

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: P509240

Luminaire Tested: **VERD-CA2-130-760-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509240
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-CA2-130-760-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1180mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16486 lumens
Efficiency: N/A
Efficacy: 125.1 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

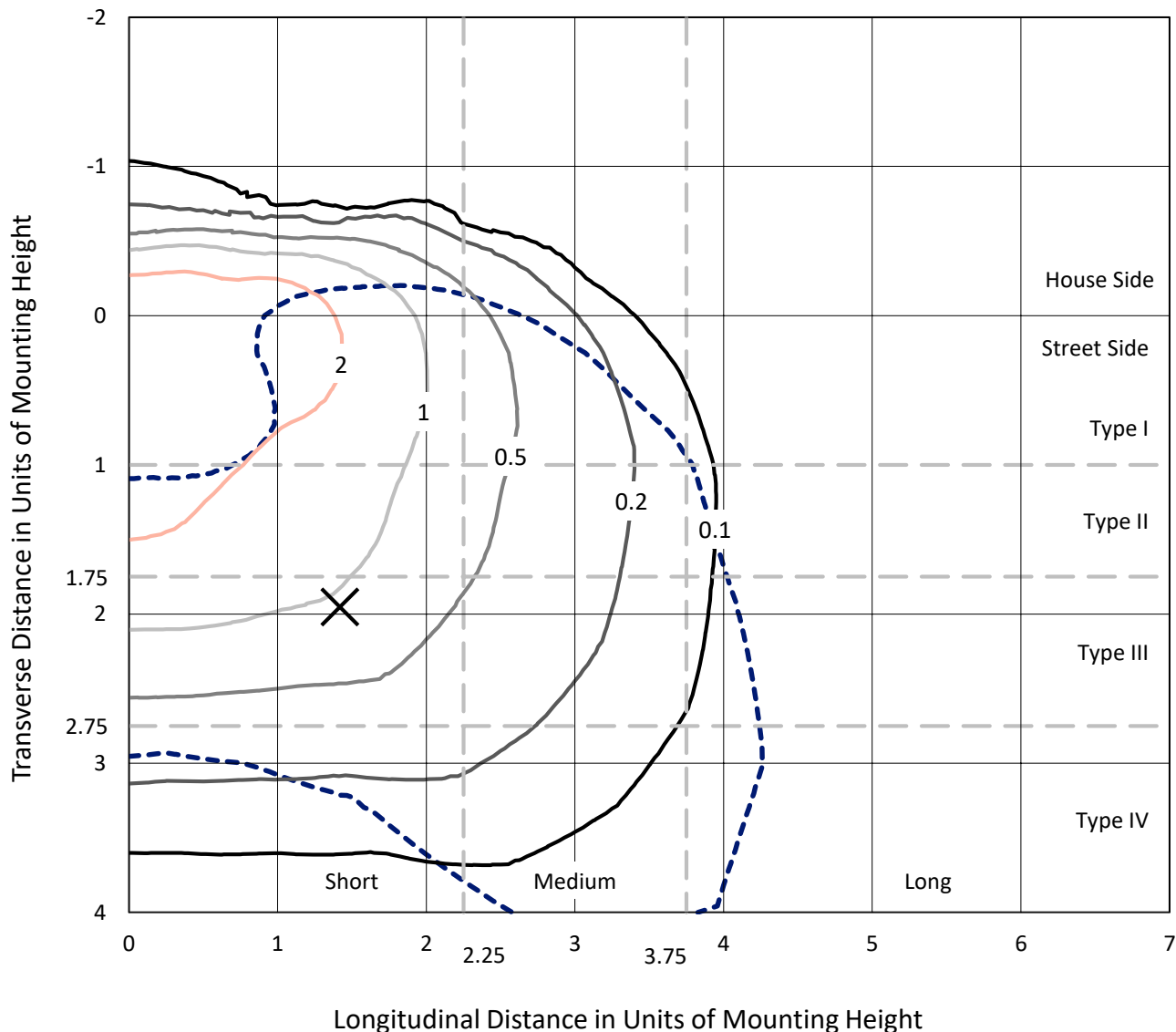
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

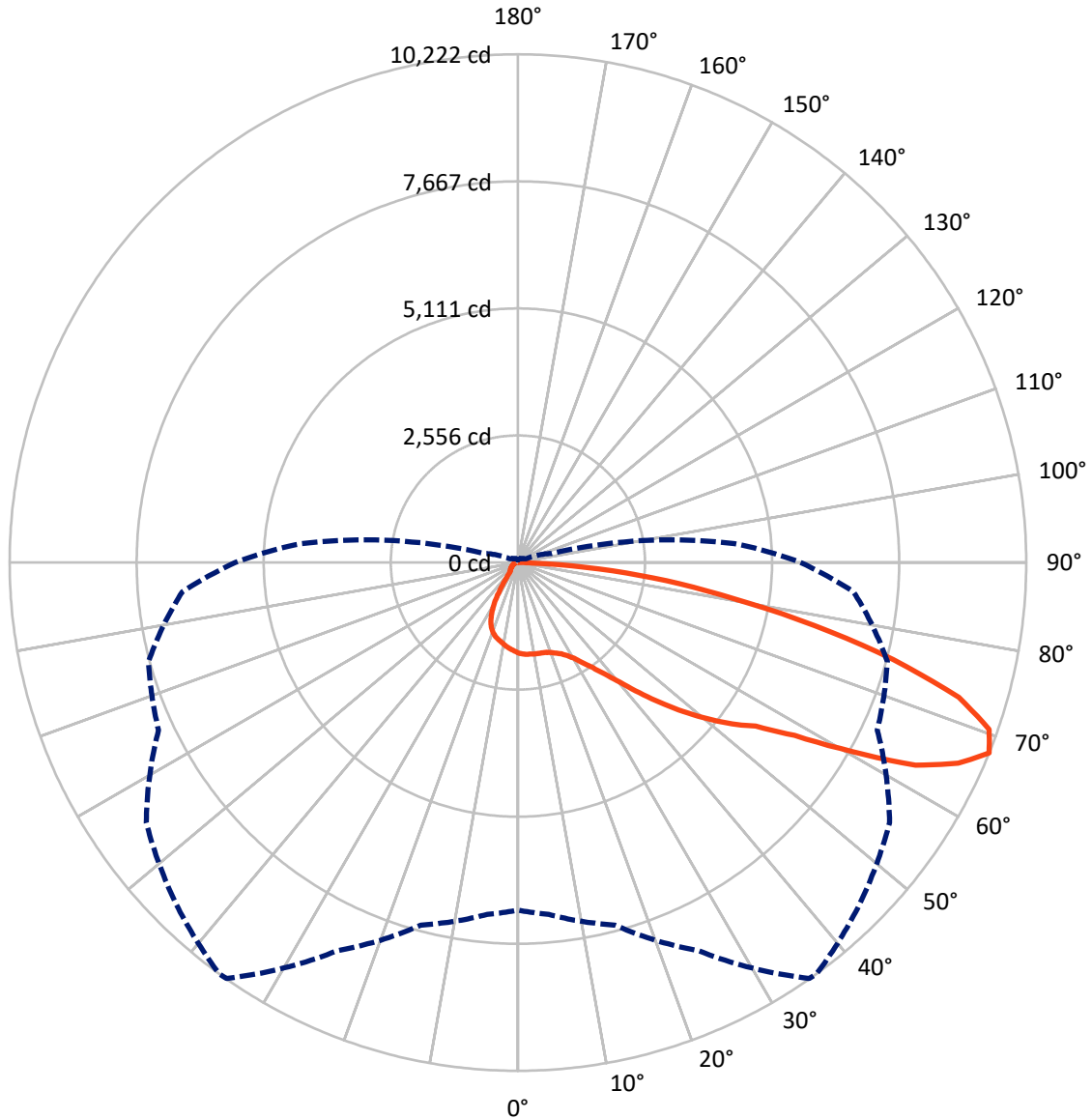
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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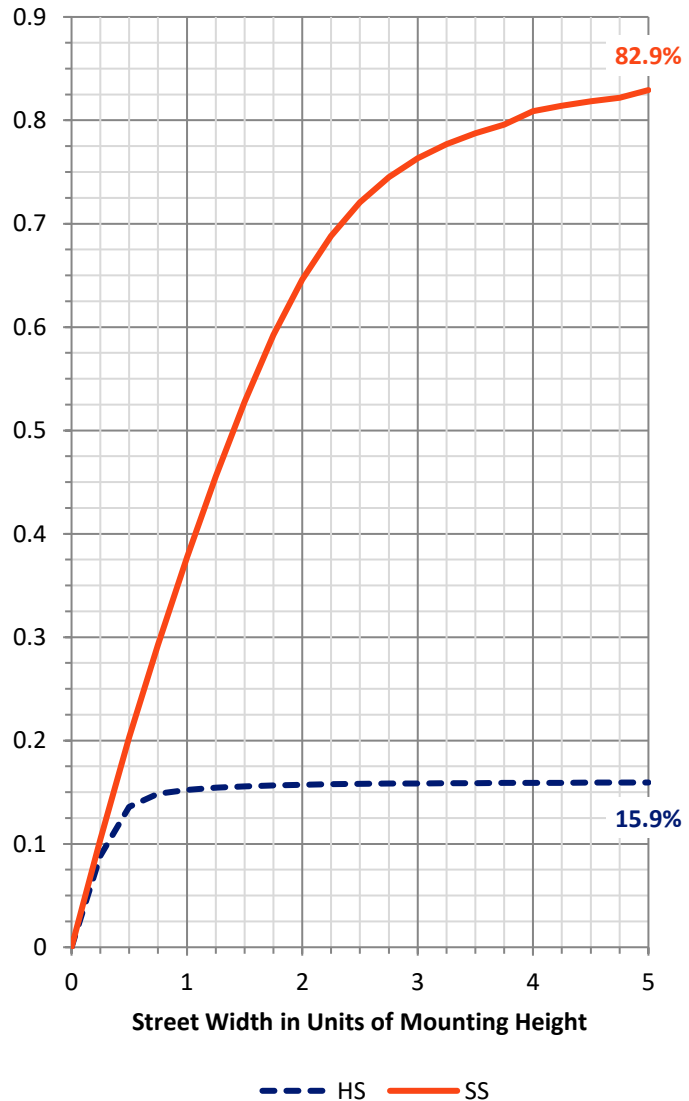
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2658.7	0.0	2658.7
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	13827.3	0.0	13827.3
	% Fixture	83.9	0.0	83.9
Total	Lumens	16486.0	0.0	16486.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.0
10°-20°	509.4	3.1
20°-30°	842.5	5.1
30°-40°	1336.4	8.1
40°-50°	2306.6	14.0
50°-60°	3419.0	20.7
60°-70°	4420.3	26.8
70°-80°	2983.9	18.1
80°-90°	496.0	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°	16486.0	100.0
