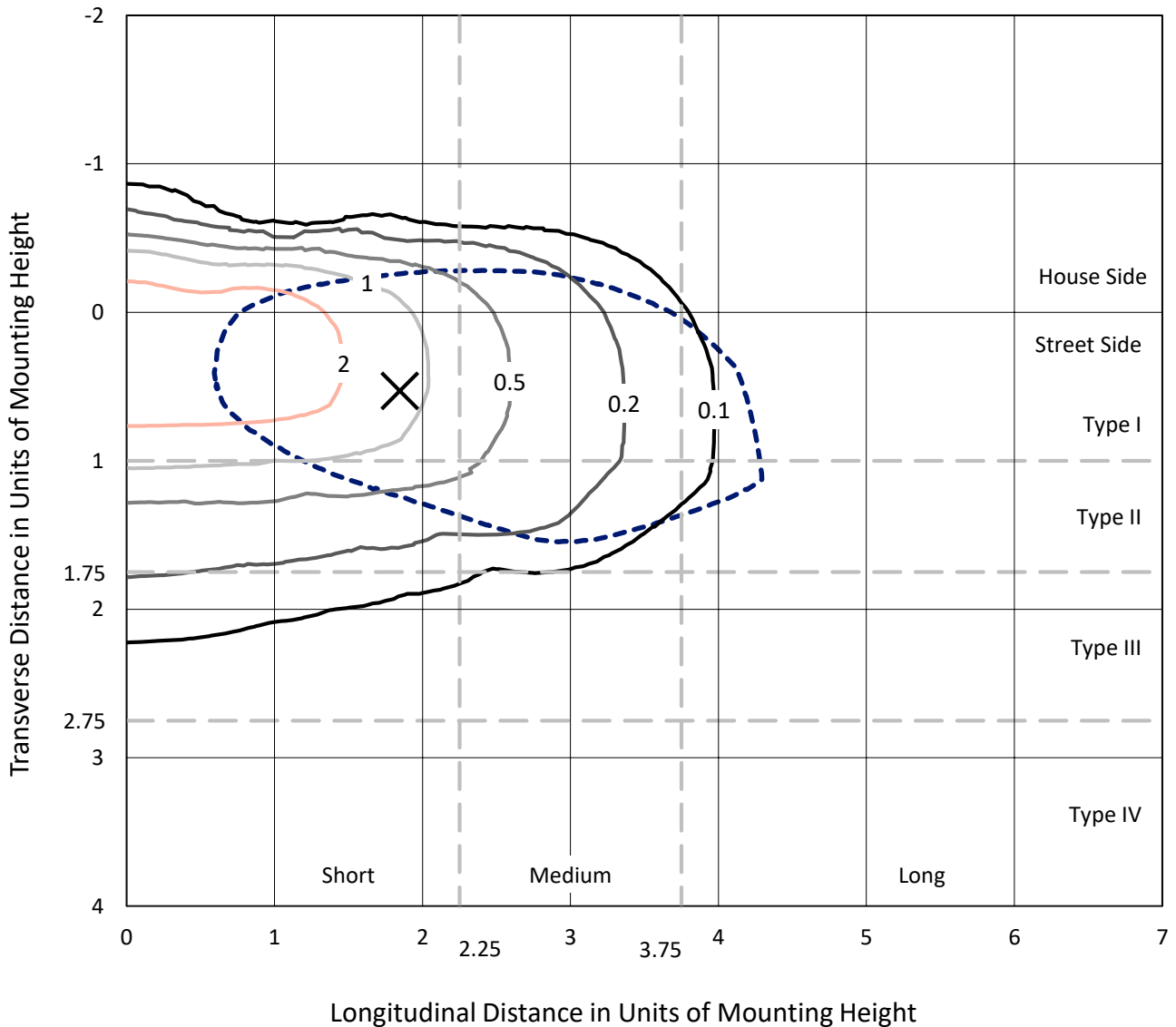
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509380
 CATALOG NUMBER: VERD-CA2-80-760-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

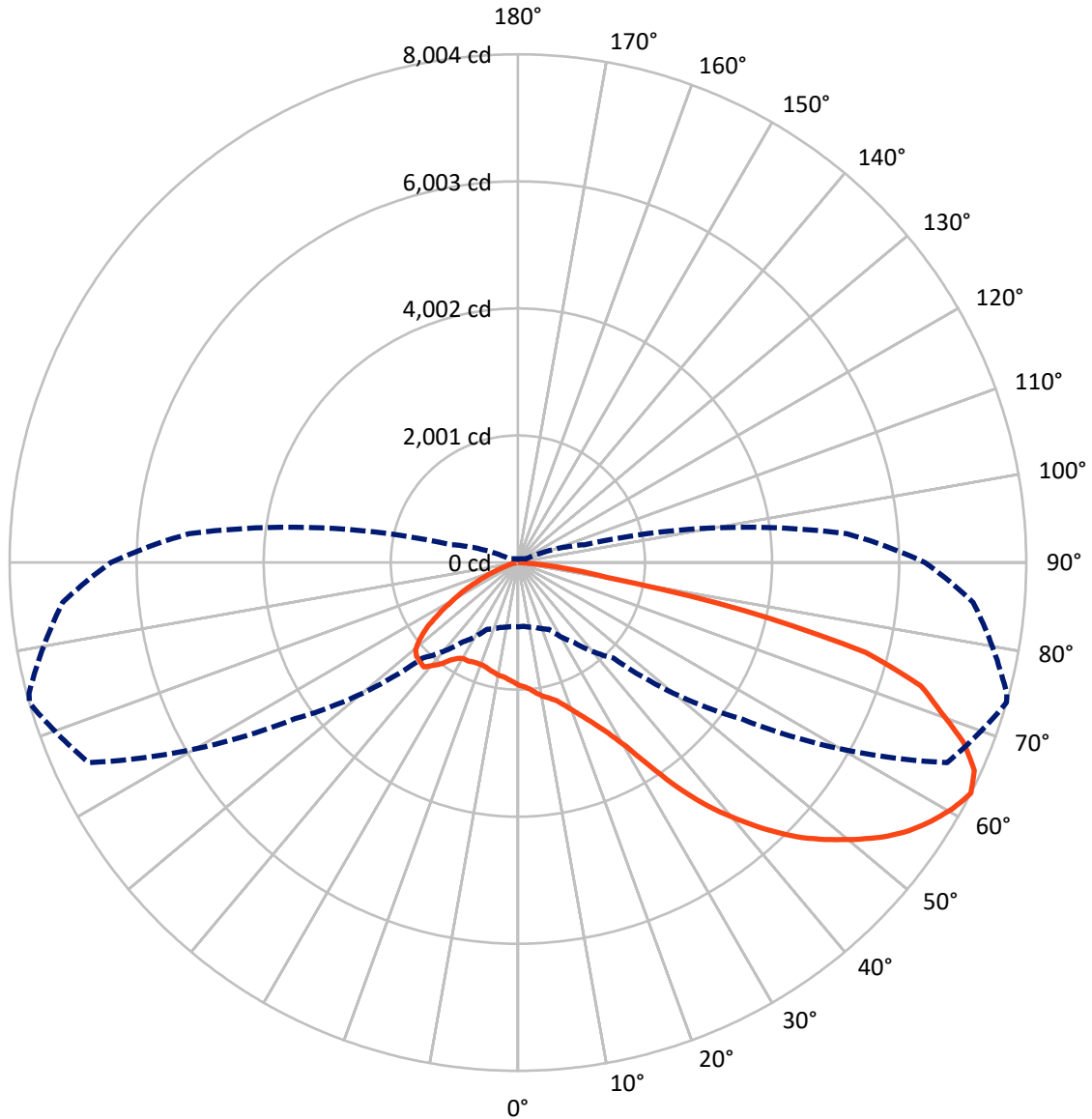
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

REPORT NUMBER: P509380
CATALOG NUMBER: VERD-CA2-80-760-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509380

CATALOG NUMBER: VERD-CA2-80-760-U-T2-HSS

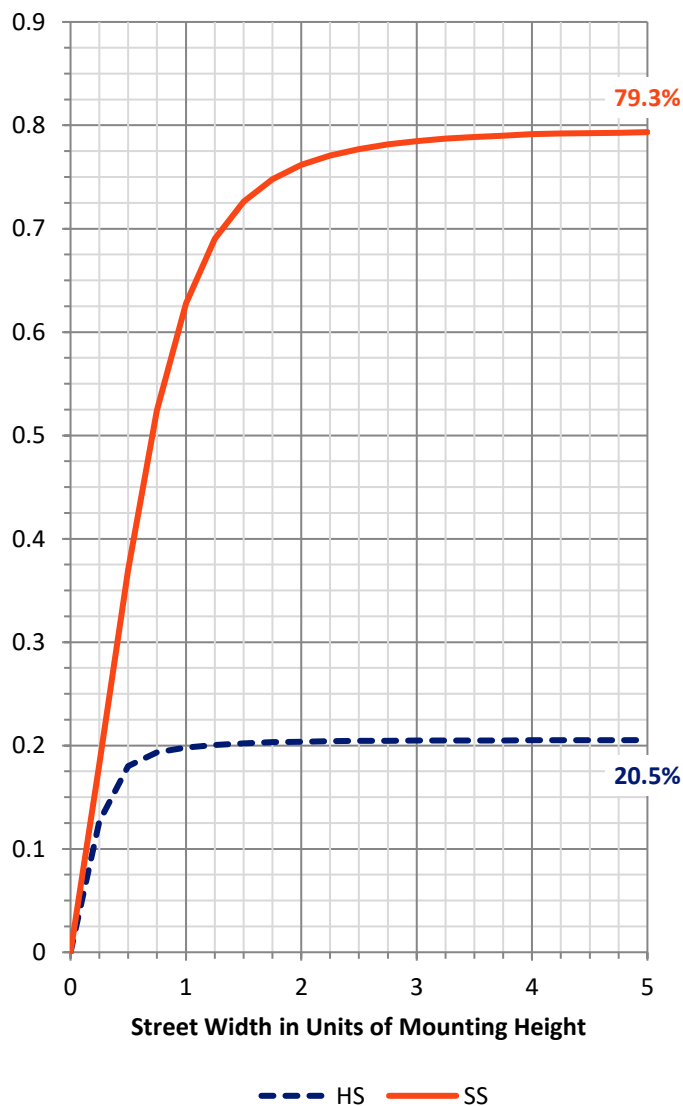
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2187.2	0.0	2187.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	8345.8	0.0	8345.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	10533.0	0.0	10533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	1.7
10°-20°	555.9	5.3
20°-30°	938.6	8.9
30°-40°	1396.0	13.3
40°-50°	1889.5	17.9
50°-60°	2173.8	20.6
60°-70°	2098.3	19.9
70°-80°	1188.0	11.3
80°-90°	109.0	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°	10533.0	100.0
0°-180°	10533.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509380

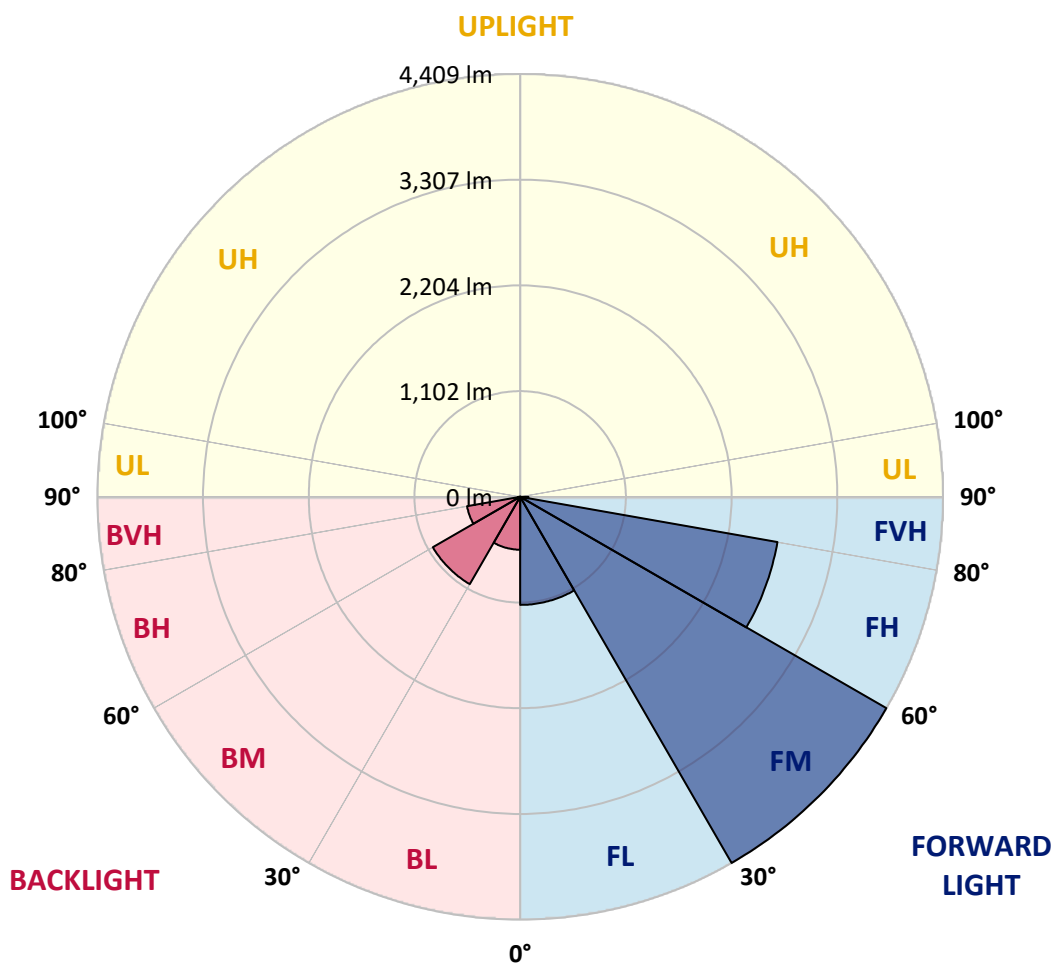
CATALOG NUMBER: VERD-CA2-80-760-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.0	10.7			
