

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: P509216

Luminaire Tested: **VERD-CA2-130-730-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-730-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1180mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16240 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

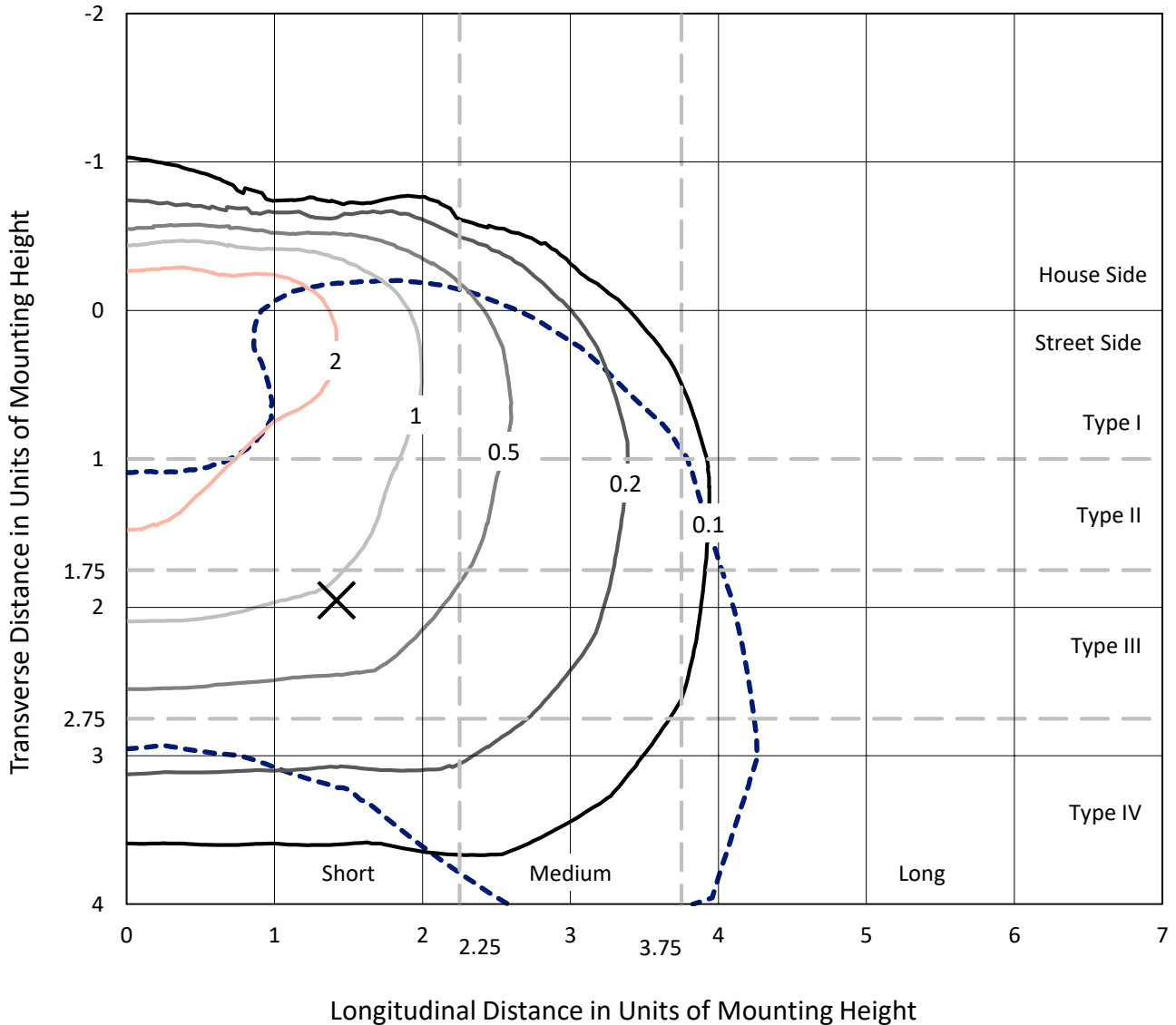
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509216
 CATALOG NUMBER: VERD-CA2-130-730-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

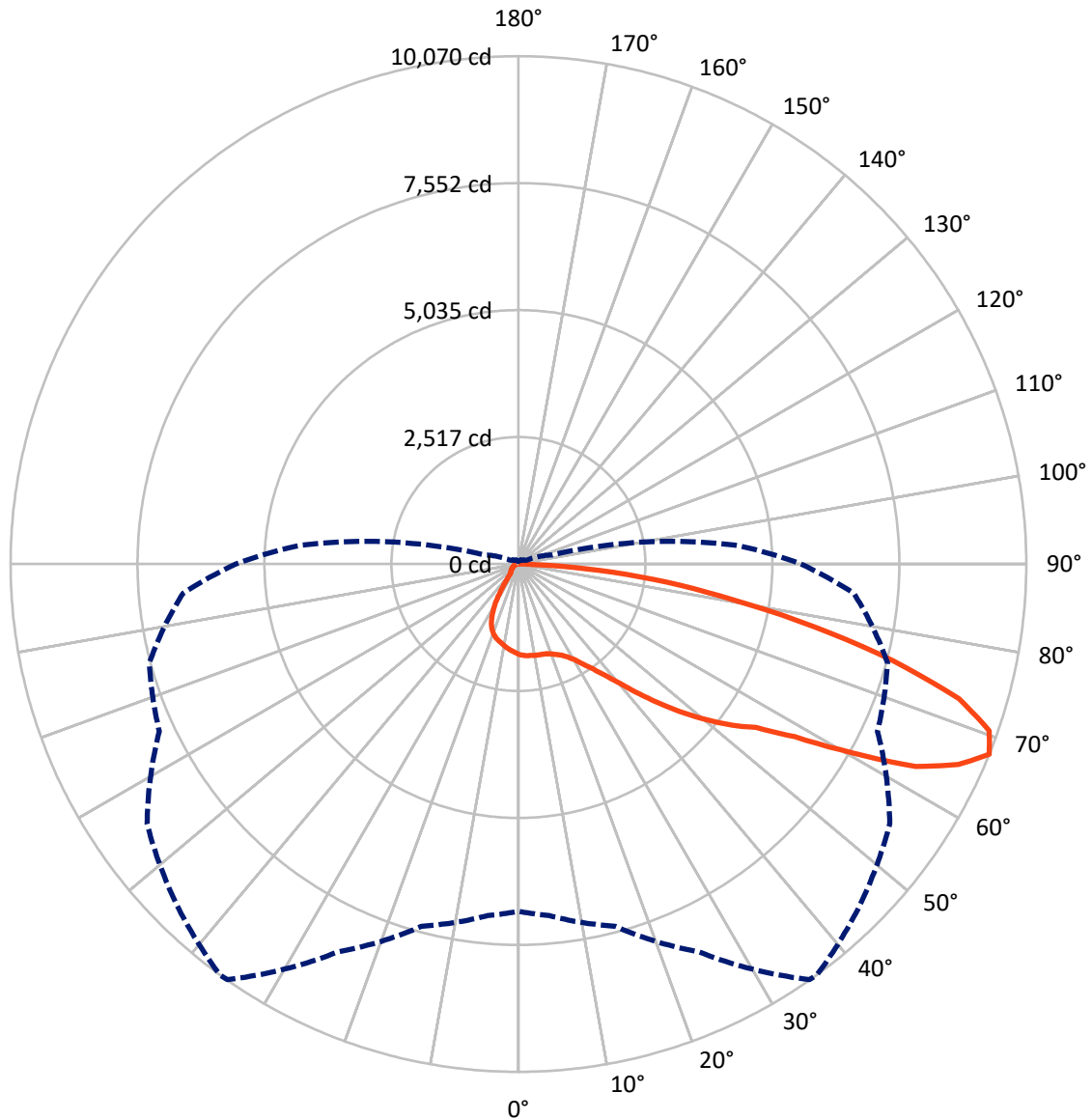
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509216
CATALOG NUMBER: VERD-CA2-130-730-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: VERD-CA2-130-730-U-T4-HSS

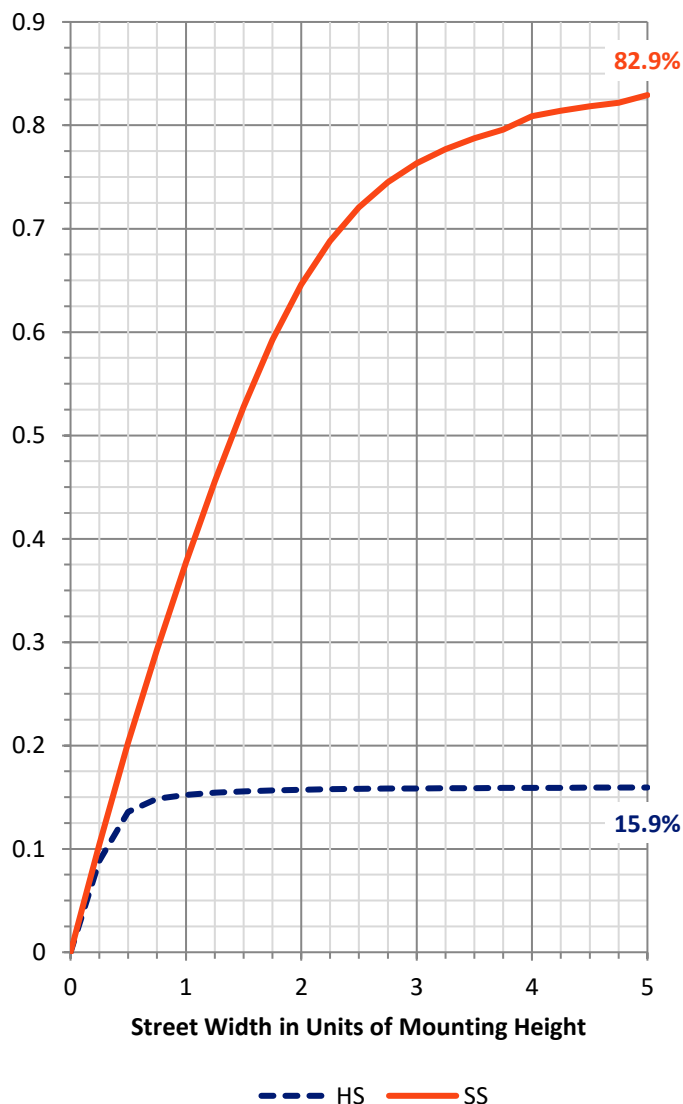
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2619.0	0.0	2619.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	13621.0	0.0	13621.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	16240.0	0.0	16240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	1.0
10°-20°	501.8	3.1
20°-30°	829.9	5.1
30°-40°	1316.4	8.1
40°-50°	2272.2	14.0
50°-60°	3368.0	20.7
60°-70°	4354.4	26.8
70°-80°	2939.3	18.1
80°-90°	488.6	3.0
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°	16240.0	100.0
