

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: P553596

Luminaire Tested: **VERD-G-CA2-160-722-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-722-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1460mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16518 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

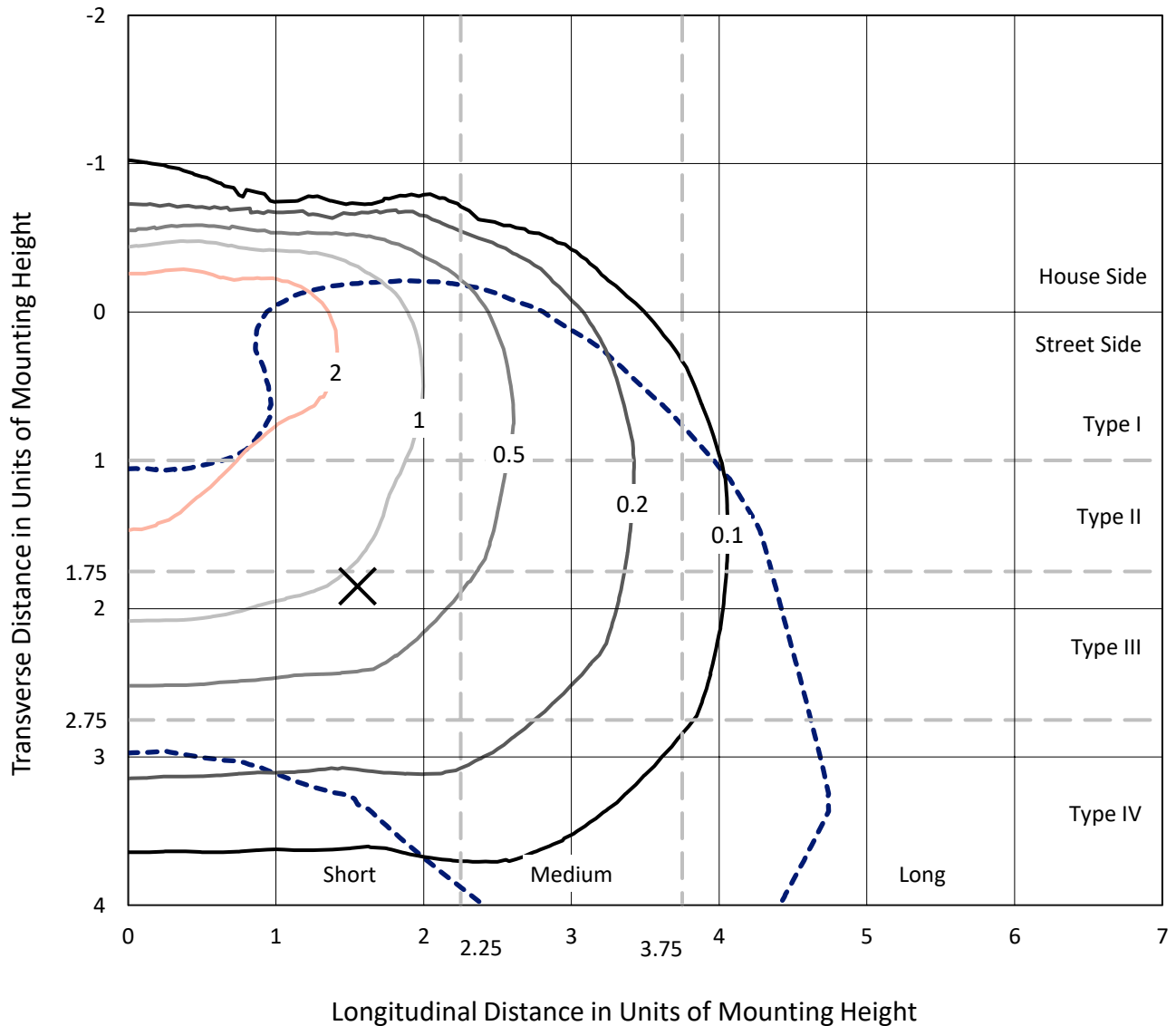
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

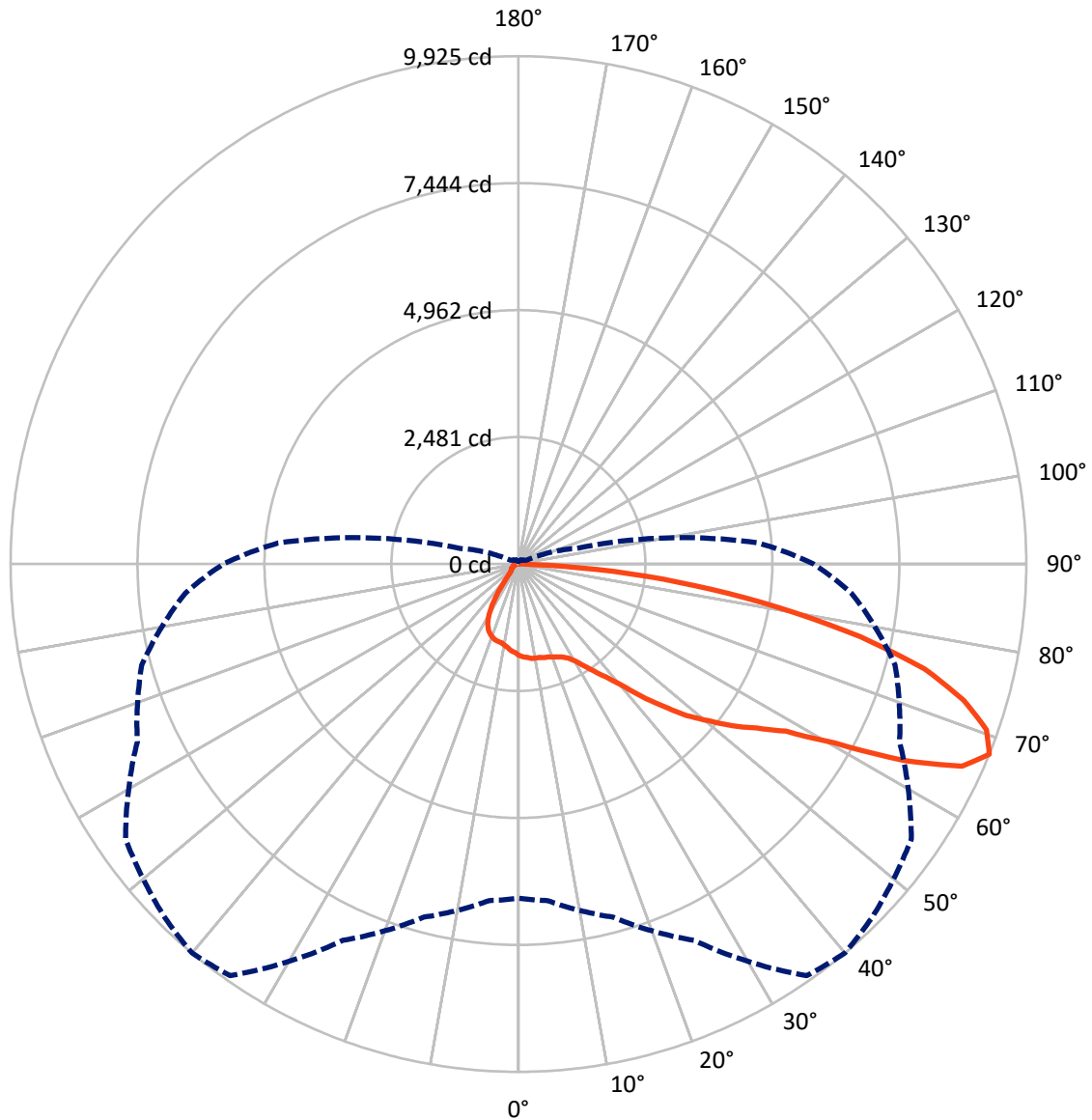
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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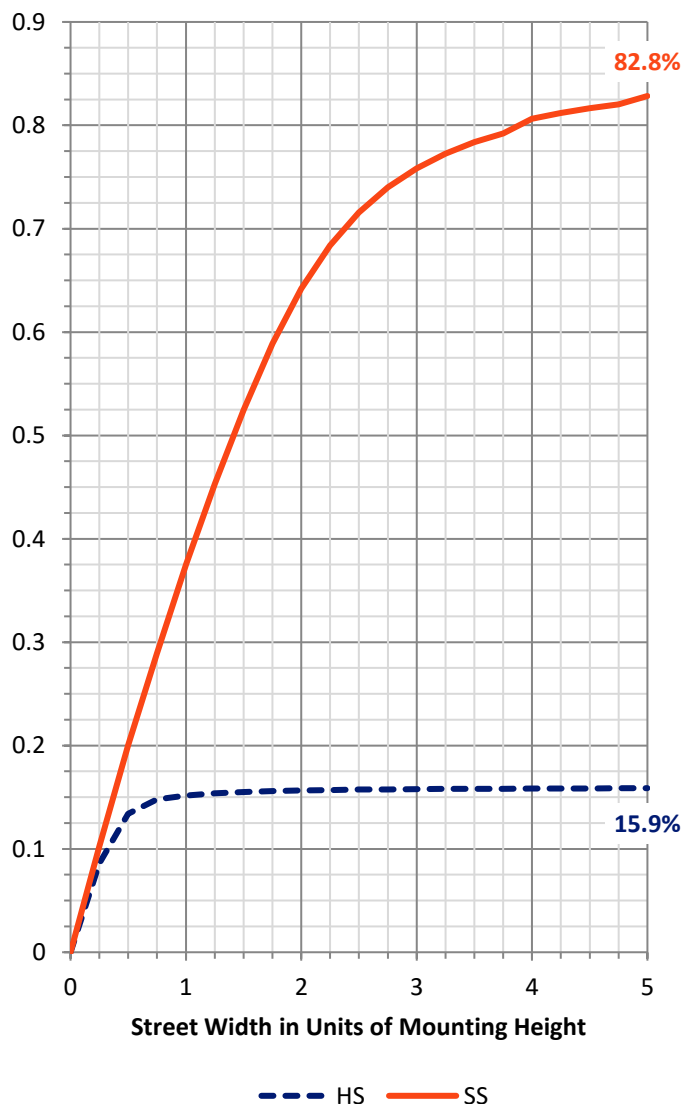
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2650.9	0.0	2650.9
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	13867.1	0.0	13867.1
	% Fixture	84.0	0.0	84.0
Total	Lumens	16518.0	0.0	16518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.0
10°-20°	501.9	3.0
20°-30°	834.9	5.1
30°-40°	1312.9	7.9
40°-50°	2273.2	13.8
50°-60°	3360.2	20.3
60°-70°	4368.6	26.4
70°-80°	3126.9	18.9
80°-90°	570.2	3.5
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°	16518.0	100.0
0°-180°	16518.0	100.0

Coefficient of Utilization