FM (30°-60°)	4408.9	41.9			
FH (60°-80°)	2724.0	25.9			G2/5000
FVH (80°-90°)	85.9	0.8			G1/100
BL (0°-30°)	551.5	5.2	B2/1000		
BM (30°-60°)	1050.3	10.0	B2/2500		
BH (60°-80°)	562.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	23.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P509380

CATALOG NUMBER: VERD-CA2-80-760-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	2105.1	2091.3	2080.0	2073.8	2056.2	2041.1	2011.0	1979.6	1958.3	1957.0	1936.9
5°	2193.0	2191.7	2166.6	2161.6	2137.8	2130.2	2100.1	2054.9	2002.2	1995.9	1941.9
7.5°	2308.5	2294.7	2267.1	2255.8	2228.2	2208.1	2167.9	2125.2	2072.5	2066.2	1972.1
10°	2420.2	2412.7	2396.4	2397.6	2358.7	2321.0	2260.8	2188.0	2137.8	2130.2	2014.8
12.5°	2549.5	2525.7	2498.0	2483.0	2444.1	2420.2	2362.5	2267.1	2188.0	2180.5	2065.0
15°	2638.6	2626.1	2601.0	2590.9	2553.3	2514.4	2447.8	2373.8	2254.5	2247.0	2116.4
17.5°	2734.0	2727.8	2698.9	2692.6	2656.2	2609.8	2558.3	2461.6	2357.4	2344.9	2177.9
20°	2798.1	2786.8	2783.0	2781.7	2771.7	2742.8	2677.5	2602.2	2486.7	2464.1	2257.0
22.5°	2883.4	2872.1	2877.1	2882.2	2896.0	2883.4	2840.7	2751.6	2637.4	2617.3	2381.3
