

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: P509832

Luminaire Tested: **VERD-M-CA3-150-727-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-727-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 940mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16853 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

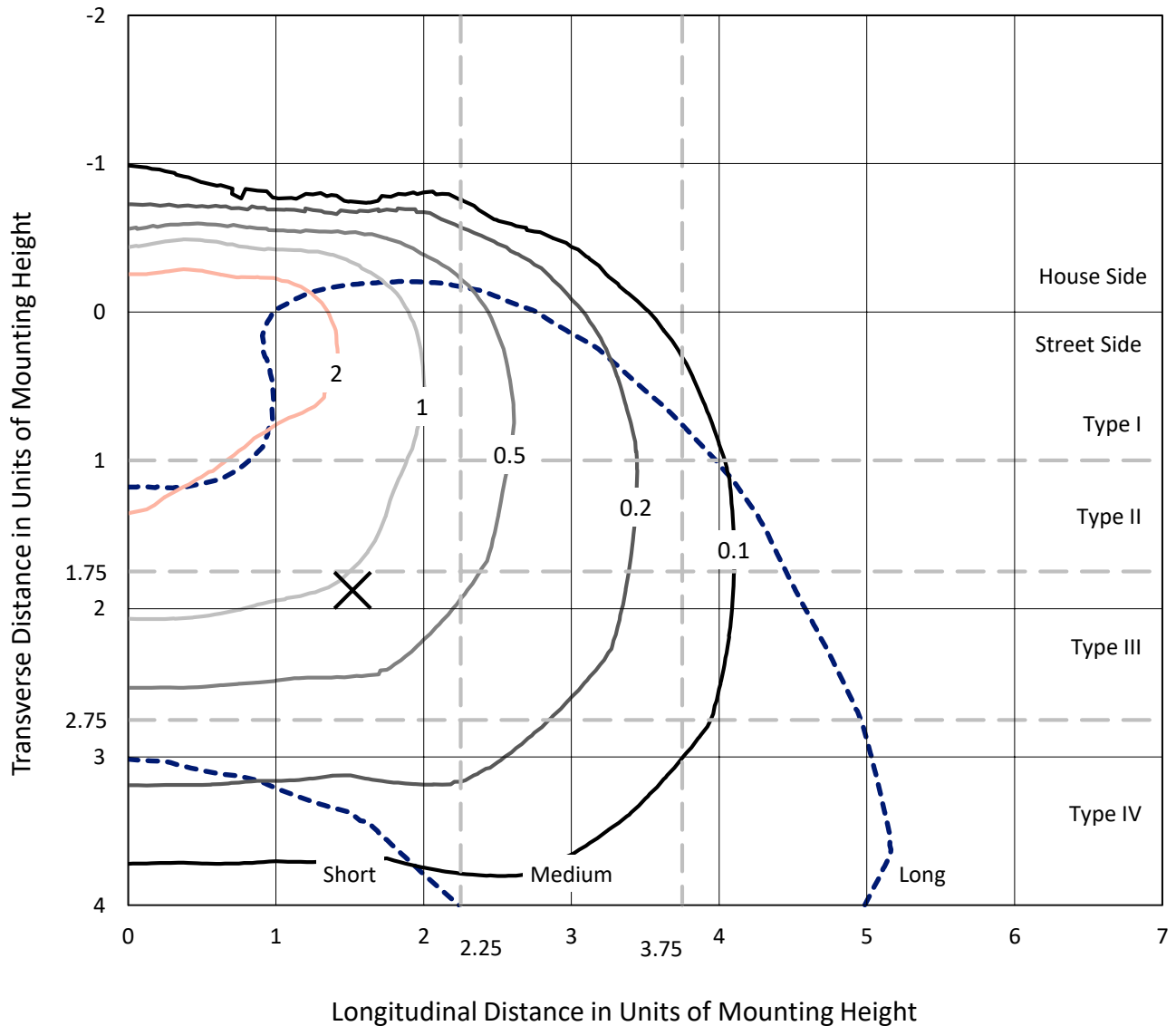
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509832
 CATALOG NUMBER: VERD-M-CA3-150-727-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

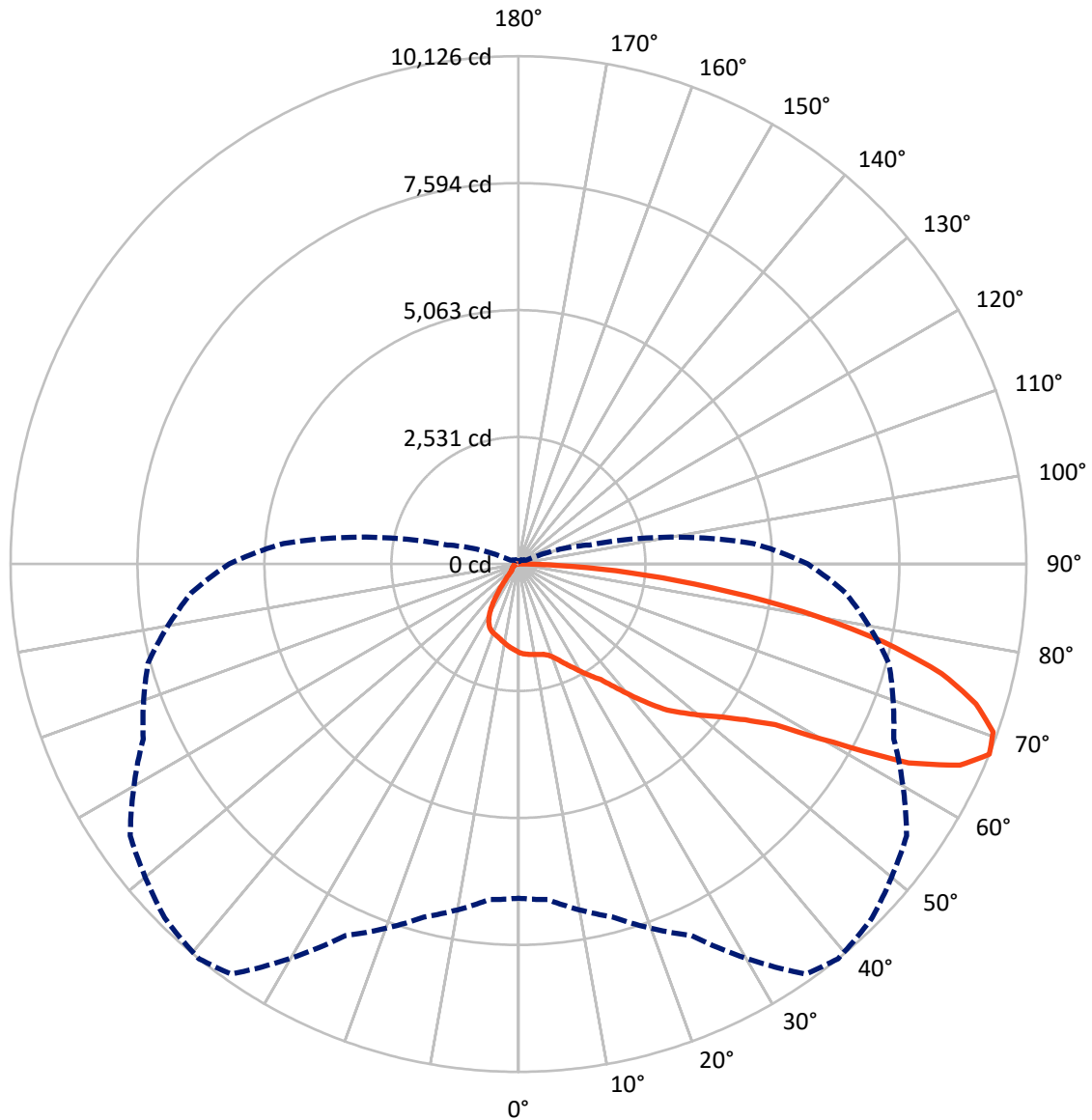
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P509832
CATALOG NUMBER: VERD-M-CA3-150-727-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509832

CATALOG NUMBER: VERD-M-CA3-150-727-U-T4-HSS

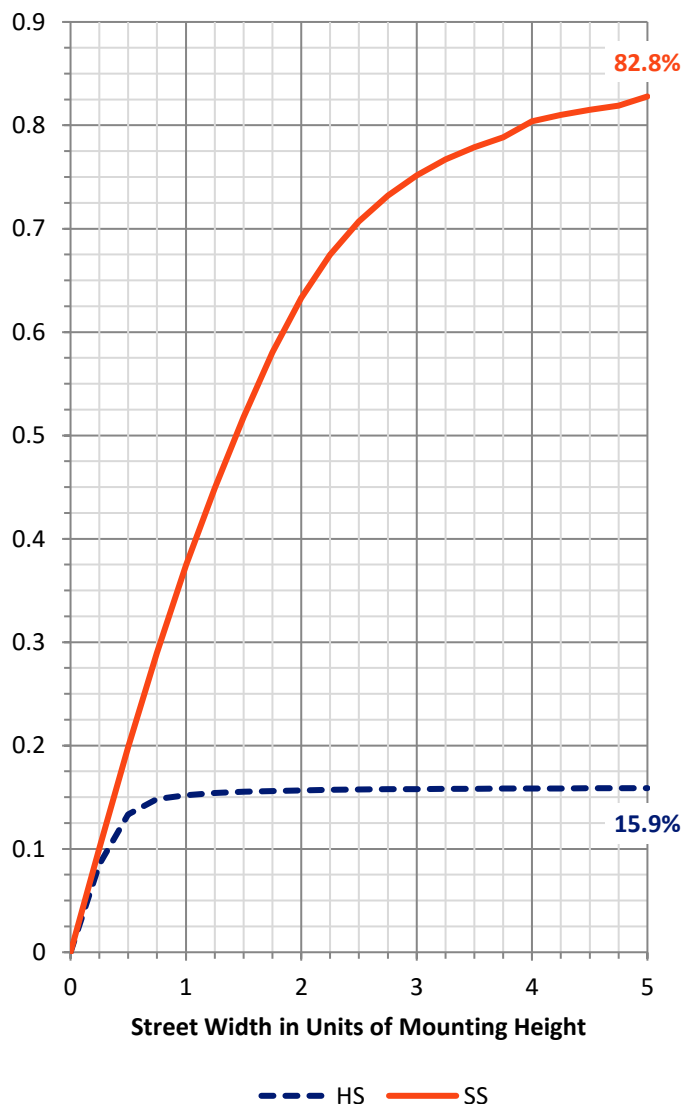
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2706.2	0.0	2706.2
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	14146.8	0.0	14146.8
	% Fixture	83.9	0.0	83.9
Total	Lumens	16853.0	0.0	16853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.0
10°-20°	495.8	2.9
20°-30°	878.5	5.2
30°-40°	1407.0	8.3
40°-50°	2257.2	13.4
50°-60°	3299.3	19.6
60°-70°	4396.5	26.1
70°-80°	3299.2	19.6
80°-90°	652.8	3.9
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°	16853.0	100.0