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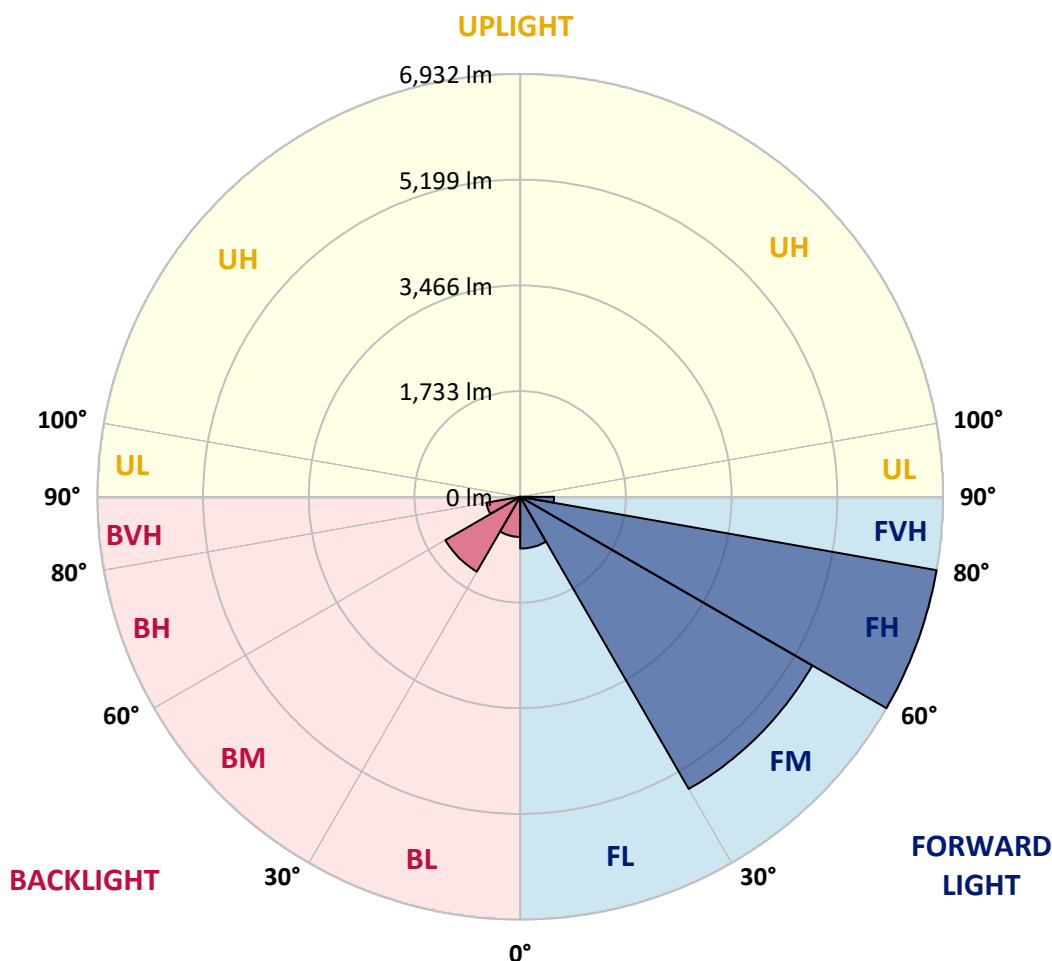
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.4	5.1			
FM (30°-60°)	5530.3	33.5			
FH (60°-80°)	6932.2	42.0			G3/7500
FVH (80°-90°)	556.2	3.4			G4/750
BL (0°-30°)	657.6	4.0	B2/1000		
BM (30°-60°)	1416.0	8.6	B2/2500		
BH (60°-80°)	563.2	3.4	B2/1000		G2/1000
BVH (80°-90°)	14.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0
2.5°	1860.4	1859.1	1846.9	1840.8	1823.6	1817.5	1818.7	1811.3	1794.1	1796.6	1779.4
5°	1862.8	1871.4	1853.0	1848.1	1842.0	1834.6	1843.2	1833.4	1818.7	1823.6	1805.2
7.5°	1873.9	1877.5	1869.0	1864.1	1849.3	1864.1	1862.8	1854.2	1844.4	1835.8	1828.5
10°	1877.5	1873.9	1856.7	1853.0	1853.0	1867.7	1873.9	1877.5	1877.5	1864.1	1859.1
12.5°	1859.1	1856.7	1839.5	1846.9	1862.8	1872.6	1892.3	1904.5	1924.1	1909.4	1902.1
15°	1830.9	1837.1	1844.4	1846.9	1876.3	1898.4	1916.8	1938.9	1972.0	1972.0	1969.5
17.5°	1839.5	1851.8	1860.4	1872.6	1900.8	1908.2	1934.0	1969.5	2024.7	2028.4	2034.5
20°	1882.4	1882.4	1884.9	1893.5	1918.0	1940.1	1962.2	2007.5	2071.3	2092.2	2098.3
22.5°	1929.0	1926.6	1937.6	1936.4	1956.0	1970.7	1999.0	2038.2	2117.9	2157.1	2173.1
25°	1967.1	1974.4	1984.2	1972.0	2010.0	2016.1	2038.2	2086.0	2170.6	2240.5	2274.9