25°	2892.2	2884.7	2918.6	2988.9	3016.5	3030.3	2997.6	2928.6	2818.1	2791.8	2529.4
27.5°	2916.1	2904.8	2941.2	3015.2	3139.5	3160.8	3167.1	3134.5	3041.6	3026.5	2730.3
30°	2873.4	2865.8	2922.3	3049.1	3188.5	3309.0	3355.4	3400.6	3357.9	3331.6	3010.2
32.5°	2769.2	2774.2	2848.3	3016.5	3273.8	3459.6	3580.1	3739.5	3816.1	3811.1	3506.0
35°	2617.3	2614.8	2739.1	2976.3	3281.3	3601.4	3826.1	4150.0	4364.7	4349.6	4027.0
37.5°	2488.0	2481.7	2622.3	2874.6	3287.6	3714.4	4114.9	4598.2	4870.6	4855.5	4452.5
40°	2329.8	2339.9	2465.4	2756.6	3234.9	3798.5	4365.9	5033.7	5312.4	5312.4	4893.1
42.5°	2170.4	2179.2	2303.5	2592.2	3158.3	3860.0	4601.9	5468.1	5751.8	5758.0	5195.7
45°	2031.1	2034.8	2147.8	2407.7	3020.2	3870.1	4819.1	5903.7	6163.5	6147.2	5540.9
47.5°	1786.3	1827.7	2004.7	2242.0	2831.9	3826.1	5002.4	6291.5	6517.5	6483.6	5869.8
50°	1423.5	1423.5	1668.3	2083.8	2616.0	3709.4	5146.7	6645.5	6853.9	6822.5	6157.2
52.5°	1308.0	1310.5	1385.8	1861.6	2397.6	3508.6	5229.6	6997.0	7184.1	7162.7	6429.6
55°	1246.5	1250.3	1285.4	1508.9	2199.3	3201.0	5232.1	7269.4	7464.0	7416.3	6659.3
57.5°	1153.6	1147.3	1221.4	1344.4	1967.1	2804.3	5109.1	7480.3	7681.2	7644.8	6847.6
60°	1088.3	1078.3	1128.5	1239.0	1717.2	2393.9	4781.4	7633.5	7866.9	7888.3	7032.2