0°-180°	16486.0	100.0



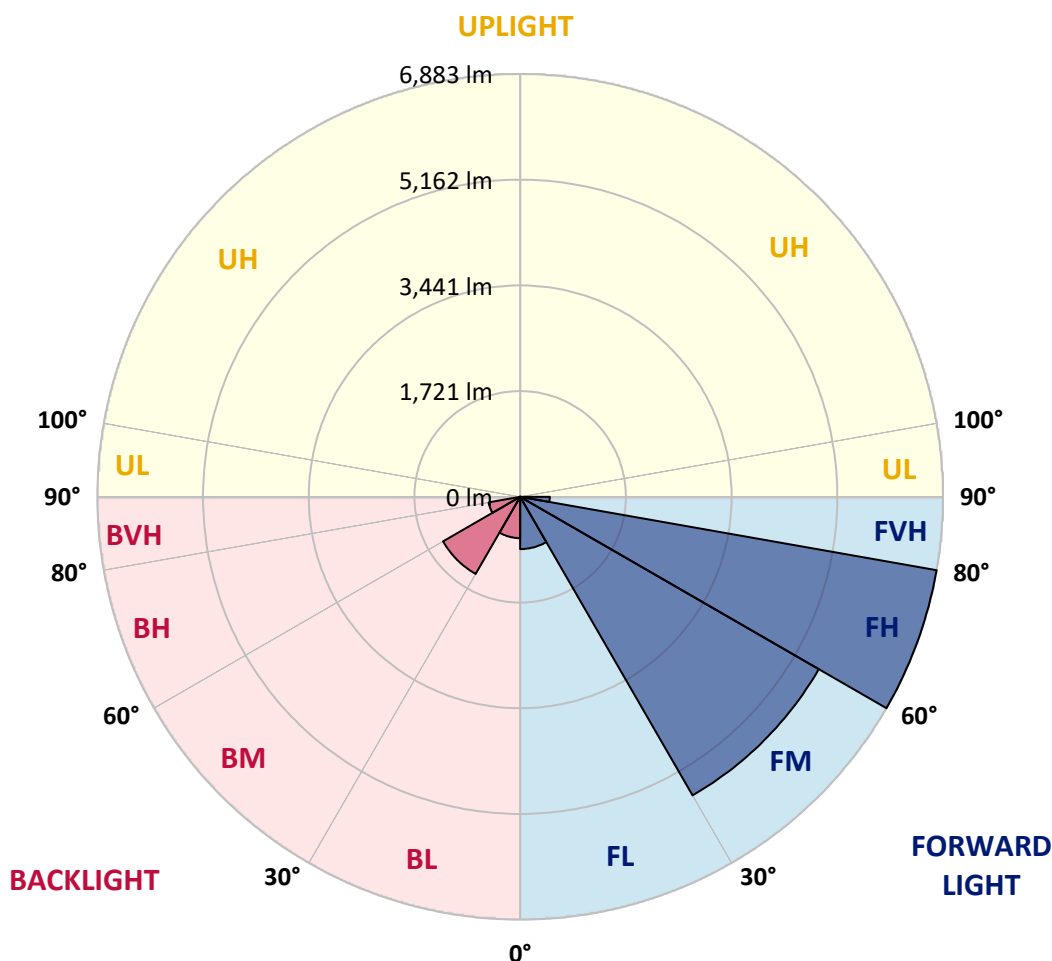
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.0	5.2			
FM	(30°-60°)	5611.5	34.0			
FH	(60°-80°)	6882.9	41.8			G3/7500
FVH	(80°-90°)	481.9	2.9			G3/500
BL	(0°-30°)	672.8	4.1	B2/1000		
BM	(30°-60°)	1450.5	8.8	B2/2500		
BH	(60°-80°)	521.3	3.2	B2/1000		G2/1000
BVH	(80°-90°)	14.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0
2.5°	1829.9	1847.6	1845.7	1843.7	1843.7	1841.7	1829.9	1818.1	1824.0	1822.0	1820.0
5°	1837.8	1855.5	1853.6	1851.6	1851.6	1853.6	1835.8	1822.0	1826.0	1829.9	1827.9
7.5°	1841.7	1857.5	1853.6	1851.6	1849.6	1855.5	1841.7	1843.7	1847.6	1847.6	1847.6
10°	1847.6	1859.5	1859.5	1861.4	1863.4	1869.3	1863.4	1869.3	1885.1	1881.2	1891.0
12.5°	1831.9	1845.7	1851.6	1861.4	1871.3	1875.2	1881.2	1896.9	1916.7	1926.5	1936.4
15°	1826.0	1839.8	1849.6	1861.4	1877.2	1881.2	1896.9	1924.5	1948.2	1967.9	1989.6
17.5°	1845.7	1861.4	1875.2	1883.1	1891.0	1896.9	1912.7	1948.2	1989.6	2025.1	2056.7
20°	1883.1	1898.9	1914.7	1922.6	1928.5	1932.4	1944.3	1977.8	2031.0	2086.2	2131.6
22.5°	1926.5	1942.3	1960.0	1966.0	1979.8	1979.8	1981.7	2015.3	2080.3	2155.3	2210.5
25°	1973.8	1983.7	1999.5	2009.3	2029.1	2033.0	2038.9	2068.5	2149.3	2234.1	2320.9
