

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: P509608

Luminaire Tested: **VERD-G-CA2-130-740-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-130-740-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16697 lumens
Efficiency: N/A
Efficacy: 124.7 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

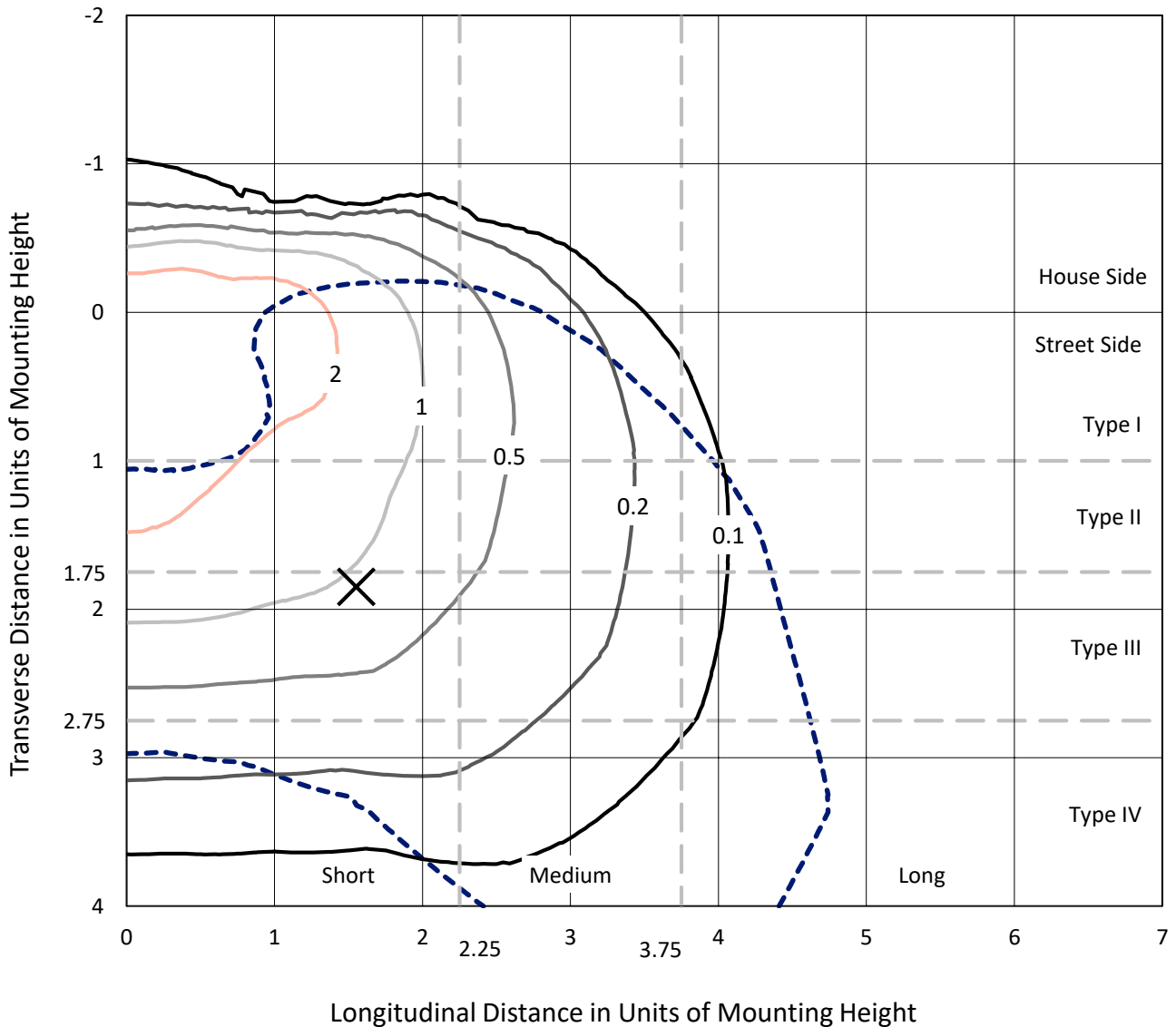
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509608
 CATALOG NUMBER: VERD-G-CA2-130-740-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

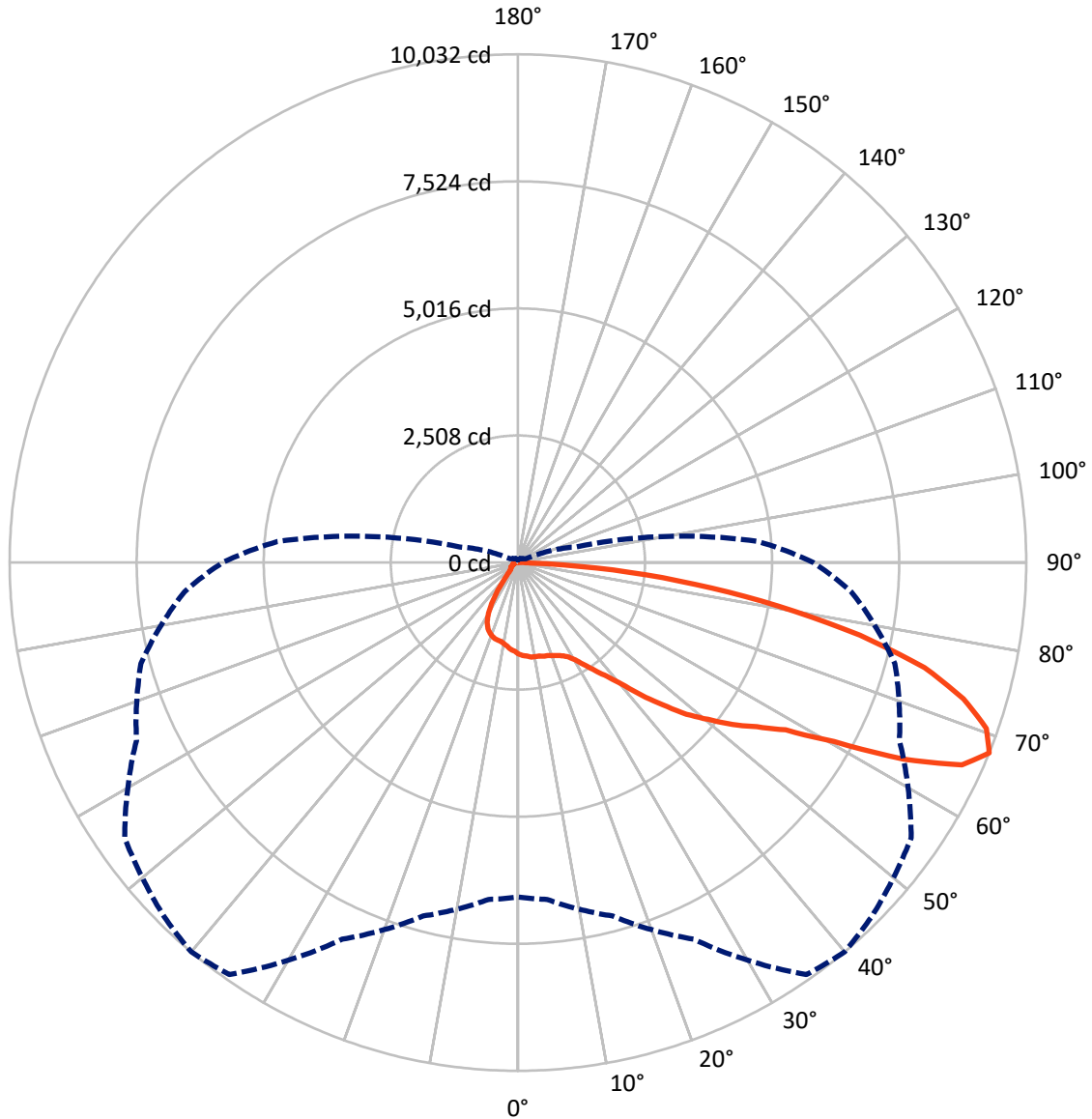
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509608
CATALOG NUMBER: VERD-G-CA2-130-740-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509608
 CATALOG NUMBER: VERD-G-CA2-130-740-U-T4-HSS

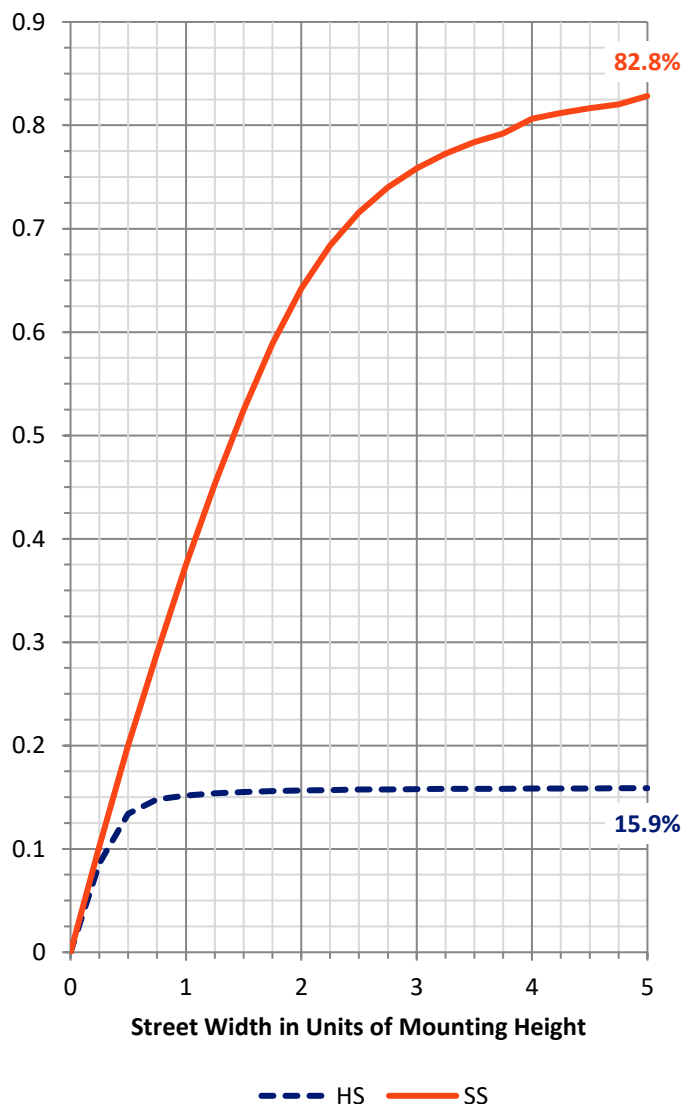
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2679.6	0.0	2679.6
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	14017.4	0.0	14017.4
	% Fixture	84.0	0.0	84.0
Total	Lumens	16697.0	0.0	16697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	1.0
10°-20°	507.3	3.0
20°-30°	844.0	5.1
30°-40°	1327.1	7.9
40°-50°	2297.9	13.8
50°-60°	3396.6	20.3
60°-70°	4415.9	26.4
70°-80°	3160.8	18.9
80°-90°	576.4	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°	16697.0	100.0
