

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: P509430

Luminaire Tested: **VERD-CA2-90-760-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-760-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1250mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12093 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

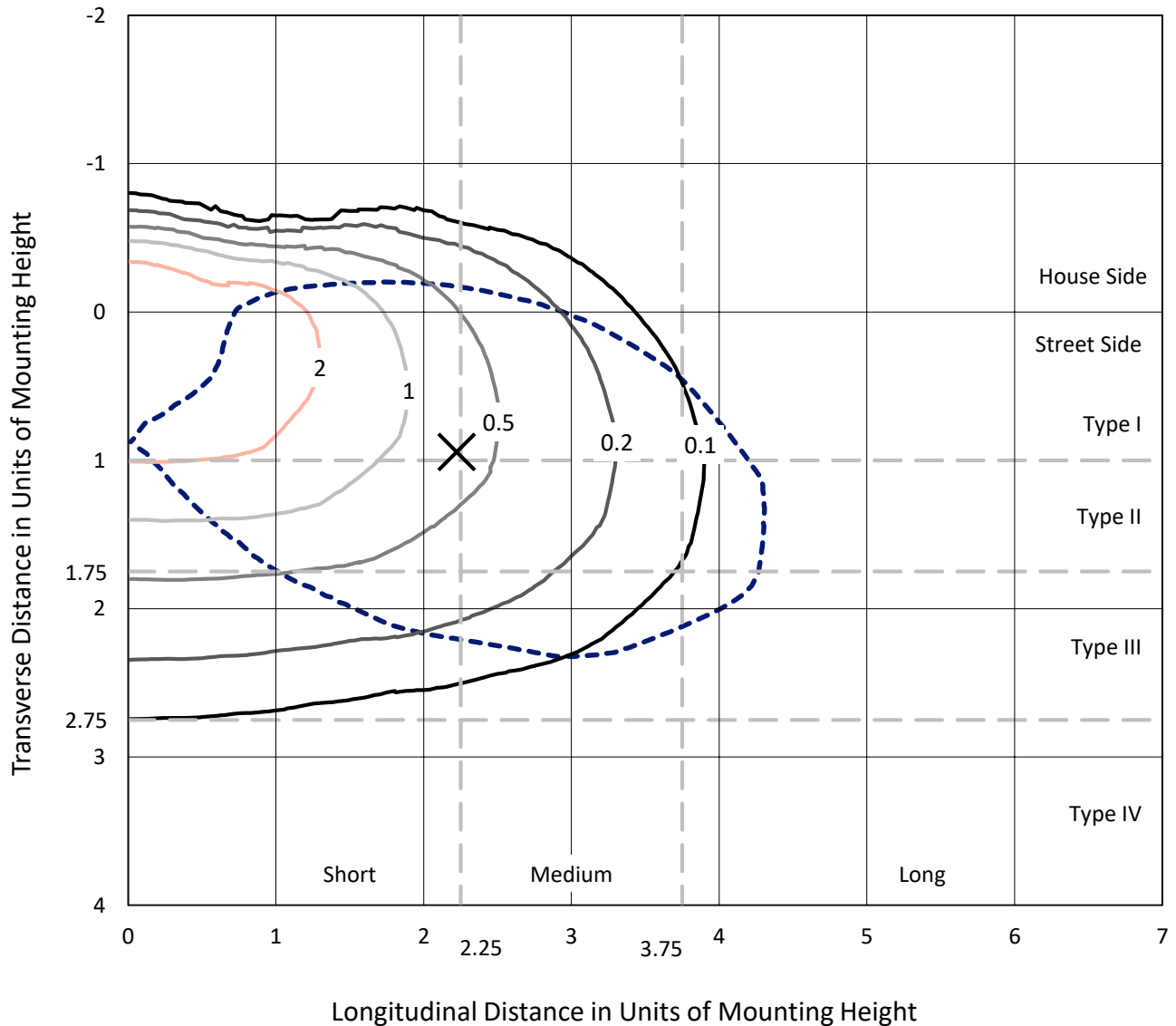
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509430
 CATALOG NUMBER: VERD-CA2-90-760-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