0°-180°	16240.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509216

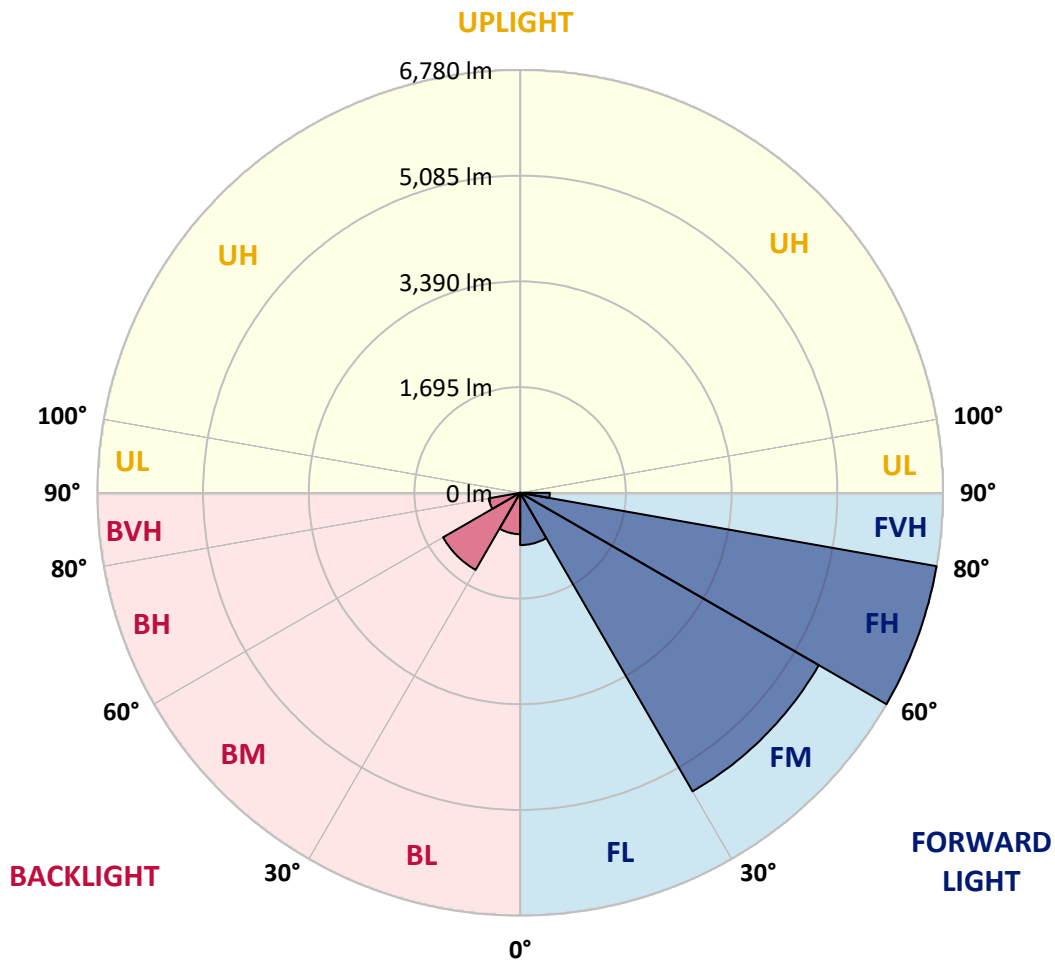
CATALOG NUMBER: VERD-CA2-130-730-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.3	5.2			
FM (30°-60°)	5527.8	34.0			
FH (60°-80°)	6780.2	41.8			G3/7500
FVH (80°-90°)	474.7	2.9			G3/500
BL (0°-30°)	662.8	4.1	B2/1000		
BM (30°-60°)	1428.8	8.8	B2/2500		
BH (60°-80°)	513.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	13.9	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-G3

Type IV Short





REPORT NUMBER: P509216

CATALOG NUMBER: VERD-CA2-130-730-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8
2.5°	1802.6	1820.1	1818.1	1816.2	1816.2	1814.2	1802.6	1790.9	1796.8	1794.8	1792.9
5°	1810.4	1827.8	1825.9	1824.0	1824.0	1825.9	1808.4	1794.8	1798.7	1802.6	1800.6
7.5°	1814.2	1829.8	1825.9	1824.0	1822.0	1827.8	1814.2	1816.2	1820.1	1820.1	1820.1
10°	1820.1	1831.7	1831.7	1833.7	1835.6	1841.4	1835.6	1841.4	1857.0	1853.1	1862.8
12.5°	1804.5	1818.1	1824.0	1833.7	1843.4	1847.3	1853.1	1868.6	1888.1	1897.8	1907.5
15°	1798.7	1812.3	1822.0	1833.7	1849.2	1853.1	1868.6	1895.8	1919.1	1938.6	1959.9
17.5°	1818.1	1833.7	1847.3	1855.0	1862.8	1868.6	1884.2	1919.1	1959.9	1994.9	2026.0