62.5°	1011.8	1008.0	1055.7	1159.9	1532.7	2125.2	4289.3	7455.2	8003.8	7969.9	7195.4
65°	935.2	927.7	972.9	1054.4	1354.5	1905.5	3793.5	7191.6	7898.3	7928.5	7228.0
67.5°	834.8	833.5	876.2	936.5	1159.9	1659.5	3075.5	6845.1	7572.0	7550.6	6931.7
70°	713.0	713.0	755.7	808.4	969.1	1416.0	2361.2	6251.4	7069.8	7194.1	6424.6
72.5°	576.2	578.7	621.4	681.6	799.6	1153.6	1741.1	5436.7	6634.2	6434.7	5709.1
75°	307.5	276.2	487.1	548.6	645.2	920.1	1191.3	3534.9	5657.6	5519.5	4736.2
77.5°	74.1	77.8	153.1	285.0	344.0	509.7	586.2	1636.9	3647.9	3867.6	3378.0
80°	49.0	54.0	82.8	202.1	229.7	271.1	232.2	713.0	1414.7	1507.6	1960.8
82.5°	25.1	27.6	51.5	80.3	81.6	70.3	87.9	359.0	748.2	810.9	942.7
85°	8.8	13.8	26.4	35.1	32.6	26.4	21.3	89.1	177.0	197.1	204.6
87.5°	0.0	0.0	3.8	3.8	2.5	2.5	3.8	3.8	5.0	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509380

CATALOG NUMBER: VERD-CA2-80-760-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	1920.6	1906.8	1885.5	1862.9	1839.0	1818.9	1807.6	1813.9	1821.4	1797.6	1788.8
5°	1916.8	1893.0	1852.8	1805.1	1768.7	1732.3	1689.6	1679.6	1669.5	1657.0	1643.2
7.5°	1934.4	1899.3	1817.7	1773.7	1697.2	1629.4	1591.7	1564.1	1539.0	1516.4	1502.6
