

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: P509374

Luminaire Tested: **VERD-CA2-80-750-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509374
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-CA2-80-750-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1100mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11081 lumens
Efficiency: N/A
Efficacy: 134.5 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

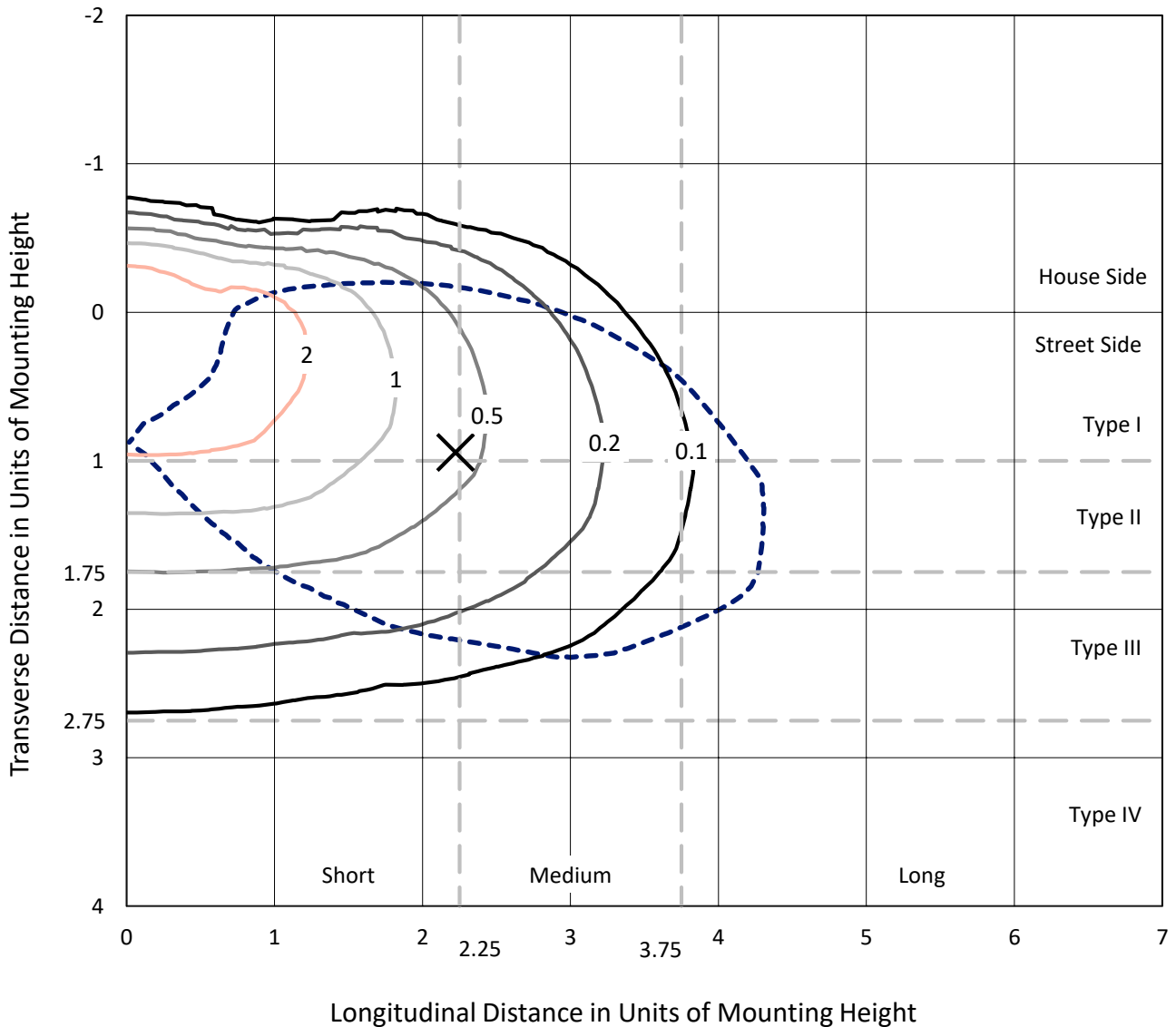
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

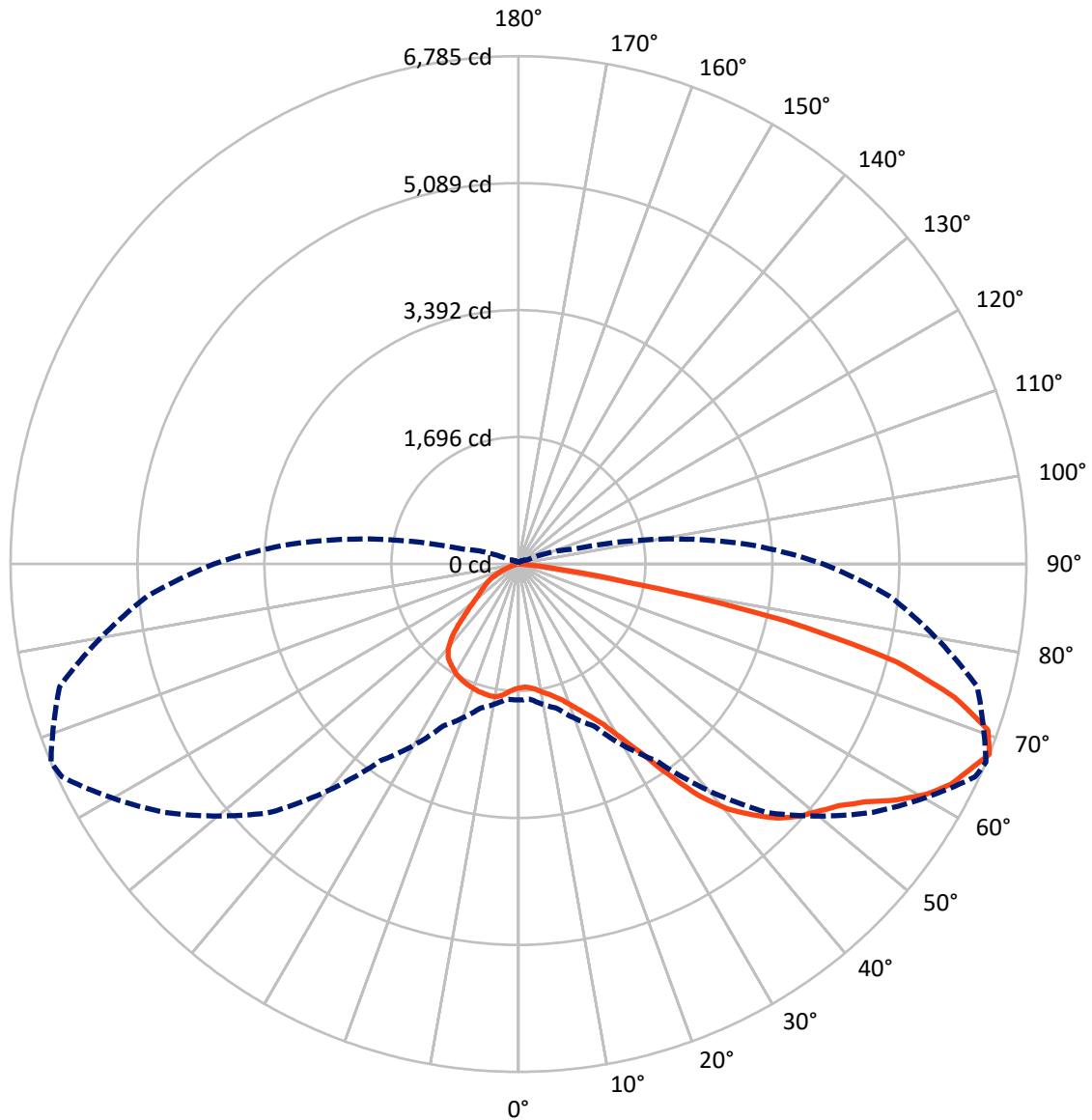
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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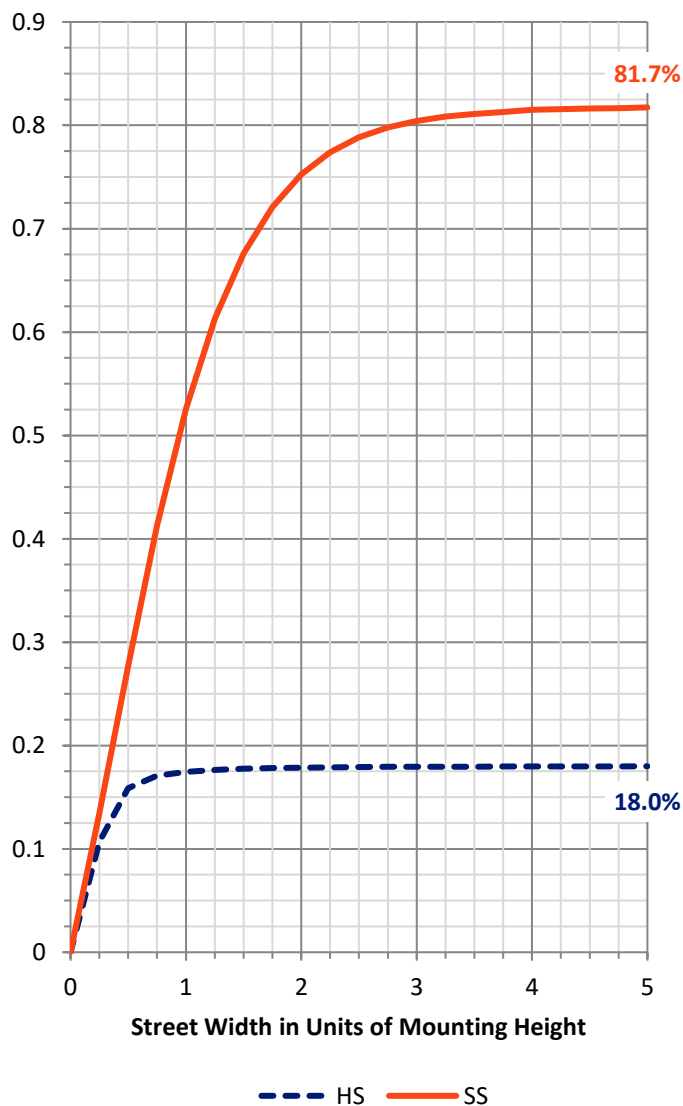
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2019.0	0.0	2019.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	9062.0	0.0	9062.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	11081.0	0.0	11081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	1.5
10°-20°	519.1	4.7
20°-30°	885.9	8.0
30°-40°	1378.9	12.4
40°-50°	1946.5	17.6
50°-60°	2344.3	21.2
60°-70°	2422.7	21.9
70°-80°	1334.6	12.0
80°-90°	83.2	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°	11081.0	100.0