0°-180°	16853.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509832

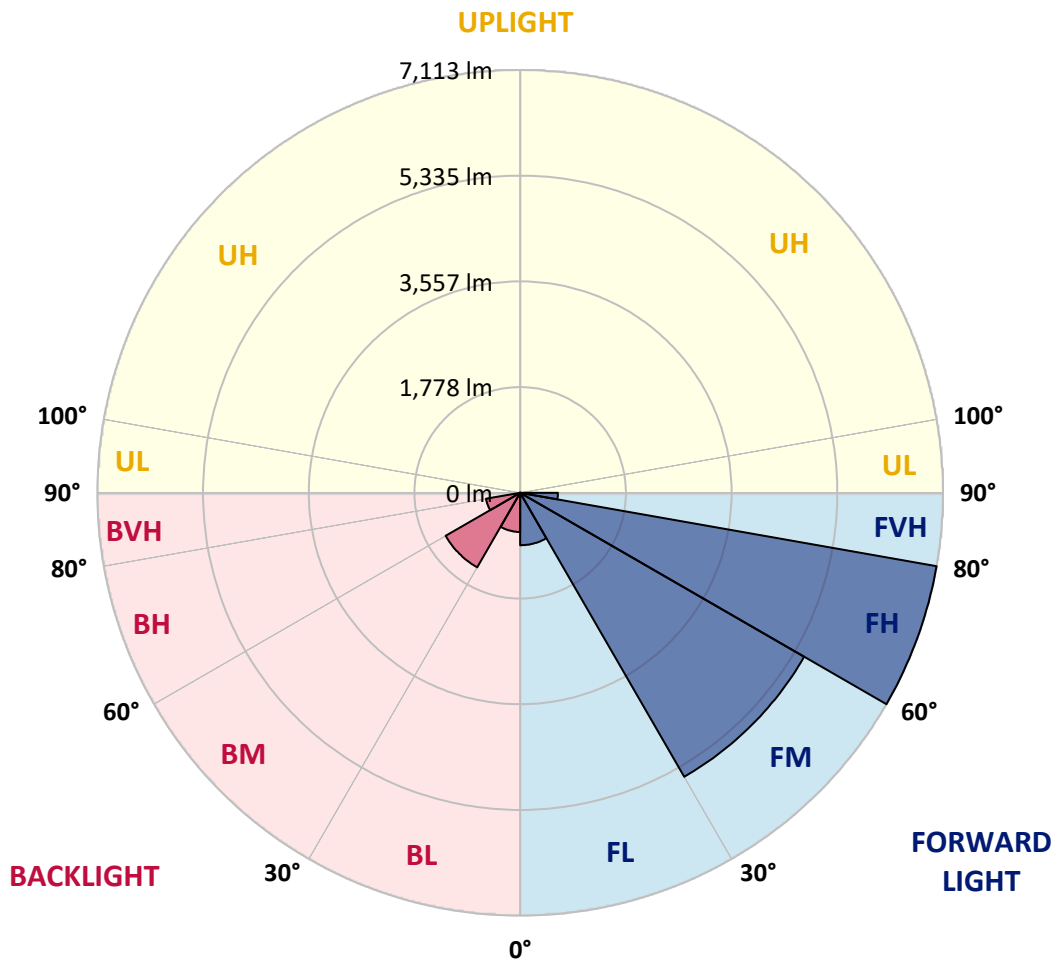
CATALOG NUMBER: VERD-M-CA3-150-727-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.9	5.2			
FM (30°-60°)	5516.1	32.7			
FH (60°-80°)	7113.1	42.2			G3/7500
FVH (80°-90°)	635.7	3.8			G4/750
BL (0°-30°)	659.0	3.9	B2/1000		
BM (30°-60°)	1447.4	8.6	B2/2500		
BH (60°-80°)	582.7	3.5	B2/1000		G2/1000
BVH (80°-90°)	17.1	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-G4

Type IV Short





REPORT NUMBER: P509832

CATALOG NUMBER: VERD-M-CA3-150-727-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1766.4	1790.1	1790.1	1783.3	1787.6	1790.9	1765.5	1772.3	1769.8	1768.9	1774.0
5°	1779.9	1806.2	1804.5	1796.0	1799.4	1806.2	1782.5	1792.6	1789.2	1780.8	1782.5
7.5°	1779.9	1801.9	1807.0	1797.7	1813.8	1822.3	1796.9	1806.2	1810.4	1804.5	1798.6
10°	1773.2	1792.6	1799.4	1797.7	1818.9	1832.4	1807.9	1834.1	1837.5	1837.5	1828.2
12.5°	1770.6	1792.6	1801.9	1809.6	1834.1	1848.5	1834.1	1859.5	1876.5	1875.6	1869.7
15°	1772.3	1796.9	1811.3	1824.0	1850.2	1868.0	1862.1	1901.0	1921.3	1927.3	1927.3
17.5°	1814.6	1844.3	1851.1	1864.6	1882.4	1909.5	1901.9	1951.8	1984.0	1994.2	2008.6