10°	1967.1	1901.8	1810.1	1721.0	1636.9	1554.1	1472.5	1456.1	1451.1	1418.5	1394.6
12.5°	1988.4	1908.1	1783.8	1675.8	1555.3	1466.2	1384.6	1338.1	1334.4	1319.3	1303.0
15°	2022.3	1933.2	1766.2	1619.3	1472.5	1378.3	1303.0	1242.7	1212.6	1211.4	1198.8
17.5°	2083.8	1962.0	1738.6	1561.6	1405.9	1300.5	1192.5	1169.9	1119.7	1090.9	1083.3
20°	2146.6	2004.7	1731.1	1503.8	1319.3	1188.8	1105.9	1043.2	1003.0	972.9	954.0
22.5°	2228.2	2066.2	1733.6	1470.0	1249.0	1104.7	996.7	903.8	829.8	793.3	775.8
25°	2346.1	2137.8	1752.4	1418.5	1166.2	1014.3	857.4	734.3	630.2	603.8	591.2
27.5°	2496.8	2238.2	1778.8	1365.8	1089.6	892.5	689.2	551.1	464.5	444.4	431.8
30°	2727.8	2388.8	1782.5	1333.1	1020.6	734.3	515.9	408.0	340.2	318.8	321.4
32.5°	3162.1	2711.4	1832.7	1265.3	897.5	563.6	379.1	297.5	246.0	238.5	251.1
35°	3666.7	3091.8	1929.4	1230.2	756.9	408.0	271.1	218.4	185.8	195.8	200.8
37.5°	3991.8	3427.0	2083.8	1149.9	592.5	300.0	189.5	170.7	164.4	170.7	182.0
40°	4370.9	3699.4	2215.6	1068.3	420.5	205.9	151.9	155.7	148.1	146.9	151.9
42.5°	4678.5	3979.3	2356.2	933.9	292.5	153.1	139.3	141.8	136.8	130.6	130.6
45°	4971.0	4221.6	2354.9	753.2	193.3	135.6	128.0	133.1	131.8	123.0	121.8