0°-180°	16697.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509608

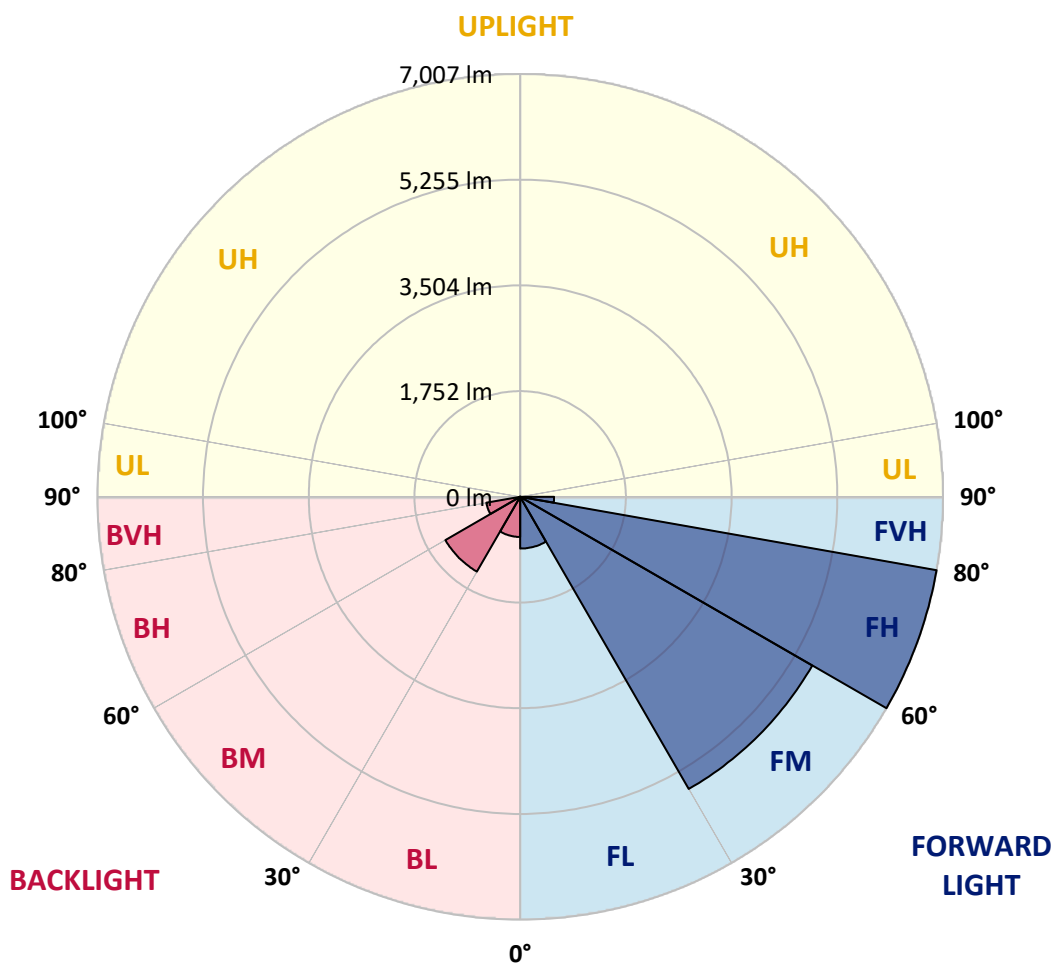
CATALOG NUMBER: VERD-G-CA2-130-740-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	857.6	5.1			
FM	(30°-60°)	5590.3	33.5			
FH	(60°-80°)	7007.3	42.0			G3/7500
FVH	(80°-90°)	562.2	3.4			G4/750
BL	(0°-30°)	664.7	4.0	B2/1000		
BM	(30°-60°)	1431.4	8.6	B2/2500		
BH	(60°-80°)	569.3	3.4	B2/1000		G2/1000
BVH	(80°-90°)	14.2	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: P509608

CATALOG NUMBER: VERD-G-CA2-130-740-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4
2.5°	1880.5	1879.3	1866.9	1860.7	1843.3	1837.1	1838.4	1830.9	1813.6	1816.1	1798.7
5°	1883.0	1891.7	1873.1	1868.1	1861.9	1854.5	1863.2	1853.3	1838.4	1843.3	1824.7
7.5°	1894.2	1897.9	1889.2	1884.3	1869.4	1884.3	1883.0	1874.3	1864.4	1855.7	1848.3
10°	1897.9	1894.2	1876.8	1873.1	1873.1	1888.0	1894.2	1897.9	1897.9	1884.3	1879.3
12.5°	1879.3	1876.8	1859.5	1866.9	1883.0	1892.9	1912.8	1925.2	1945.0	1930.1	1922.7
15°	1850.8	1857.0	1864.4	1866.9	1896.6	1919.0	1937.6	1959.9	1993.3	1993.3	1990.9
17.5°	1859.5	1871.9	1880.5	1892.9	1921.4	1928.9	1954.9	1990.9	2046.6	2050.4	2056.6
20°	1902.8	1902.8	1905.3	1914.0	1938.8	1961.1	1983.4	2029.3	2093.8	2114.8	2121.0