20°	1855.0	1870.6	1886.1	1893.9	1899.7	1903.6	1915.3	1948.3	2000.7	2055.1	2099.8
22.5°	1897.8	1913.3	1930.8	1936.6	1950.2	1950.2	1952.2	1985.2	2049.3	2123.1	2177.5
25°	1944.4	1954.1	1969.6	1979.4	1998.8	2002.7	2008.5	2037.6	2117.3	2200.8	2286.3
27.5°	1998.8	2018.2	2033.7	2045.4	2084.2	2086.2	2082.3	2119.2	2196.9	2299.9	2420.3
30°	2097.8	2119.2	2134.8	2154.2	2204.7	2202.7	2228.0	2266.8	2311.5	2424.2	2585.4
32.5°	2255.2	2257.1	2264.9	2290.1	2362.0	2369.8	2418.3	2488.3	2577.6	2649.5	2820.4
35°	2542.7	2533.0	2509.6	2505.8	2554.3	2558.2	2653.4	2801.0	2995.3	3234.2	3498.3
37.5°	2878.7	2904.0	2876.8	2793.2	2801.0	2803.0	2915.6	3104.0	3465.3	4063.6	4314.2
40°	3469.2	3482.8	3313.8	3181.7	3135.1	3113.7	3172.0	3457.6	3919.9	4698.8	4875.5
42.5°	3989.8	3989.8	3832.4	3628.5	3510.0	3525.5	3508.1	3791.7	4386.0	5250.4	5314.5
45°	4510.4	4492.9	4349.1	4178.2	3970.4	3956.8	3912.1	4129.6	4815.3	5646.7	5648.6
47.5°	4996.0	5036.8	4821.2	4632.7	4421.0	4411.3	4331.7	4500.7	5227.1	5994.4	5941.9
50°	5506.8	5563.2	5293.2	5081.4	4852.2	4865.8	4799.8	4918.3	5637.0	6318.8	6223.6
52.5°	6233.3	6128.4	5806.0	5512.7	5275.7	5314.5	5246.6	5316.5	6062.4	6577.1	6379.0
55°	7012.2	6825.8	6557.7	6066.3	5722.5	5718.6	5668.1	5751.6	6491.7	6872.4	6555.8
57.5°	7429.9	7486.2	7424.0	7025.8	6470.3	6460.6	6157.6	6167.3	6886.0	7124.9	6802.5