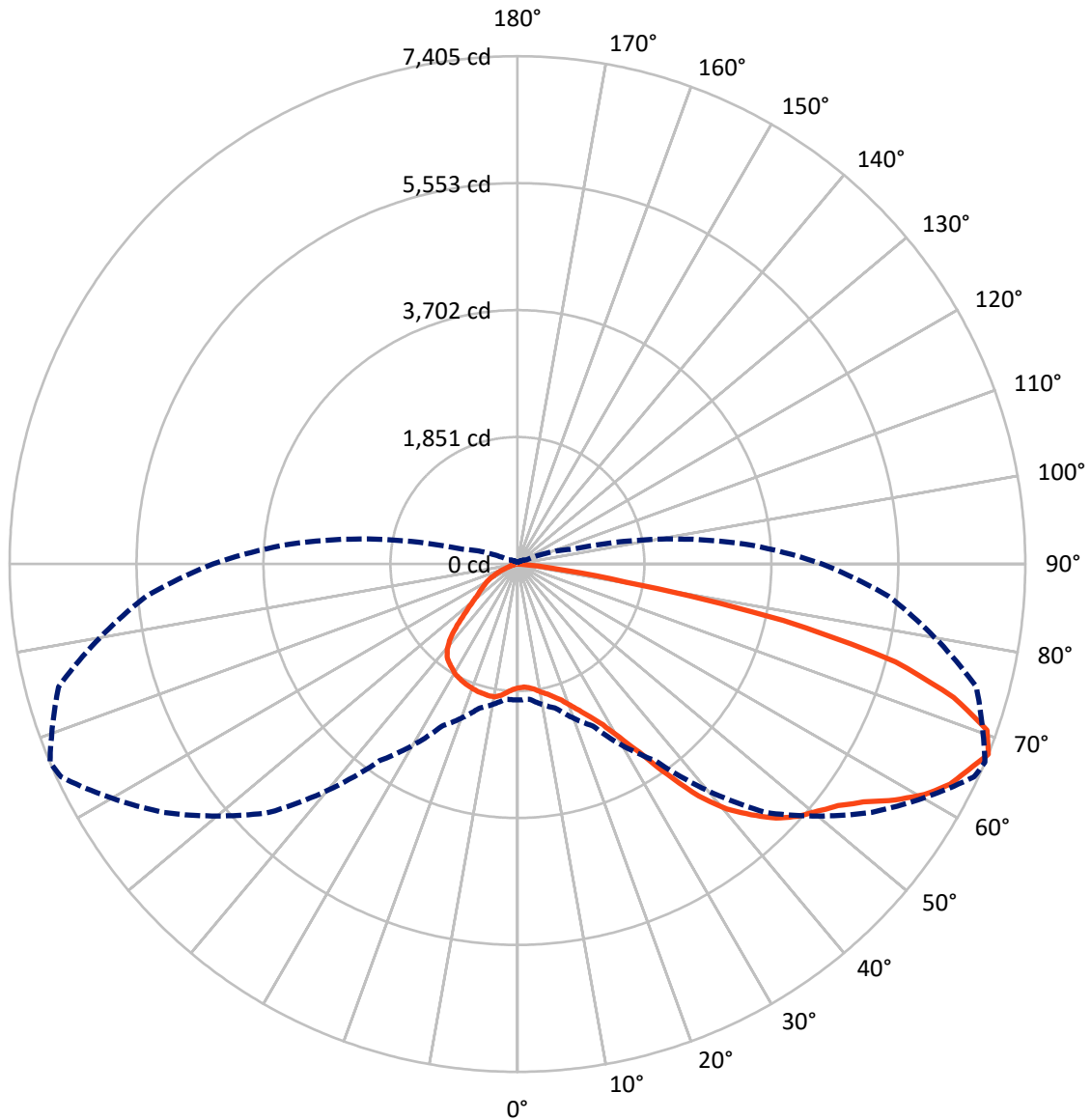
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509430
CATALOG NUMBER: VERD-CA2-90-760-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509430