47.5°	5227.1	4466.3	2356.2	547.3	146.9	124.3	119.3	124.3	124.3	116.7	115.5
50°	5544.6	4669.7	2318.5	350.2	134.3	115.5	114.2	113.0	118.0	108.0	105.4
52.5°	5739.2	4817.8	2149.1	236.0	124.3	109.2	106.7	104.2	106.7	97.9	97.9
55°	5952.6	5002.4	1928.1	187.0	118.0	101.7	100.4	97.9	97.9	87.9	89.1
57.5°	6184.8	5153.0	1630.6	164.4	113.0	96.7	94.1	90.4	85.4	77.8	76.6
60°	6353.1	5184.4	1334.4	149.4	109.2	94.1	84.1	79.1	70.3	65.3	64.0
62.5°	6409.5	5200.7	1082.1	134.3	102.9	86.6	75.3	66.5	56.5	52.7	52.7
65°	6363.1	5012.4	810.9	121.8	95.4	80.3	66.5	54.0	43.9	40.2	38.9
67.5°	6064.3	4665.9	590.0	109.2	84.1	72.8	57.7	43.9	35.1	31.4	31.4
70°	5520.8	4258.0	399.2	91.6	72.8	64.0	54.0	35.1	28.9	25.1	23.9
72.5°	4928.3	3610.2	254.8	74.1	56.5	50.2	38.9	30.1	23.9	18.8	18.8
75°	3897.7	2835.7	177.0	54.0	40.2	37.7	30.1	25.1	20.1	15.1	15.1
77.5°	2712.7	1842.8	139.3	41.4	27.6	25.1	22.6	18.8	16.3	12.6	11.3
80°	1572.9	1108.4	84.1	27.6	18.8	16.3	15.1	15.1	12.6	8.8	8.8
82.5°	780.8	461.9	36.4	17.6	12.6	11.3	10.0	8.8	8.8	6.3	6.3
85°	153.1	79.1	13.8	8.8	6.3	6.3	5.0	5.0	3.8	2.5	2.5
87.5°	5.0	3.8	3.8	3.8	2.5	2.5	1.3	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)