0°-180°	11081.0	100.0

Coefficient of Utilization



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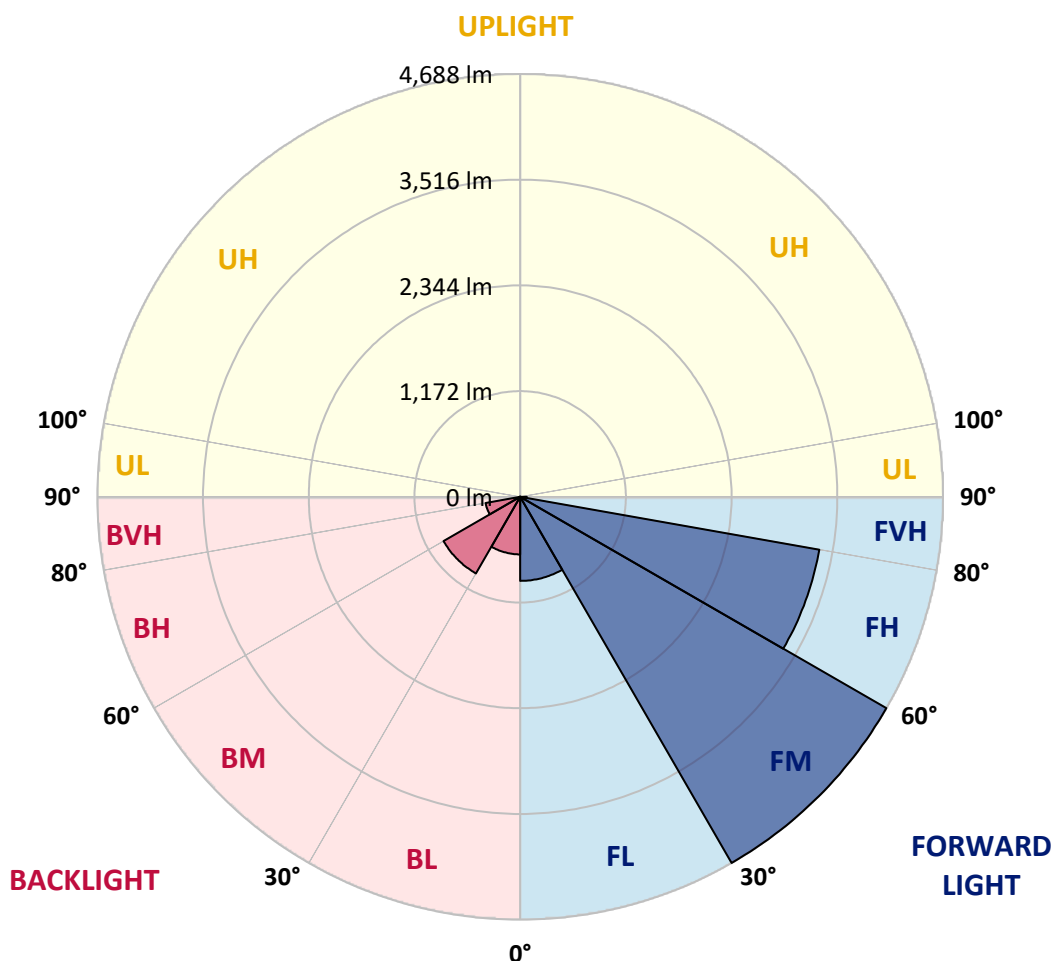
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.4	8.4			
FM	(30°-60°)	4688.2	42.3			
FH	(60°-80°)	3368.2	30.4			G2/5000
FVH	(80°-90°)	73.2	0.7			G1/100
BL	(0°-30°)	638.4	5.8	B2/1000		
BM	(30°-60°)	981.5	8.9	B1/1000		
BH	(60°-80°)	389.2	3.5	B1/500		G1/500
BVH	(80°-90°)	10.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1639.1	1655.8	1655.8	1650.7	1653.2	1641.7	1634.0	1643.0	1645.5	1653.2	1663.5
5°	1671.2	1690.4	1689.1	1680.2	1672.5	1662.2	1652.0	1659.6	1660.9	1663.5	1676.3
7.5°	1739.2	1757.1	1749.4	1740.5	1736.6	1713.5	1691.7	1690.4	1693.0	1700.7	1714.8
10°	1827.7	1841.8	1839.2	1825.1	1814.8	1780.2	1749.4	1737.9	1739.2	1741.7	1766.1
12.5°	1927.7	1946.9	1932.8	1913.6	1895.6	1845.6	1803.3	1786.6	1784.1	1790.5	1811.0
15°	2026.5	2047.0	2036.7	2025.2	1984.1	1929.0	1875.1	1848.2	1845.6	1845.6	1858.4
17.5°	2156.0	2163.7	2157.3	2140.6	2094.4	2025.2	1961.1	1921.3	1914.9	1918.7	1921.3
20°	2299.7	2313.8	2306.1	2288.1	2221.4	2147.0	2066.2	2018.8	2014.9	2018.8	1994.4