CATALOG NUMBER: VERD-CA2-90-760-U-T3-HSS

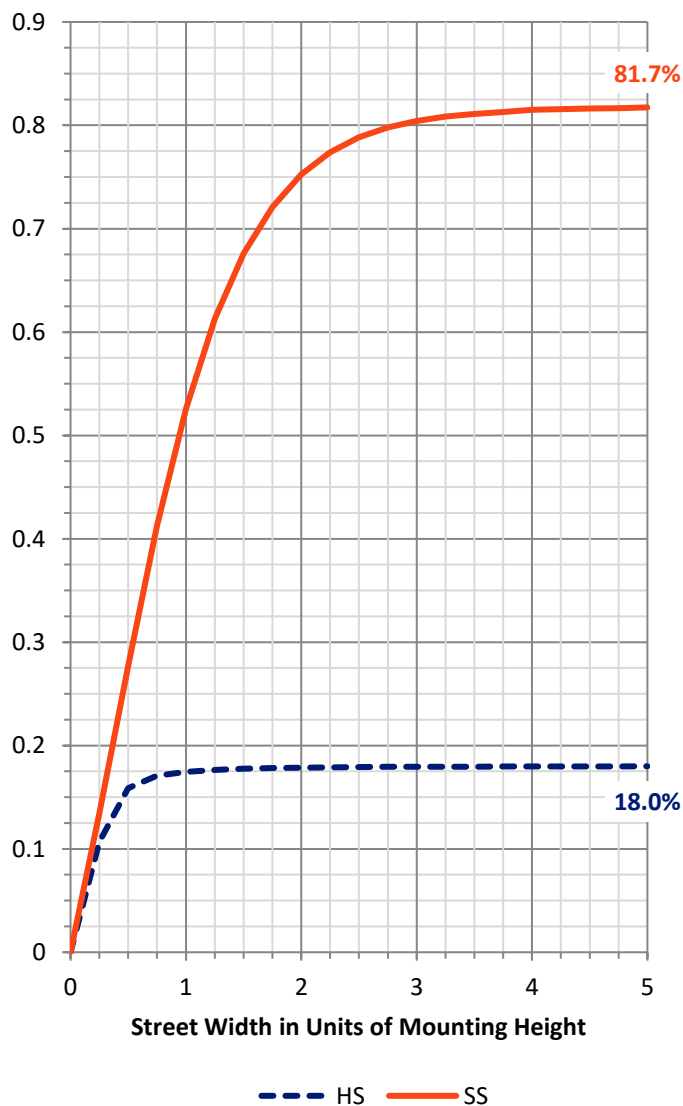
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.4	0.0	2203.4
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	9889.6	0.0	9889.6
	% Fixture	81.8	0.0	81.8
Total	Lumens	12093.0	0.0	12093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	1.5
10°-20°	566.6	4.7
20°-30°	966.8	8.0
30°-40°	1504.8	12.4
40°-50°	2124.3	17.6
50°-60°	2558.5	21.2
60°-70°	2644.0	21.9
70°-80°	1456.5	12.0
80°-90°	90.8	0.8
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°	12093.0	100.0
0°-180°	12093.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509430