20°	1933.2	1956.1	1964.5	1957.8	1965.4	1982.3	1967.1	2015.3	2063.6	2090.7	2114.4
22.5°	2084.8	2101.7	2094.1	2087.3	2083.1	2087.3	2068.7	2100.9	2155.1	2194.0	2234.7
25°	2199.9	2237.2	2231.3	2212.6	2206.7	2211.8	2188.1	2227.9	2277.8	2318.5	2379.5
27.5°	2339.7	2362.5	2346.4	2339.7	2343.9	2343.0	2328.6	2366.7	2412.5	2463.3	2553.0
30°	2491.2	2510.7	2494.6	2487.8	2495.5	2500.5	2484.5	2551.3	2599.6	2654.7	2770.7
32.5°	2740.2	2786.8	2742.7	2654.7	2656.3	2664.0	2665.7	2755.4	2843.5	2886.7	3039.9
35°	3095.0	3132.2	3073.8	2967.1	2834.2	2829.1	2842.6	2976.4	3153.4	3349.9	3529.4
37.5°	3426.1	3480.3	3427.8	3303.3	3141.6	3102.6	3032.3	3191.5	3470.1	3892.6	4116.2
40°	3823.2	3863.9	3759.7	3651.3	3489.6	3434.5	3321.9	3423.5	3805.4	4459.1	4613.3
42.5°	4142.4	4167.0	4080.6	3967.2	3826.6	3785.1	3669.1	3678.4	4163.6	4955.4	5054.4
45°	4438.0	4464.2	4393.1	4296.6	4207.6	4157.7	4073.0	4118.7	4583.6	5478.7	5418.5
47.5°	4662.4	4688.6	4631.9	4563.3	4471.0	4437.1	4438.8	4603.1	5097.6	5897.0	5745.4
50°	5029.9	5019.7	4871.5	4797.0	4725.0	4742.8	4761.4	4995.2	5615.8	6256.0	6047.7
52.5°	5670.9	5620.9	5315.2	5120.5	5031.6	5062.0	5092.5	5403.3	6204.4	6583.7	6279.7
55°	6395.7	6344.9	6085.0	5668.3	5432.9	5482.1	5455.8	5807.2	6698.9	6898.7	6471.1
57.5°	6934.3	7018.1	6919.0	6692.1	6102.7	6038.4	5980.0	6215.4	7098.6	7213.7	6654.8
