

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: P509324

Luminaire Tested: **VERD-CA2-70-750-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-750-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 980mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9743 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

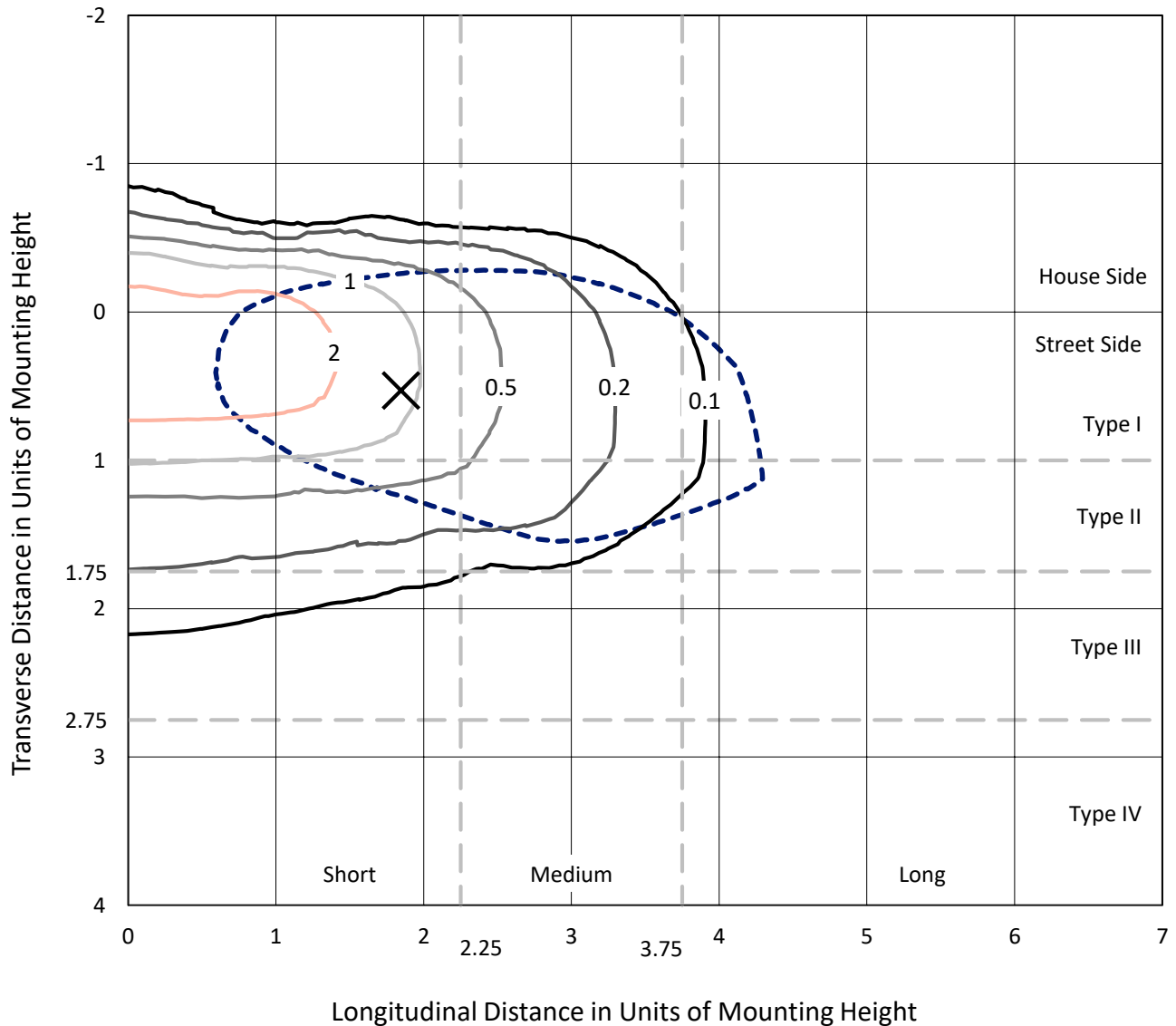
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

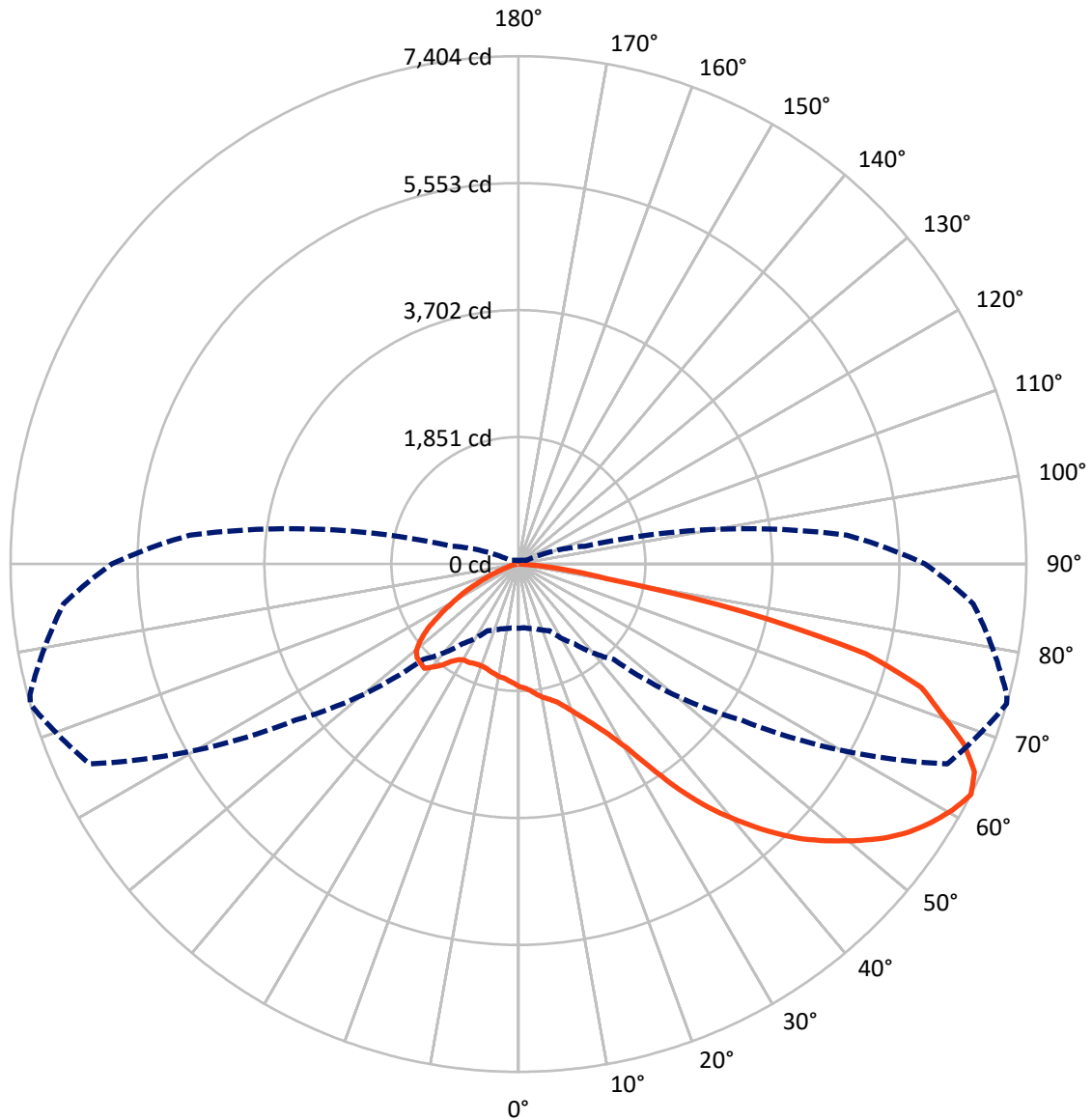
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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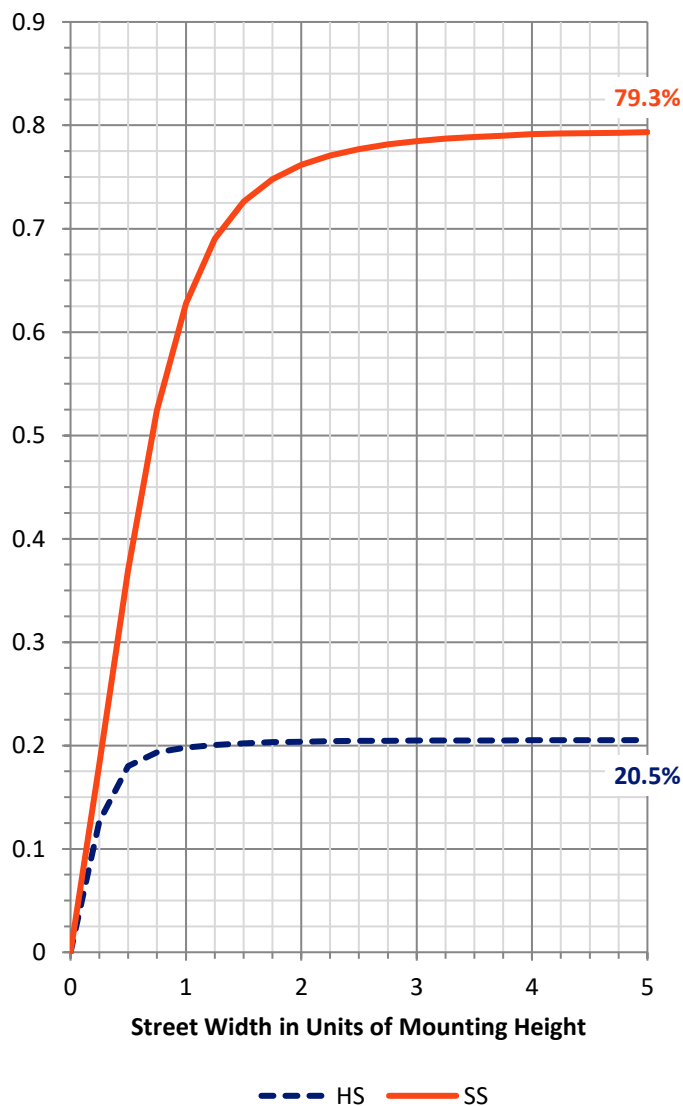
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2023.2	0.0	2023.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7719.8	0.0	7719.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	9743.0	0.0	9743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.7
10°-20°	514.2	5.3
20°-30°	868.2	8.9
30°-40°	1291.3	13.3
40°-50°	1747.7	17.9
50°-60°	2010.7	20.6
60°-70°	1940.9	19.9
70°-80°	1098.9	11.3
80°-90°	100.8	1.0
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°	9743.0	100.0
0°-180°	9743.0	100.0

Coefficient of Utilization