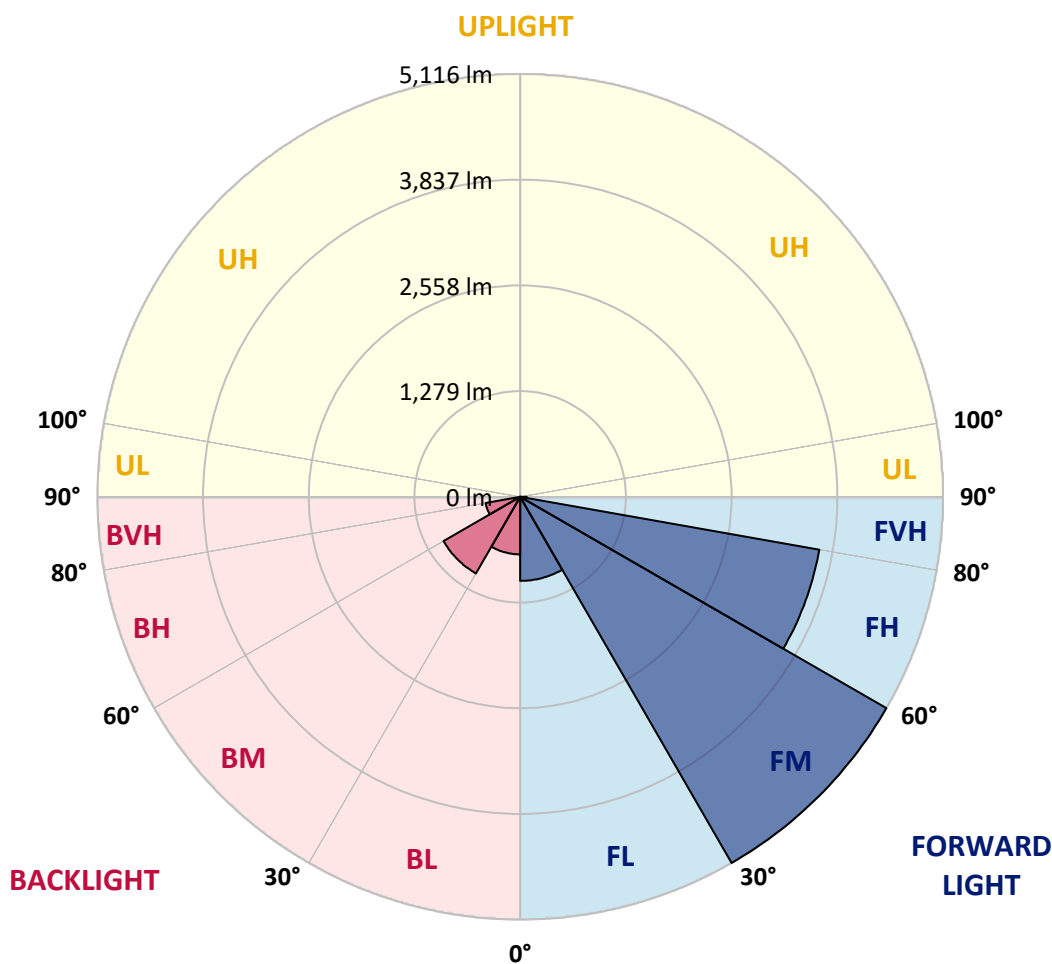
CATALOG NUMBER: VERD-CA2-90-760-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.5	8.4			
FM (30°-60°)	5116.4	42.3			
FH (60°-80°)	3675.8	30.4			G2/5000
FVH (80°-90°)	79.9	0.7			G1/100
BL (0°-30°)	696.7	5.8	B2/1000		
BM (30°-60°)	1071.1	8.9	B2/2500		
BH (60°-80°)	424.7	3.5	B1/500		G1/500
BVH (80°-90°)	10.9	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-G2