60°	7402.5	7519.4	7696.4	7634.6	7383.9	7216.3	6680.2	6692.1	7483.0	7432.2	6727.7
62.5°	7859.8	7928.4	8231.5	8298.4	8609.2	8729.5	8185.0	7308.6	7854.7	7583.8	6776.8
65°	7402.5	7490.6	8018.2	8505.1	9509.3	9670.2	9478.9	8424.6	8128.2	7673.5	6720.0
67.5°	6663.3	6716.7	7286.5	8172.3	9980.1	10125.8	9976.8	9449.2	8256.1	7646.4	6543.9
70°	5697.1	5781.0	6340.7	7527.9	9963.2	10041.1	9911.6	9572.8	8207.8	7490.6	6099.4
72.5°	4711.5	4758.9	5233.1	6417.7	9476.3	9541.5	9472.9	9383.2	8045.3	7056.2	5245.0
75°	3541.2	3551.4	4037.4	5068.0	8378.9	8719.3	8803.1	9056.3	7422.9	6048.5	3879.1
77.5°	2374.4	2475.1	2941.7	3873.2	6878.4	7422.9	7820.0	8004.6	6201.8	4514.2	2062.8
80°	1274.4	1299.8	1802.8	2748.6	5227.2	5747.9	6124.8	6128.1	4337.2	2236.3	460.6
82.5°	590.2	565.6	907.7	1739.3	3620.8	3852.8	4105.2	3438.8	1736.7	381.9	117.7
85°	261.7	276.1	410.7	847.6	2009.4	2242.3	2210.1	1522.5	304.8	103.3	72.0
87.5°	97.4	102.5	159.2	342.1	717.2	782.4	703.7	293.0	39.8	36.4	22.0
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: P509832
 CATALOG NUMBER: VERD-M-CA3-150-727-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1768.1	1768.1	1766.4	1743.5	1738.4	1727.4	1718.1	1724.9	1717.3	1722.3	1717.3
5°	1775.7	1771.5	1761.3	1734.2	1721.5	1696.9	1678.3	1682.6	1672.4	1672.4	1671.5