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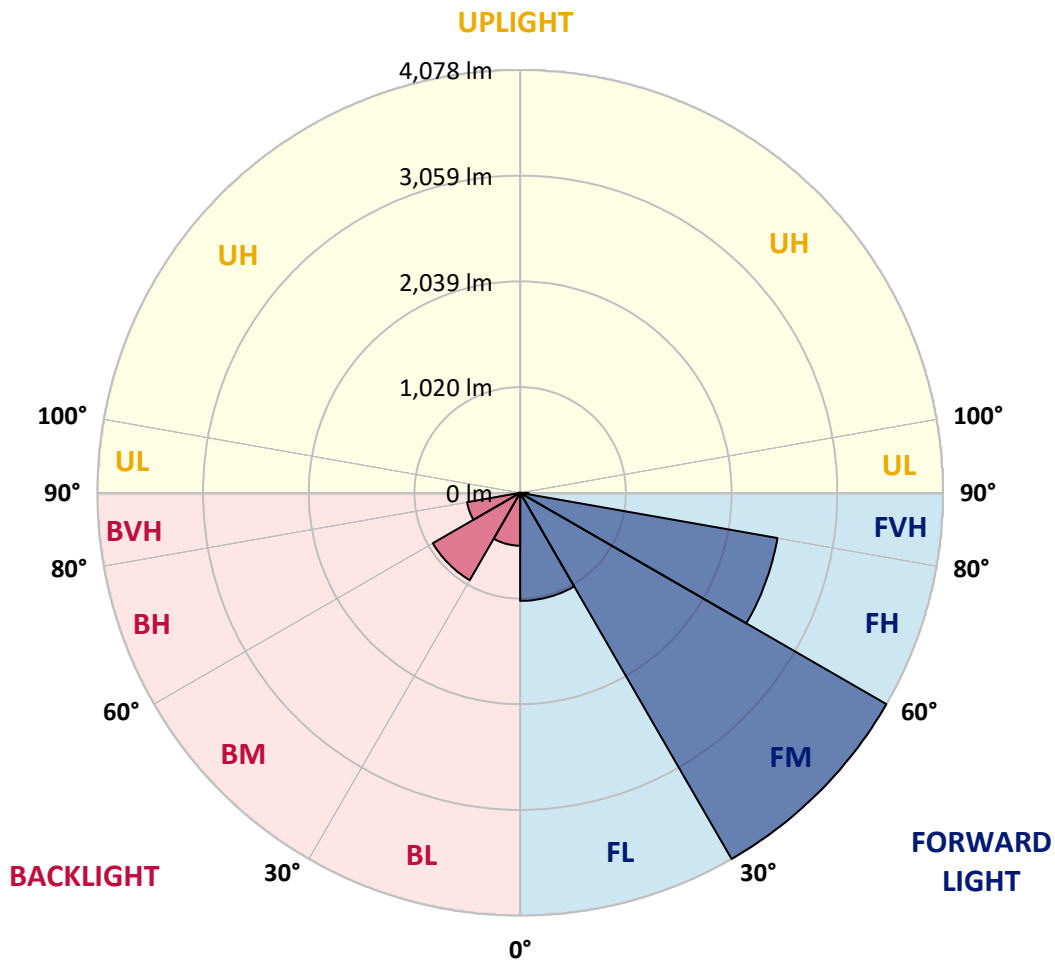
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.5	10.7			
FM (30°-60°)	4078.2	41.9			
FH (60°-80°)	2519.7	25.9			G2/5000
FVH (80°-90°)	79.4	0.8			G1/100
BL (0°-30°)	510.1	5.2	B2/1000		
BM (30°-60°)	971.6	10.0	B1/1000		
BH (60°-80°)	520.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	21.4	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8
2.5°	1947.2	1934.5	1924.0	1918.2	1902.0	1888.0	1860.2	1831.1	1811.4	1810.2	1791.6
5°	2028.5	2027.4	2004.1	1999.5	1977.4	1970.5	1942.6	1900.8	1852.0	1846.2	1796.3
7.5°	2135.3	2122.6	2097.0	2086.6	2061.0	2042.5	2005.3	1965.8	1917.1	1911.2	1824.2
10°	2238.7	2231.7	2216.6	2217.8	2181.8	2147.0	2091.2	2023.9	1977.4	1970.5	1863.6
12.5°	2358.3	2336.2	2310.7	2296.7	2260.8	2238.7	2185.3	2097.0	2023.9	2016.9	1910.1
15°	2440.7	2429.1	2405.9	2396.6	2361.8	2325.8	2264.2	2195.7	2085.4	2078.5	1957.7
17.5°	2529.0	2523.2	2496.5	2490.7	2457.0	2414.0	2366.4	2277.0	2180.6	2169.0	2014.6
20°	2588.2	2577.7	2574.3	2573.1	2563.8	2537.1	2476.7	2407.1	2300.2	2279.3	2087.7
22.5°	2667.2	2656.7	2661.3	2666.0	2678.8	2667.2	2627.7	2545.2	2439.6	2421.0	2202.7