27.5°	2029.1	2048.8	2064.5	2076.4	2115.8	2117.8	2113.8	2151.3	2230.2	2334.7	2457.0
30°	2129.6	2151.3	2167.1	2186.8	2238.1	2236.1	2261.7	2301.2	2346.5	2460.9	2624.6
32.5°	2289.3	2291.3	2299.2	2324.8	2397.8	2405.7	2455.0	2526.0	2616.7	2689.6	2863.2
35°	2581.2	2571.3	2547.7	2543.7	2593.0	2597.0	2693.6	2843.4	3040.6	3283.2	3551.3
37.5°	2922.3	2947.9	2920.3	2835.6	2843.4	2845.4	2959.8	3151.1	3517.8	4125.2	4379.5
40°	3521.8	3535.6	3364.0	3229.9	3182.6	3160.9	3220.1	3509.9	3979.2	4770.0	4949.4
42.5°	4050.2	4050.2	3890.5	3683.5	3563.2	3578.9	3561.2	3849.1	4452.5	5330.0	5395.0
45°	4578.7	4560.9	4415.0	4241.5	4030.5	4016.7	3971.3	4192.2	4888.3	5732.2	5734.2
47.5°	5071.7	5113.1	4894.2	4702.9	4488.0	4478.1	4397.3	4568.8	5306.3	6085.2	6032.0
50°	5590.3	5647.4	5373.4	5158.4	4925.7	4939.5	4872.5	4992.8	5722.4	6414.5	6317.9
52.5°	6327.7	6221.3	5893.9	5596.2	5355.6	5395.0	5326.0	5397.0	6154.2	6676.8	6475.6
55°	7118.5	6929.2	6657.0	6158.2	5809.1	5805.2	5753.9	5838.7	6590.0	6976.5	6655.1
57.5°	7542.4	7599.6	7536.5	7132.3	6568.3	6558.4	6250.8	6260.7	6990.3	7232.8	6905.5
60°	8025.5	8096.5	8234.5	7982.1	7700.2	7708.0	6941.0	6712.3	7412.3	7437.9	6925.2