27.5°	2032.1	2037.0	2034.5	2040.6	2078.7	2082.3	2103.2	2171.9	2250.4	2346.0	2420.8
30°	2143.7	2126.5	2128.9	2142.4	2197.6	2205.0	2227.1	2293.3	2355.8	2482.1	2599.9
32.5°	2297.0	2297.0	2270.0	2295.7	2359.5	2379.1	2412.2	2511.6	2572.9	2640.3	2834.1
35°	2590.1	2590.1	2570.4	2503.0	2534.9	2583.9	2645.2	2782.6	2971.4	3192.2	3398.2
37.5°	3075.7	3068.3	2991.1	2869.7	2801.0	2818.2	2878.2	3100.2	3406.8	3945.2	4103.4
40°	3655.7	3634.9	3490.2	3321.0	3145.6	3116.2	3144.4	3422.7	3859.3	4657.7	4717.8
42.5°	4170.8	4169.6	3957.4	3813.9	3589.5	3540.5	3507.4	3749.0	4313.1	5175.2	5196.0
45°	4662.6	4650.3	4444.3	4288.5	4083.7	3958.7	3950.1	4119.3	4790.1	5641.2	5552.9
47.5°	5100.4	5118.8	4888.2	4738.6	4511.7	4425.9	4357.2	4501.9	5229.2	6038.5	5855.8
50°	5604.4	5637.5	5292.9	5128.6	4899.3	4814.6	4852.7	4959.4	5667.0	6363.5	6125.6
52.5°	6240.9	6135.4	5793.3	5511.2	5297.8	5256.1	5264.7	5413.1	6173.4	6629.6	6313.2
55°	6990.2	6834.4	6491.1	6050.8	5702.5	5663.3	5659.6	5810.4	6641.9	6878.6	6458.0
57.5°	7272.3	7353.2	7218.3	6893.3	6277.7	6162.4	6072.9	6212.7	7062.5	7153.3	6610.0
60°	7923.4	8010.5	7911.2	7702.7	7494.2	7093.2	6700.8	6687.3	7455.0	7415.7	6673.8