25°	2675.3	2668.3	2699.7	2764.7	2790.2	2803.0	2772.8	2709.0	2606.8	2582.4	2339.7
27.5°	2697.3	2686.9	2720.6	2789.1	2904.0	2923.8	2929.6	2899.4	2813.5	2799.5	2525.5
30°	2657.9	2650.9	2703.1	2820.4	2949.3	3060.8	3103.7	3145.5	3106.1	3081.7	2784.4
32.5°	2561.5	2566.1	2634.6	2790.2	3028.3	3200.1	3311.6	3459.1	3529.9	3525.2	3243.1
35°	2421.0	2418.7	2533.6	2753.1	3035.2	3331.3	3539.2	3838.8	4037.3	4023.4	3725.0
37.5°	2301.4	2295.6	2425.6	2659.0	3041.0	3435.8	3806.2	4253.3	4505.2	4491.3	4118.6
40°	2155.1	2164.4	2280.5	2549.9	2992.3	3513.6	4038.5	4656.2	4914.0	4914.0	4526.1
42.5°	2007.6	2015.8	2130.7	2397.8	2921.4	3570.5	4256.8	5058.0	5320.4	5326.2	4806.0
45°	1878.7	1882.2	1986.7	2227.1	2793.7	3579.8	4457.6	5460.9	5701.2	5686.1	5125.3
47.5°	1652.3	1690.6	1854.4	2073.8	2619.5	3539.2	4627.2	5819.7	6028.7	5997.3	5429.5
50°	1316.7	1316.7	1543.2	1927.5	2419.8	3431.2	4760.7	6147.1	6339.9	6310.8	5695.4
52.5°	1209.9	1212.2	1281.9	1722.0	2217.8	3245.4	4837.3	6472.2	6645.2	6625.5	5947.4
55°	1153.0	1156.5	1189.0	1395.7	2034.3	2960.9	4839.7	6724.2	6904.2	6860.1	6159.9
57.5°	1067.1	1061.3	1129.8	1243.6	1819.5	2594.0	4725.9	6919.3	7105.1	7071.4	6334.1