62.5°	8281.9	8289.7	8607.2	8696.0	8924.7	8976.0	8394.3	7264.4	7692.3	7595.6	6958.7
65°	7828.3	7842.1	8453.4	8901.0	9664.1	9733.2	9482.7	8333.1	7901.3	7678.5	6927.2
67.5°	6990.3	7102.7	7548.3	8617.1	10212.3	10222.2	9717.4	9123.9	7974.2	7690.3	6775.4
70°	5858.4	5819.0	6382.9	7666.6	10127.5	10054.6	9614.8	9214.6	7921.0	7528.6	6083.2
72.5°	4344.0	4284.9	4866.6	6164.1	9135.7	9273.7	9155.4	8684.1	7719.9	6925.2	4937.6
75°	2973.6	3042.6	3565.1	4647.7	7587.8	7796.8	8319.3	8274.0	6868.0	5740.1	3379.8
77.5°	2035.0	2064.5	2512.2	3458.7	6014.2	6095.1	6960.7	6684.6	5050.0	3527.7	1127.9
80°	1325.1	1315.2	1717.5	2462.9	4409.1	4399.2	4971.1	4229.7	2721.2	1202.8	155.8
82.5°	739.5	782.8	1029.3	1618.9	2979.5	3011.0	3103.7	2313.0	1047.1	140.0	98.6
85°	416.1	433.8	591.6	916.9	1561.7	1640.6	1384.3	849.9	187.3	76.9	57.2
87.5°	98.6	94.6	189.3	351.0	260.3	282.0	134.1	39.4	19.7	13.8	13.8
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°	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0
2.5°	1820.0	1816.1	1812.2	1804.3	1798.3	1780.6	1782.6	1794.4	1782.6	1802.3	1790.5
5°	1824.0	1818.1	1808.2	1784.5	1766.8	1753.0	1749.1	1747.1	1731.3	1749.1	1741.2
7.5°	1839.8	1833.8	1812.2	1786.5	1760.9	1719.5	1713.6	1705.7	1676.1	1687.9	1678.1