62.5°	7995.8	7967.6	8409.1	8482.7	8606.5	8450.8	8160.1	7316.4	7809.4	7549.4	6724.1
65°	7591.1	7594.8	8187.1	8591.8	9447.8	9527.5	9347.2	8317.1	8075.5	7602.1	6688.5
67.5°	6531.5	6603.9	7143.5	8113.5	9820.6	9924.8	9772.8	9373.0	8219.0	7620.5	6534.0
70°	5613.0	5615.5	6125.6	7309.0	9624.4	9702.9	9633.0	9441.7	8163.8	7474.6	6114.6
72.5°	4417.3	4403.8	4851.4	6047.1	8931.5	9098.3	9060.3	9191.5	7961.5	6947.3	5202.2
75°	3189.7	3216.7	3670.5	4657.7	7683.1	8200.6	8384.6	8784.3	7240.4	5900.0	3813.9
77.5°	2233.2	2260.2	2695.5	3538.0	6200.4	6824.6	7120.2	7470.9	5868.1	4373.2	1954.8
80°	1460.6	1485.1	1859.1	2657.5	4622.1	5154.3	5376.3	5166.6	3446.0	1837.1	214.6
82.5°	848.6	896.5	1181.0	1823.6	3238.8	3491.4	3503.7	2718.8	1287.7	164.3	100.6
85°	413.3	443.9	706.4	1081.6	1772.1	1862.8	1727.9	1011.7	300.5	78.5	57.6
87.5°	61.3	80.9	278.4	408.4	300.5	246.5	148.4	34.3	19.6	9.8	7.4
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°	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0
2.5°	1769.6	1768.4	1772.1	1756.1	1757.4	1737.7	1730.4	1726.7	1743.9	1741.4	1753.7
5°	1791.7	1779.4	1778.2	1739.0	1735.3	1710.8	1696.0	1674.0	1691.1	1687.5	1687.5
7.5°	1805.2	1792.9	1785.6	1739.0	1707.1	1664.2	1639.6	1622.5	1621.2	1617.6	1618.8