60°	1006.7	997.4	1043.9	1146.1	1588.4	2214.3	4422.8	7060.9	7276.9	7296.6	6504.7
62.5°	935.9	932.4	976.5	1072.9	1417.8	1965.8	3967.6	6896.0	7403.5	7372.1	6655.7
65°	865.1	858.1	899.9	975.4	1252.9	1762.6	3509.0	6652.2	7305.9	7333.8	6685.9
67.5°	772.2	771.0	810.5	866.2	1072.9	1535.0	2844.8	6331.7	7004.0	6984.3	6411.9
70°	659.5	659.5	699.0	747.8	896.4	1309.8	2184.1	5782.5	6539.6	6654.5	5942.7
72.5°	533.0	535.3	574.8	630.5	739.7	1067.1	1610.5	5028.9	6136.7	5952.0	5280.9
75°	284.5	255.5	450.5	507.4	596.8	851.1	1101.9	3269.8	5233.3	5105.6	4381.0
77.5°	68.5	72.0	141.7	263.6	318.2	471.4	542.3	1514.1	3374.3	3577.5	3124.6
80°	45.3	49.9	76.6	186.9	212.5	250.8	214.8	659.5	1308.6	1394.5	1813.7
82.5°	23.2	25.5	47.6	74.3	75.5	65.0	81.3	332.1	692.0	750.1	872.0
85°	8.1	12.8	24.4	32.5	30.2	24.4	19.7	82.4	163.7	182.3	189.3
87.5°	0.0	0.0	3.5	3.5	2.3	2.3	3.5	3.5	4.6	3.5	3.5
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°	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8	1785.8
2.5°	1776.6	1763.8	1744.0	1723.1	1701.1	1682.5	1672.1	1677.9	1684.8	1662.8	1654.6
5°	1773.1	1751.0	1713.9	1669.7	1636.1	1602.4	1562.9	1553.6	1544.3	1532.7	1519.9
7.5°	1789.3	1756.8	1681.3	1640.7	1569.9	1507.2	1472.3	1446.8	1423.6	1402.7	1389.9