7.5°	1793.5	1785.0	1767.2	1724.0	1700.3	1664.8	1636.0	1626.7	1616.5	1604.6	1603.0
10°	1822.3	1810.4	1786.7	1727.4	1681.7	1634.3	1584.3	1564.8	1539.4	1520.8	1517.4
12.5°	1862.1	1844.3	1812.1	1740.1	1680.0	1604.6	1537.8	1499.6	1469.2	1442.1	1436.1
15°	1919.6	1901.9	1863.8	1765.5	1680.9	1576.7	1488.6	1425.1	1372.6	1347.2	1348.1
17.5°	2003.5	1990.8	1932.4	1818.9	1696.9	1562.3	1448.0	1347.2	1265.9	1223.6	1217.7
20°	2111.0	2102.6	2031.4	1889.2	1734.2	1564.8	1404.0	1264.2	1144.8	1052.5	1032.2
22.5°	2236.3	2223.6	2136.4	1950.1	1763.0	1558.1	1355.7	1172.8	993.3	873.0	849.3
25°	2376.1	2369.3	2233.0	2003.5	1766.4	1529.3	1286.3	1054.2	829.0	700.3	680.0
27.5°	2554.7	2514.9	2320.2	2032.3	1758.8	1472.5	1187.2	891.7	658.8	569.9	547.9
30°	2750.3	2669.9	2404.9	2054.3	1721.5	1381.9	1045.8	703.7	490.3	411.5	400.5
32.5°	2967.1	2846.9	2484.5	2052.6	1655.5	1242.2	862.0	488.6	331.1	298.9	287.9
35°	3359.2	3155.1	2580.1	2024.7	1544.5	1076.3	608.8	318.4	245.6	226.1	223.5
37.5°	3903.7	3557.3	2708.8	1971.3	1401.4	883.2	397.1	217.6	210.0	210.8	210.0
40°	4349.9	4006.1	2887.5	1890.9	1221.1	630.9	237.9	193.9	198.1	200.7	201.5
42.5°	4786.8	4371.9	3108.5	1790.1	1032.2	409.8	193.1	185.4	182.1	186.3	188.0