22.5°	1950.0	1947.5	1958.6	1957.4	1977.2	1992.1	2020.6	2060.3	2140.9	2180.5	2196.6
25°	1988.4	1995.8	2005.7	1993.3	2031.8	2038.0	2060.3	2108.6	2194.2	2264.8	2299.5
27.5°	2054.1	2059.0	2056.6	2062.8	2101.2	2104.9	2126.0	2195.4	2274.7	2371.4	2447.0
30°	2166.9	2149.5	2152.0	2165.7	2221.4	2228.9	2251.2	2318.1	2381.3	2509.0	2628.0
32.5°	2321.8	2321.8	2294.6	2320.6	2385.1	2404.9	2438.4	2538.8	2600.8	2668.9	2864.8
35°	2618.1	2618.1	2598.3	2530.1	2562.3	2611.9	2673.9	2812.7	3003.6	3226.8	3435.0
37.5°	3109.0	3101.6	3023.5	2900.8	2831.3	2848.7	2909.4	3133.8	3443.7	3987.9	4147.8
40°	3695.4	3674.3	3528.0	3356.9	3179.7	3149.9	3178.4	3459.8	3901.1	4708.2	4768.9
42.5°	4216.0	4214.8	4000.3	3855.3	3628.4	3578.8	3545.4	3789.6	4359.8	5231.3	5252.4
45°	4713.1	4700.7	4492.5	4335.0	4128.0	4001.6	3992.9	4163.9	4842.0	5702.3	5613.1
47.5°	5155.7	5174.3	4941.2	4790.0	4560.6	4473.9	4404.4	4550.7	5285.8	6104.0	5919.3
50°	5665.2	5698.6	5350.3	5184.2	4952.4	4866.8	4905.3	5013.1	5728.4	6432.5	6192.0
52.5°	6308.5	6201.9	5856.1	5570.9	5355.2	5313.1	5321.8	5471.8	6240.3	6701.5	6381.7
55°	7065.9	6908.5	6561.4	6116.4	5764.3	5724.7	5720.9	5873.4	6713.9	6953.1	6527.9
57.5°	7351.1	7432.9	7296.5	6968.0	6345.7	6229.2	6138.7	6280.0	7139.1	7230.8	6681.7