60°	7905.8	7975.7	8111.7	7863.0	7585.3	7593.0	6837.4	6612.1	7301.7	7326.9	6821.9
62.5°	8158.3	8166.1	8478.8	8566.2	8791.5	8842.0	8269.0	7156.0	7577.5	7482.3	6854.9
65°	7711.5	7725.1	8327.3	8768.2	9519.9	9587.9	9341.2	8208.8	7783.4	7563.9	6823.8
67.5°	6886.0	6996.7	7435.7	8488.5	10059.9	10069.6	9572.4	8987.7	7855.3	7575.5	6674.3
70°	5771.0	5732.2	6287.7	7552.2	9976.4	9904.5	9471.4	9077.1	7802.8	7416.3	5992.5
72.5°	4279.2	4220.9	4794.0	6072.1	8999.4	9135.3	9018.8	8554.5	7604.7	6821.9	4863.9
75°	2929.2	2997.2	3511.9	4578.3	7474.5	7680.4	8195.2	8150.5	6765.5	5654.5	3329.4
77.5°	2004.6	2033.7	2474.7	3407.1	5924.5	6004.1	6856.8	6584.9	4974.6	3475.0	1111.1
80°	1305.3	1295.6	1691.9	2426.1	4343.3	4333.6	4896.9	4166.6	2680.6	1184.9	153.5
82.5°	728.4	771.2	1014.0	1594.7	2935.0	2966.1	3057.4	2278.5	1031.4	137.9	97.1
85°	409.9	427.3	582.7	903.2	1538.4	1616.1	1363.6	837.2	184.5	75.8	56.3
87.5°	97.1	93.2	186.5	345.8	256.4	277.8	132.1	38.8	19.4	13.6	13.6
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: P509216
 CATALOG NUMBER: VERD-CA2-130-730-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8
2.5°	1792.9	1789.0	1785.1	1777.3	1771.5	1754.0	1756.0	1767.6	1756.0	1775.4	1763.7