10°	1827.3	1821.1	1781.9	1730.4	1687.5	1632.3	1585.7	1558.7	1546.4	1547.7	1539.1
12.5°	1876.3	1864.1	1811.3	1750.0	1681.3	1605.3	1545.2	1497.4	1472.8	1467.9	1454.5
15°	1946.2	1932.7	1866.5	1796.6	1697.3	1607.7	1518.2	1433.6	1391.9	1374.7	1362.5
17.5°	2028.4	2007.5	1931.5	1851.8	1730.4	1605.3	1492.5	1378.4	1298.7	1253.3	1249.7
20°	2093.4	2083.6	1996.5	1910.7	1751.2	1589.3	1449.5	1298.7	1179.7	1096.4	1079.2
22.5°	2179.2	2180.5	2083.6	1954.8	1768.4	1562.4	1382.1	1187.1	1025.2	913.6	894.0
25°	2303.1	2284.7	2175.5	1990.4	1772.1	1531.7	1290.1	1047.3	836.4	711.3	689.2
27.5°	2451.5	2424.5	2250.4	2008.8	1756.1	1470.4	1167.5	864.6	618.1	510.2	493.0
30°	2608.4	2544.7	2311.7	2016.1	1707.1	1371.1	993.3	631.6	437.8	361.8	354.4
32.5°	2809.6	2716.4	2364.4	1991.6	1632.3	1220.2	770.1	432.9	302.9	262.4	264.9
35°	3221.6	2993.5	2446.6	1964.6	1526.8	1031.4	538.4	287.0	234.2	229.3	230.6
37.5°	3844.6	3482.8	2591.3	1925.4	1369.8	788.5	345.8	222.0	223.2	223.2	223.2
40°	4446.7	4017.5	2813.2	1848.1	1177.3	551.9	228.1	209.7	215.8	214.6	215.8
42.5°	4876.0	4414.9	3046.3	1753.7	955.3	349.5	204.8	197.4	201.1	199.9	203.6
45°	5224.3	4755.8	3258.4	1620.0	715.0	228.1	201.1	187.6	184.0	182.7	186.4