60°	8009.3	8097.3	7996.9	7786.2	7575.4	7170.1	6773.4	6759.8	7535.8	7496.1	6746.1
62.5°	8082.4	8053.9	8500.2	8574.6	8699.8	8542.4	8248.6	7395.7	7894.0	7631.2	6796.9
65°	7673.4	7677.1	8275.8	8684.9	9550.2	9630.8	9448.5	8407.2	8163.0	7684.5	6761.0
67.5°	6602.3	6675.5	7220.9	8201.5	9927.0	10032.4	9878.7	9474.6	8308.1	7703.1	6604.8
70°	5673.8	5676.3	6192.0	7388.3	9728.7	9808.0	9737.4	9544.0	8252.3	7555.6	6180.8
72.5°	4465.2	4451.5	4904.0	6112.7	9028.3	9196.9	9158.5	9291.1	8047.7	7022.6	5258.6
75°	3224.3	3251.6	3710.2	4708.2	7766.3	8289.5	8475.4	8879.5	7318.8	5963.9	3855.3
77.5°	2257.4	2284.7	2724.7	3576.4	6267.6	6898.6	7197.3	7551.9	5931.7	4420.6	1976.0
80°	1476.4	1501.2	1879.3	2686.3	4672.2	5210.2	5434.6	5222.6	3483.4	1857.0	216.9
82.5°	857.8	906.2	1193.8	1843.3	3273.9	3529.3	3541.6	2748.3	1301.6	166.1	101.7
85°	417.8	448.7	714.0	1093.4	1791.3	1883.0	1746.7	1022.7	303.7	79.3	58.3
87.5°	62.0	81.8	281.4	412.8	303.7	249.2	150.0	34.7	19.8	9.9	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



REPORT NUMBER: P509608

CATALOG NUMBER: VERD-G-CA2-130-740-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4
2.5°	1788.8	1787.6	1791.3	1775.2	1776.4	1756.6	1749.1	1745.4	1762.8	1760.3	1772.7
5°	1811.1	1798.7	1797.5	1757.8	1754.1	1729.3	1714.4	1692.1	1709.5	1705.7	1705.7