10°	1819.5	1759.1	1674.4	1591.9	1514.1	1437.5	1362.0	1346.9	1342.3	1312.1	1290.0
12.5°	1839.3	1764.9	1650.0	1550.1	1438.7	1356.2	1280.7	1237.8	1234.3	1220.4	1205.3
15°	1870.6	1788.2	1633.7	1497.9	1362.0	1274.9	1205.3	1149.5	1121.7	1120.5	1108.9
17.5°	1927.5	1814.9	1608.2	1444.5	1300.5	1202.9	1103.1	1082.2	1035.7	1009.0	1002.1
20°	1985.6	1854.4	1601.2	1391.1	1220.4	1099.6	1023.0	964.9	927.8	899.9	882.5
22.5°	2061.0	1911.2	1603.5	1359.7	1155.3	1021.8	922.0	836.0	767.5	733.8	717.6
25°	2170.2	1977.4	1621.0	1312.1	1078.7	938.2	793.1	679.3	582.9	558.5	546.9
27.5°	2309.5	2070.3	1645.3	1263.3	1007.9	825.6	637.5	509.7	429.6	411.0	399.4
30°	2523.2	2209.7	1648.8	1233.1	944.0	679.3	477.2	377.4	314.7	294.9	297.3
32.5°	2924.9	2508.1	1695.3	1170.4	830.2	521.4	350.7	275.2	227.6	220.6	232.2
35°	3391.7	2859.9	1784.7	1137.9	700.2	377.4	250.8	202.0	171.8	181.1	185.8
37.5°	3692.4	3169.9	1927.5	1063.6	548.1	277.5	175.3	157.9	152.1	157.9	168.4
40°	4043.1	3421.9	2049.4	988.1	389.0	190.4	140.5	144.0	137.0	135.9	140.5
42.5°	4327.6	3680.8	2179.5	863.9	270.5	141.7	128.9	131.2	126.6	120.8	120.8
45°	4598.1	3904.9	2178.3	696.7	178.8	125.4	118.4	123.1	121.9	113.8	112.6