45°	5138.3	4691.2	3316.8	1672.4	811.2	242.2	187.1	171.9	166.0	167.7	170.2
47.5°	5419.4	4945.2	3442.2	1535.2	592.7	182.9	182.1	160.0	151.6	149.9	149.0
50°	5684.4	5162.8	3522.6	1369.2	377.7	176.1	168.5	146.5	136.3	134.6	134.6
52.5°	5864.8	5305.1	3549.7	1172.8	225.2	171.9	159.2	135.5	121.9	124.5	126.2
55°	6040.9	5449.0	3493.8	917.1	172.7	160.9	149.0	121.9	110.9	121.1	124.5
57.5°	6124.8	5470.2	3367.6	637.6	167.7	145.6	134.6	109.2	100.8	106.7	106.7
60°	6192.5	5455.8	3191.5	403.9	163.4	135.5	122.8	99.1	88.9	85.5	83.0
62.5°	6147.6	5398.2	2837.6	263.3	151.6	123.6	111.8	91.5	77.1	67.7	66.9
65°	6051.9	5195.0	2265.1	207.5	140.6	117.7	101.6	82.1	67.7	56.7	55.9
67.5°	5770.0	4700.5	1465.8	171.9	134.6	113.5	94.0	76.2	60.1	49.1	48.3
70°	5094.2	3797.0	449.6	154.1	139.7	109.2	92.3	69.4	53.3	43.2	41.5
72.5°	4028.1	2537.0	166.8	127.9	120.2	105.0	89.8	62.7	45.7	36.4	34.7
75°	2594.5	829.0	141.4	99.1	102.5	99.9	83.0	57.6	39.0	29.6	28.8
77.5°	735.0	173.6	128.7	72.8	90.6	96.5	72.8	48.3	34.7	25.4	24.6
80°	154.1	123.6	117.7	51.7	67.7	62.7	49.1	37.3	33.0	22.0	22.0
82.5°	100.8	98.2	100.8	35.6	44.9	45.7	39.0	32.2	28.8	20.3	20.3
85°	71.1	89.8	48.3	25.4	21.2	19.5	22.9	27.9	25.4	16.9	16.9
87.5°	24.6	14.4	10.2	10.2	9.3	9.3	11.0	12.7	13.5	13.5	12.7
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)