5°	1796.8	1790.9	1781.2	1757.9	1740.4	1726.8	1723.0	1721.0	1705.5	1723.0	1715.2
7.5°	1812.3	1806.5	1785.1	1759.9	1734.6	1693.8	1688.0	1680.2	1651.1	1662.7	1653.0
10°	1849.2	1841.4	1804.5	1769.6	1730.7	1676.3	1645.3	1621.9	1588.9	1592.8	1583.1
12.5°	1895.8	1888.1	1845.3	1787.1	1732.7	1656.9	1602.5	1557.8	1509.3	1509.3	1499.6
15°	1950.2	1942.4	1893.9	1825.9	1740.4	1641.4	1559.8	1487.9	1410.2	1400.5	1388.9
17.5°	2024.0	2012.4	1956.0	1868.6	1761.8	1627.8	1517.1	1410.2	1291.7	1254.8	1235.4
20°	2099.8	2086.2	2037.6	1928.9	1790.9	1614.2	1454.9	1309.2	1155.8	1080.0	1066.4
22.5°	2196.9	2193.0	2132.8	1981.3	1800.6	1585.0	1377.2	1196.5	990.6	885.8	864.4
25°	2311.5	2305.7	2212.4	2022.1	1789.0	1526.8	1266.5	1035.3	804.2	699.3	676.0
27.5°	2447.5	2431.9	2280.4	2031.8	1756.0	1435.5	1124.7	827.5	594.4	505.0	487.6
30°	2591.2	2567.9	2352.3	2033.7	1689.9	1322.8	938.2	608.0	421.5	357.4	357.4
32.5°	2832.1	2752.4	2422.2	2006.5	1594.7	1161.6	714.8	409.9	295.3	270.0	270.0
35°	3348.8	3158.4	2533.0	1971.6	1470.4	961.5	485.6	277.8	246.7	246.7	244.7
37.5°	4123.8	3770.3	2721.4	1913.3	1301.4	714.8	320.5	229.2	235.0	235.0	235.0
40°	4619.1	4248.1	2977.8	1822.0	1107.2	485.6	229.2	217.6	221.4	225.3	225.3
42.5°	5081.4	4663.8	3234.2	1695.8	893.5	310.8	213.7	204.0	205.9	205.9	207.8