Type III Short





REPORT NUMBER: P509430

CATALOG NUMBER: VERD-CA2-90-760-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6
2.5°	1788.8	1807.0	1807.0	1801.4	1804.2	1791.6	1783.2	1793.0	1795.8	1804.2	1815.4
5°	1823.8	1844.8	1843.4	1833.6	1825.2	1814.0	1802.8	1811.2	1812.6	1815.4	1829.4
7.5°	1898.0	1917.6	1909.2	1899.4	1895.2	1870.0	1846.2	1844.8	1847.6	1856.0	1871.4
10°	1994.6	2010.0	2007.2	1991.8	1980.6	1942.8	1909.2	1896.6	1898.0	1900.8	1927.4
12.5°	2103.8	2124.8	2109.4	2088.4	2068.8	2014.2	1968.0	1949.8	1947.0	1954.0	1976.4
15°	2211.5	2233.9	2222.7	2210.1	2165.3	2105.2	2046.4	2017.0	2014.2	2014.2	2028.2
17.5°	2352.9	2361.3	2354.3	2336.1	2285.7	2210.1	2140.2	2096.8	2089.8	2094.0	2096.8
20°	2509.7	2525.1	2516.7	2497.1	2424.3	2343.1	2254.9	2203.1	2198.9	2203.1	2176.5
22.5°	2700.0	2705.6	2701.4	2669.2	2603.5	2495.7	2379.5	2320.7	2320.7	2324.9	2270.3
25°	2862.4	2896.0	2886.2	2847.0	2770.0	2676.2	2536.3	2463.5	2467.7	2470.5	2394.9
27.5°	3051.4	3079.4	3072.4	3043.0	2992.6	2873.6	2705.6	2658.0	2653.8	2649.6	2532.1
30°	3231.9	3252.9	3266.9	3259.9	3219.3	3107.4	2957.6	2922.6	2933.8	2925.4	2722.4
32.5°	3378.9	3415.3	3454.5	3462.9	3451.7	3352.3	3243.1	3261.3	3275.3	3374.7	3252.9
35°	3504.9	3544.1	3608.4	3675.6	3688.2	3649.0	3594.4	3727.4	3768.0	3971.0	3842.2
37.5°	3636.4	3670.0	3734.4	3840.8	3910.8	3931.8	3985.0	4194.9	4292.9	4467.9	4228.5
40°	3696.6	3730.2	3842.2	3976.6	4122.1	4239.7	4346.1	4589.6	4698.8	4752.0	4441.3
42.5°	3636.4	3668.6	3849.2	4102.5	4299.9	4560.2	4680.6	4924.2	4997.0	4991.4	4703.0
45°	3577.7	3608.4	3797.4	4134.7	4460.9	4855.6	4957.8	5230.7	5283.9	5216.7	4854.2
47.5°	3502.1	3544.1	3740.0	4115.1	4605.0	5122.9	5216.7	5449.1	5496.7	5397.3	5027.7
50°	3409.7	3446.1	3674.2	4084.3	4700.2	5323.1	5422.5	5653.4	5666.0	5573.6	5184.5
52.5°	3303.3	3322.9	3570.7	4022.8	4782.8	5470.1	5583.4	5825.6	5855.0	5829.8	5370.7
55°	3145.1	3180.1	3446.1	3926.2	4788.4	5547.0	5708.0	6069.1	6122.3	6063.5	5484.1
57.5°	2978.6	3016.4	3292.1	3791.8	4705.8	5596.0	5934.8	6385.5	6490.4	6301.5	5576.4
60°	2795.2	2828.8	3100.4	3593.0	4558.8	5666.0	6168.5	6756.4	6822.2	6504.4	5638.0
62.5°	2582.5	2609.1	2868.0	3352.3	4333.5	5647.8	6370.1	7054.5	7075.5	6686.4	5632.4
65°	2323.5	2322.1	2562.9	3016.4	3964.0	5502.2	6406.5	7204.3	7229.5	6804.0	5582.0
67.5°	1982.0	1977.8	2179.3	2606.3	3497.9	5122.9	6309.9	7344.3	7404.5	6927.2	5435.1
70°	1553.7	1559.3	1711.8	2092.6	2838.6	4544.8	6055.1	7250.5	7263.1	6690.6	5054.3
72.5°	1098.8	1096.0	1199.5	1457.1	2098.2	3548.3	5321.7	6610.8	6650.0	6105.5	4403.5
75°	503.9	524.9	783.8	890.2	1266.7	2415.9	4378.3	5617.0	5692.6	5255.9	3433.5
77.5°	93.8	96.6	168.0	338.7	495.5	872.0	2616.1	3804.4	3962.6	3581.9	1934.4
80°	74.2	75.6	99.4	162.4	207.2	391.9	860.8	1567.7	1602.7	1396.9	697.1
82.5°	54.6	56.0	74.2	105.0	96.6	169.4	358.3	456.3	484.3	450.7	277.1
85°	32.2	33.6	43.4	51.8	50.4	67.2	60.2	54.6	49.0	40.6	35.0
87.5°	8.4	11.2	18.2	18.2	14.0	12.6	11.2	9.8	11.2	9.8	9.8
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: P509430