10°	1877.2	1869.3	1831.9	1796.4	1756.9	1701.7	1670.2	1646.5	1613.0	1616.9	1607.1
12.5°	1924.5	1916.7	1873.3	1814.1	1758.9	1682.0	1626.8	1581.4	1532.1	1532.1	1522.3
15°	1979.8	1971.9	1922.6	1853.6	1766.8	1666.2	1583.4	1510.5	1431.6	1421.7	1409.9
17.5°	2054.7	2042.9	1985.7	1896.9	1788.5	1652.4	1540.0	1431.6	1311.3	1273.8	1254.1
20°	2131.6	2117.8	2068.5	1958.1	1818.1	1638.6	1476.9	1329.0	1173.3	1096.4	1082.6
22.5°	2230.2	2226.2	2165.1	2011.3	1827.9	1609.0	1398.1	1214.7	1005.7	899.2	877.5
25°	2346.5	2340.6	2246.0	2052.7	1816.1	1549.9	1285.7	1051.0	816.4	709.9	686.2
27.5°	2484.6	2468.8	2315.0	2062.6	1782.6	1457.2	1141.7	840.0	603.4	512.7	494.9
30°	2630.5	2606.8	2387.9	2064.5	1715.5	1342.8	952.4	617.2	427.9	362.8	362.8
32.5°	2875.0	2794.1	2458.9	2036.9	1618.9	1179.2	725.6	416.1	299.7	274.1	274.1
35°	3399.5	3206.3	2571.3	2001.4	1492.7	976.1	493.0	282.0	250.4	250.4	248.5
37.5°	4186.3	3827.4	2762.6	1942.3	1321.2	725.6	325.4	232.7	238.6	238.6	238.6
40°	4689.1	4312.5	3022.9	1849.6	1124.0	493.0	232.7	220.8	224.8	228.7	228.7
42.5°	5158.4	4734.5	3283.2	1721.4	907.1	315.5	216.9	207.0	209.0	209.0	211.0
45°	5456.2	5048.0	3476.4	1585.4	668.5	224.8	213.0	195.2	189.3	189.3	193.2