22.5°	2474.1	2479.2	2475.4	2445.9	2385.6	2286.8	2180.4	2126.5	2126.5	2130.4	2080.3
25°	2622.9	2653.6	2644.7	2608.8	2538.2	2452.3	2324.0	2257.3	2261.2	2263.7	2194.5
27.5°	2796.0	2821.7	2815.2	2788.3	2742.1	2633.1	2479.2	2435.6	2431.8	2427.9	2320.2
30°	2961.5	2980.7	2993.5	2987.1	2949.9	2847.3	2710.1	2678.0	2688.3	2680.6	2494.6
32.5°	3096.1	3129.5	3165.4	3173.1	3162.8	3071.8	2971.7	2988.4	3001.2	3092.3	2980.7
35°	3211.6	3247.5	3306.5	3368.0	3379.6	3343.7	3293.6	3415.5	3452.7	3638.7	3520.7
37.5°	3332.1	3362.9	3421.9	3519.4	3583.5	3602.7	3651.5	3843.9	3933.7	4094.0	3874.7
40°	3387.3	3418.1	3520.7	3643.8	3777.2	3884.9	3982.4	4205.6	4305.6	4354.3	4069.6
42.5°	3332.1	3361.6	3527.1	3759.2	3940.1	4178.6	4288.9	4512.1	4578.8	4573.7	4309.4
45°	3278.3	3306.5	3479.6	3788.7	4087.6	4449.2	4542.9	4793.0	4841.7	4780.1	4448.0
47.5°	3209.0	3247.5	3427.0	3770.8	4219.7	4694.2	4780.1	4993.1	5036.7	4945.6	4607.0
50°	3124.3	3157.7	3366.8	3742.5	4306.9	4877.6	4968.7	5180.3	5191.9	5107.2	4750.7
52.5°	3026.9	3044.8	3271.8	3686.1	4382.6	5012.3	5116.2	5338.1	5365.0	5341.9	4921.2
55°	2881.9	2914.0	3157.7	3597.6	4387.7	5082.8	5230.3	5561.2	5610.0	5556.1	5025.1
57.5°	2729.3	2763.9	3016.6	3474.5	4312.0	5127.7	5438.1	5851.1	5947.3	5774.1	5109.8