CATALOG NUMBER: VERD-CA2-90-760-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6	1805.6
2.5°	1818.2	1816.8	1821.0	1832.2	1842.0	1843.4	1857.4	1875.6	1867.2	1891.0	1882.6
5°	1837.8	1842.0	1857.4	1875.6	1892.4	1906.4	1927.4	1958.2	1948.4	1970.8	1962.4
7.5°	1882.6	1889.6	1913.4	1931.6	1951.2	1947.0	1965.2	1983.4	1961.0	1984.8	1973.6
10°	1935.8	1944.2	1958.2	1965.2	1959.6	1956.8	1952.6	1949.8	1920.4	1937.2	1930.2
12.5°	1983.4	1984.8	1980.6	1962.4	1949.8	1916.2	1900.8	1893.8	1849.0	1861.6	1853.2
15°	2029.6	2010.0	1989.0	1947.0	1912.0	1860.2	1826.6	1797.2	1755.2	1772.0	1755.2
17.5°	2080.0	2050.6	1996.0	1934.4	1863.0	1787.4	1732.8	1685.2	1622.3	1619.5	1613.9
20°	2144.4	2101.0	2012.8	1912.0	1809.8	1696.4	1609.7	1529.9	1434.7	1422.1	1396.9
22.5°	2225.5	2161.1	2038.0	1882.6	1744.0	1601.3	1454.3	1322.7	1202.3	1164.6	1150.6
25°	2319.3	2239.5	2052.0	1856.0	1681.0	1462.7	1262.5	1091.8	950.4	909.8	898.6
27.5°	2436.9	2338.9	2073.0	1816.8	1580.3	1293.3	1033.0	844.0	718.0	652.3	642.5
30°	2599.3	2449.5	2102.4	1777.6	1458.5	1094.6	800.6	580.9	461.9	422.7	415.7
32.5°	3041.6	2712.6	2134.6	1707.6	1297.5	873.4	531.9	370.9	291.1	258.9	256.1
35°	3602.8	3194.1	2252.1	1627.9	1103.0	606.1	330.3	221.2	177.8	165.2	165.2
37.5°	3965.4	3567.9	2448.1	1515.9	846.8	370.9	198.8	144.2	135.8	134.4	134.4
40°	4155.7	3733.0	2589.5	1361.9	566.9	215.6	140.0	124.6	121.8	119.0	119.0
42.5°	4397.9	3874.4	2711.2	1153.4	328.9	151.2	123.2	113.4	109.2	106.4	106.4
45°	4532.3	4028.4	2634.2	905.6	187.6	135.8	113.4	102.2	98.0	98.0	98.0
47.5°	4663.8	4175.3	2536.3	650.9	159.6	124.6	106.4	95.2	91.0	93.8	93.8
50°	4813.6	4274.7	2380.9	487.1	151.2	116.2	96.6	86.8	84.0	88.2	88.2
52.5°	4953.6	4284.5	2131.8	389.1	140.0	107.8	89.6	79.8	77.0	79.8	79.8
55°	4994.2	4253.7	2060.4	309.3	133.0	99.4	84.0	74.2	67.2	67.2	65.8
57.5°	4984.4	4193.5	1886.8	261.7	124.6	91.0	77.0	65.8	57.4	54.6	54.6
60°	4950.8	4109.5	1703.4	228.2	116.2	84.0	68.6	56.0	47.6	44.8	44.8
62.5°	4908.8	3951.4	1444.5	198.8	107.8	81.2	57.4	46.2	40.6	37.8	37.8
65°	4732.4	3705.0	1156.2	169.4	99.4	71.4	50.4	40.6	35.0	32.2	32.2
67.5°	4439.9	3329.9	835.6	144.2	92.4	60.2	44.8	35.0	29.4	28.0	26.6
70°	4003.2	2812.0	517.9	124.6	79.8	54.6	39.2	30.8	26.6	22.4	22.4
72.5°	3336.9	2201.7	271.5	98.0	63.0	46.2	35.0	28.0	22.4	19.6	18.2
75°	2345.9	1357.7	196.0	75.6	43.4	37.8	29.4	23.8	19.6	16.8	15.4
77.5°	1132.4	467.5	137.2	56.0	30.8	28.0	22.4	19.6	15.4	14.0	14.0
80°	414.3	265.9	98.0	40.6	25.2	22.4	16.8	15.4	12.6	11.2	11.2
82.5°	186.2	126.0	56.0	26.6	18.2	16.8	12.6	9.8	9.8	9.8	9.8
85°	30.8	26.6	18.2	12.6	9.8	8.4	8.4	7.0	7.0	7.0	7.0
87.5°	8.4	8.4	7.0	7.0	5.6	4.2	2.8	2.8	2.8	4.2	4.2
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)