47.5°	4835.0	4131.4	2179.5	506.3	135.9	115.0	110.3	115.0	115.0	108.0	106.8
50°	5128.8	4319.5	2144.6	324.0	124.2	106.8	105.7	104.5	109.1	99.9	97.5
52.5°	5308.8	4456.5	1987.9	218.3	115.0	101.0	98.7	96.4	98.7	90.6	90.6
55°	5506.2	4627.2	1783.5	173.0	109.1	94.1	92.9	90.6	90.6	81.3	82.4
57.5°	5721.0	4766.5	1508.3	152.1	104.5	89.4	87.1	83.6	79.0	72.0	70.8
60°	5876.6	4795.5	1234.3	138.2	101.0	87.1	77.8	73.2	65.0	60.4	59.2
62.5°	5928.8	4810.6	1000.9	124.2	95.2	80.1	69.7	61.5	52.3	48.8	48.8
65°	5885.9	4636.5	750.1	112.6	88.2	74.3	61.5	49.9	40.6	37.2	36.0
67.5°	5609.5	4316.0	545.7	101.0	77.8	67.3	53.4	40.6	32.5	29.0	29.0
70°	5106.7	3938.6	369.2	84.8	67.3	59.2	49.9	32.5	26.7	23.2	22.1
72.5°	4558.7	3339.5	235.7	68.5	52.3	46.4	36.0	27.9	22.1	17.4	17.4
75°	3605.4	2623.0	163.7	49.9	37.2	34.8	27.9	23.2	18.6	13.9	13.9
77.5°	2509.2	1704.6	128.9	38.3	25.5	23.2	20.9	17.4	15.1	11.6	10.5
80°	1454.9	1025.3	77.8	25.5	17.4	15.1	13.9	13.9	11.6	8.1	8.1
82.5°	722.2	427.3	33.7	16.3	11.6	10.5	9.3	8.1	8.1	5.8	5.8
85°	141.7	73.2	12.8	8.1	5.8	5.8	4.6	4.6	3.5	2.3	2.3
87.5°	4.6	3.5	3.5	3.5	2.3	2.3	1.2	0.0	0.0	0.0	0.0
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)