60°	2561.3	2592.1	2840.9	3292.4	4177.3	5191.9	5652.3	6191.0	6251.3	5960.1	5166.2
62.5°	2366.3	2390.7	2628.0	3071.8	3970.8	5175.2	5837.0	6464.2	6483.4	6126.9	5161.1
65°	2129.1	2127.8	2348.4	2763.9	3632.2	5041.8	5870.3	6601.4	6624.5	6234.6	5114.9
67.5°	1816.1	1812.3	1997.0	2388.2	3205.2	4694.2	5781.8	6729.7	6784.8	6347.5	4980.2
70°	1423.7	1428.8	1568.6	1917.4	2601.1	4164.5	5548.4	6643.7	6655.3	6130.7	4631.4
72.5°	1006.8	1004.3	1099.2	1335.2	1922.6	3251.3	4876.3	6057.6	6093.5	5594.6	4035.0
75°	461.7	481.0	718.2	815.7	1160.7	2213.7	4011.9	5147.0	5216.2	4816.1	3146.2
77.5°	85.9	88.5	153.9	310.4	454.0	799.0	2397.1	3486.0	3631.0	3282.1	1772.5
80°	68.0	69.3	91.1	148.8	189.8	359.1	788.8	1436.5	1468.5	1280.0	638.7
82.5°	50.0	51.3	68.0	96.2	88.5	155.2	328.3	418.1	443.8	413.0	253.9
85°	29.5	30.8	39.8	47.5	46.2	61.6	55.2	50.0	44.9	37.2	32.1
87.5°	7.7	10.3	16.7	16.7	12.8	11.5	10.3	9.0	10.3	9.0	9.0
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°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1666.1	1664.8	1668.6	1678.9	1687.9	1689.1	1702.0	1718.6	1711.0	1732.8	1725.1
5°	1684.0	1687.9	1702.0	1718.6	1734.0	1746.9	1766.1	1794.3	1785.3	1805.9	1798.2