47.5°	5481.8	4980.2	3410.5	1453.2	477.1	196.2	192.5	172.9	168.0	168.0	169.2
50°	5732.0	5196.0	3455.9	1263.1	294.3	191.3	181.5	160.7	153.3	150.8	153.3
52.5°	5906.1	5269.6	3465.7	1048.5	197.4	186.4	168.0	145.9	137.4	136.1	137.4
55°	6054.5	5420.5	3386.0	781.2	176.6	175.4	155.7	131.2	121.4	126.3	128.8
57.5°	6091.3	5435.2	3226.5	516.3	175.4	160.7	142.3	117.7	110.4	115.3	116.5
60°	6184.5	5375.1	3027.9	317.6	171.7	143.5	126.3	104.2	99.3	100.6	103.0
62.5°	6104.8	5342.0	2688.2	222.0	158.2	131.2	117.7	95.7	87.1	85.8	85.8
65°	6023.8	5147.0	2055.4	184.0	141.0	122.6	106.7	84.6	74.8	69.9	69.9
67.5°	5766.3	4710.4	1173.6	170.5	127.5	112.8	96.9	77.3	65.0	58.9	56.4
70°	5117.6	3773.5	361.8	155.7	128.8	105.5	89.5	67.4	56.4	47.8	46.6
72.5°	4007.7	2359.5	169.2	137.4	132.4	98.1	83.4	62.5	50.3	40.5	39.2
75°	2358.3	565.3	138.6	101.8	112.8	104.2	82.2	60.1	44.1	33.1	31.9
77.5°	512.6	137.4	123.9	68.7	84.6	100.6	78.5	52.7	39.2	25.8	24.5
80°	123.9	107.9	112.8	52.7	56.4	69.9	63.8	45.4	35.6	20.8	19.6
82.5°	83.4	80.9	99.3	33.1	28.2	25.8	27.0	28.2	29.4	15.9	14.7
85°	55.2	69.9	52.7	18.4	15.9	13.5	13.5	12.3	17.2	9.8	9.8
87.5°	8.6	7.4	8.6	7.4	7.4	6.1	4.9	4.9	3.7	4.9	4.9
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)