47.5°	5732.2	5253.1	3561.2	1405.9	431.8	211.0	203.1	181.4	173.5	171.6	171.6
50°	6008.3	5464.1	3608.5	1193.0	270.1	203.1	187.3	165.6	157.7	155.8	155.8
52.5°	6130.5	5531.1	3502.0	952.4	201.1	195.2	175.5	151.8	140.0	140.0	140.0
55°	6258.7	5655.3	3322.6	682.3	191.3	181.4	161.7	136.1	126.2	130.1	130.1
57.5°	6400.7	5566.6	3131.3	443.7	189.3	163.7	143.9	122.3	114.4	118.3	120.3
60°	6357.3	5588.3	2857.2	297.8	181.4	149.9	130.1	108.5	102.5	102.5	102.5
62.5°	6357.3	5420.7	2407.7	226.8	165.6	138.0	120.3	100.6	90.7	86.8	82.8
65°	6189.7	5024.3	1758.9	197.2	147.9	128.2	108.5	88.7	76.9	71.0	69.0
67.5°	5682.9	4367.7	707.9	179.4	136.1	118.3	100.6	80.8	67.0	59.2	57.2
70°	4831.1	3224.0	203.1	159.7	138.0	110.4	94.6	71.0	59.2	49.3	47.3
72.5°	3580.9	1703.7	165.6	126.2	122.3	94.6	88.7	67.0	51.3	41.4	39.4
75°	1808.2	232.7	142.0	90.7	94.6	98.6	84.8	59.2	47.3	33.5	31.5
77.5°	187.3	138.0	124.2	61.1	67.0	69.0	73.0	55.2	41.4	27.6	25.6
80°	116.3	104.5	122.3	53.2	39.4	47.3	49.3	43.4	33.5	21.7	21.7
82.5°	82.8	88.7	90.7	33.5	29.6	27.6	25.6	25.6	29.6	19.7	19.7
85°	57.2	59.2	37.5	21.7	19.7	17.7	15.8	15.8	13.8	15.8	13.8
87.5°	13.8	11.8	11.8	11.8	9.9	9.9	7.9	7.9	7.9	7.9	9.9
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)