7.5°	1725.1	1731.5	1753.3	1770.0	1787.9	1784.1	1800.7	1817.4	1796.9	1818.7	1808.4
10°	1773.8	1781.5	1794.3	1800.7	1795.6	1793.0	1789.2	1786.6	1759.7	1775.1	1768.7
12.5°	1817.4	1818.7	1814.8	1798.2	1786.6	1755.8	1741.7	1735.3	1694.3	1705.8	1698.1
15°	1859.7	1841.8	1822.5	1784.1	1752.0	1704.5	1673.8	1646.8	1608.3	1623.7	1608.3
17.5°	1905.9	1879.0	1828.9	1772.5	1707.1	1637.8	1587.8	1544.2	1486.5	1483.9	1478.8
20°	1964.9	1925.1	1844.3	1752.0	1658.4	1554.5	1475.0	1401.9	1314.6	1303.1	1280.0
22.5°	2039.3	1980.3	1867.4	1725.1	1598.1	1467.3	1332.6	1212.0	1101.7	1067.1	1054.3
25°	2125.2	2052.1	1880.3	1700.7	1540.4	1340.3	1156.9	1000.4	870.9	833.7	823.4
27.5°	2233.0	2143.2	1899.5	1664.8	1448.0	1185.1	946.5	773.4	658.0	597.7	588.7
30°	2381.7	2244.5	1926.4	1628.9	1336.4	1003.0	733.6	532.3	423.2	387.3	380.9
32.5°	2787.0	2485.6	1955.9	1564.7	1188.9	800.3	487.4	339.9	266.8	237.3	234.7
35°	3301.3	2926.8	2063.7	1491.6	1010.7	555.4	302.7	202.6	162.9	151.3	151.3
37.5°	3633.5	3269.3	2243.2	1389.0	776.0	339.9	182.1	132.1	124.4	123.1	123.1
40°	3808.0	3420.6	2372.8	1247.9	519.4	197.5	128.3	114.1	111.6	109.0	109.0
42.5°	4029.8	3550.2	2484.3	1056.8	301.4	138.5	112.9	103.9	100.0	97.5	97.5