45°	5374.8	4972.7	3424.5	1561.7	658.5	221.4	209.8	192.3	186.5	186.5	190.4
47.5°	5646.7	5174.7	3508.1	1385.0	425.4	207.8	200.1	178.7	170.9	169.0	169.0
50°	5918.6	5382.5	3554.7	1175.2	266.1	200.1	184.5	163.2	155.4	153.5	153.5
52.5°	6039.1	5448.6	3449.8	938.2	198.1	192.3	172.9	149.6	137.9	137.9	137.9
55°	6165.3	5570.9	3273.0	672.1	188.4	178.7	159.3	134.0	124.3	128.2	128.2
57.5°	6305.2	5483.5	3084.6	437.1	186.5	161.2	141.8	120.4	112.7	116.5	118.5
60°	6262.5	5504.9	2814.6	293.3	178.7	147.6	128.2	106.8	101.0	101.0	101.0
62.5°	6262.5	5339.8	2371.7	223.4	163.2	136.0	118.5	99.1	89.4	85.5	81.6
65°	6097.3	4949.4	1732.7	194.2	145.7	126.3	106.8	87.4	75.8	69.9	68.0
67.5°	5598.1	4302.5	697.3	176.8	134.0	116.5	99.1	79.6	66.0	58.3	56.3
70°	4759.0	3175.9	200.1	157.3	136.0	108.8	93.2	69.9	58.3	48.6	46.6
72.5°	3527.5	1678.3	163.2	124.3	120.4	93.2	87.4	66.0	50.5	40.8	38.8
75°	1781.2	229.2	139.9	89.4	93.2	97.1	83.5	58.3	46.6	33.0	31.1
77.5°	184.5	136.0	122.4	60.2	66.0	68.0	71.9	54.4	40.8	27.2	25.3
80°	114.6	102.9	120.4	52.4	38.8	46.6	48.6	42.7	33.0	21.4	21.4
82.5°	81.6	87.4	89.4	33.0	29.1	27.2	25.3	25.3	29.1	19.4	19.4
85°	56.3	58.3	36.9	21.4	19.4	17.5	15.5	15.5	13.6	15.5	13.6
87.5°	13.6	11.7	11.7	11.7	9.7	9.7	7.8	7.8	7.8	7.8	9.7
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)