7.5°	1824.7	1812.4	1804.9	1757.8	1725.6	1682.2	1657.4	1640.0	1638.8	1635.1	1636.3
10°	1847.1	1840.9	1801.2	1749.1	1705.7	1650.0	1602.9	1575.6	1563.2	1564.4	1555.7
12.5°	1896.6	1884.3	1830.9	1769.0	1699.5	1622.7	1561.9	1513.6	1488.8	1483.8	1470.2
15°	1967.3	1953.7	1886.7	1816.1	1715.7	1625.2	1534.7	1449.1	1407.0	1389.6	1377.2
17.5°	2050.4	2029.3	1952.4	1871.9	1749.1	1622.7	1508.6	1393.4	1312.8	1266.9	1263.2
20°	2116.1	2106.1	2018.1	1931.4	1770.2	1606.6	1465.3	1312.8	1192.5	1108.2	1090.9
22.5°	2202.8	2204.1	2106.1	1976.0	1787.6	1579.3	1397.1	1200.0	1036.3	923.5	903.7
25°	2328.0	2309.4	2199.1	2011.9	1791.3	1548.3	1304.1	1058.7	845.4	719.0	696.7
27.5°	2478.0	2450.8	2274.7	2030.5	1775.2	1486.3	1180.1	873.9	624.8	515.7	498.3
30°	2636.7	2572.3	2336.7	2038.0	1725.6	1385.9	1004.1	638.4	442.6	365.7	358.3
32.5°	2840.0	2745.8	2390.0	2013.2	1650.0	1233.4	778.5	437.6	306.2	265.3	267.8
35°	3256.5	3026.0	2473.1	1985.9	1543.4	1042.5	544.2	290.1	236.8	231.8	233.1
37.5°	3886.3	3520.6	2619.4	1946.2	1384.7	797.1	349.6	224.4	225.6	225.6	225.6
40°	4494.9	4061.1	2843.7	1868.1	1190.1	557.8	230.6	212.0	218.2	216.9	218.2
42.5°	4928.8	4462.7	3079.3	1772.7	965.7	353.3	207.0	199.6	203.3	202.1	205.8