45°	4153.0	3691.2	2413.8	829.8	171.9	124.4	103.9	93.6	89.8	89.8	89.8
47.5°	4273.5	3825.9	2324.0	596.4	146.2	114.1	97.5	87.2	83.4	85.9	85.9
50°	4410.8	3917.0	2181.7	446.3	138.5	106.5	88.5	79.5	77.0	80.8	80.8
52.5°	4539.0	3926.0	1953.4	356.6	128.3	98.8	82.1	73.1	70.5	73.1	73.1
55°	4576.2	3897.7	1887.9	283.4	121.8	91.1	77.0	68.0	61.6	61.6	60.3
57.5°	4567.2	3842.6	1728.9	239.8	114.1	83.4	70.5	60.3	52.6	50.0	50.0
60°	4536.5	3765.6	1560.9	209.1	106.5	77.0	62.8	51.3	43.6	41.0	41.0
62.5°	4498.0	3620.7	1323.6	182.1	98.8	74.4	52.6	42.3	37.2	34.6	34.6
65°	4336.4	3395.0	1059.4	155.2	91.1	65.4	46.2	37.2	32.1	29.5	29.5
67.5°	4068.3	3051.2	765.7	132.1	84.6	55.2	41.0	32.1	26.9	25.7	24.4
70°	3668.2	2576.7	474.6	114.1	73.1	50.0	35.9	28.2	24.4	20.5	20.5
72.5°	3057.7	2017.5	248.8	89.8	57.7	42.3	32.1	25.7	20.5	18.0	16.7
75°	2149.6	1244.1	179.6	69.3	39.8	34.6	26.9	21.8	18.0	15.4	14.1
77.5°	1037.6	428.4	125.7	51.3	28.2	25.7	20.5	18.0	14.1	12.8	12.8
80°	379.6	243.7	89.8	37.2	23.1	20.5	15.4	14.1	11.5	10.3	10.3
82.5°	170.6	115.4	51.3	24.4	16.7	15.4	11.5	9.0	9.0	9.0	9.0
85°	28.2	24.4	16.7	11.5	9.0	7.7	7.7	6.4	6.4	6.4	6.4
87.5°	7.7	7.7	6.4	6.4	5.1	3.8	2.6	2.6	2.6	3.8	3.8
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)