45°	5280.9	4807.3	3293.7	1637.6	722.7	230.6	203.3	189.7	185.9	184.7	188.4
47.5°	5541.2	5034.2	3447.4	1469.0	482.2	198.3	194.6	174.8	169.8	169.8	171.1
50°	5794.1	5252.4	3493.3	1276.8	297.5	193.4	183.5	162.4	155.0	152.5	155.0
52.5°	5970.1	5326.7	3503.2	1059.9	199.6	188.4	169.8	147.5	138.8	137.6	138.8
55°	6120.1	5479.2	3422.6	789.7	178.5	177.3	157.4	132.6	122.7	127.7	130.2
57.5°	6157.3	5494.1	3261.5	521.9	177.3	162.4	143.8	119.0	111.6	116.5	117.8
60°	6251.5	5433.3	3060.7	321.1	173.5	145.0	127.7	105.4	100.4	101.7	104.1
62.5°	6170.9	5399.9	2717.3	224.4	159.9	132.6	119.0	96.7	88.0	86.8	86.8
65°	6089.1	5202.8	2077.6	185.9	142.6	124.0	107.8	85.5	75.6	70.7	70.7
67.5°	5828.8	4761.5	1186.3	172.3	128.9	114.0	97.9	78.1	65.7	59.5	57.0
70°	5173.0	3814.4	365.7	157.4	130.2	106.6	90.5	68.2	57.0	48.3	47.1
72.5°	4051.1	2385.1	171.1	138.8	133.9	99.2	84.3	63.2	50.8	40.9	39.7
75°	2383.8	571.5	140.1	102.9	114.0	105.4	83.1	60.7	44.6	33.5	32.2
77.5°	518.2	138.8	125.2	69.4	85.5	101.7	79.3	53.3	39.7	26.0	24.8
80°	125.2	109.1	114.0	53.3	57.0	70.7	64.5	45.9	35.9	21.1	19.8
82.5°	84.3	81.8	100.4	33.5	28.5	26.0	27.3	28.5	29.8	16.1	14.9
85°	55.8	70.7	53.3	18.6	16.1	13.6	13.6	12.4	17.4	9.9	9.9
87.5°	8.7	7.4	8.7	7.4	7.4	6.2	5.0	5.0	3.7	5.0	5.0
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)