

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: P509120

Luminaire Tested: **VERD-CA2-110-730-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509120
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-CA2-110-730-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14308 lumens
Efficiency: N/A
Efficacy: 126.0 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

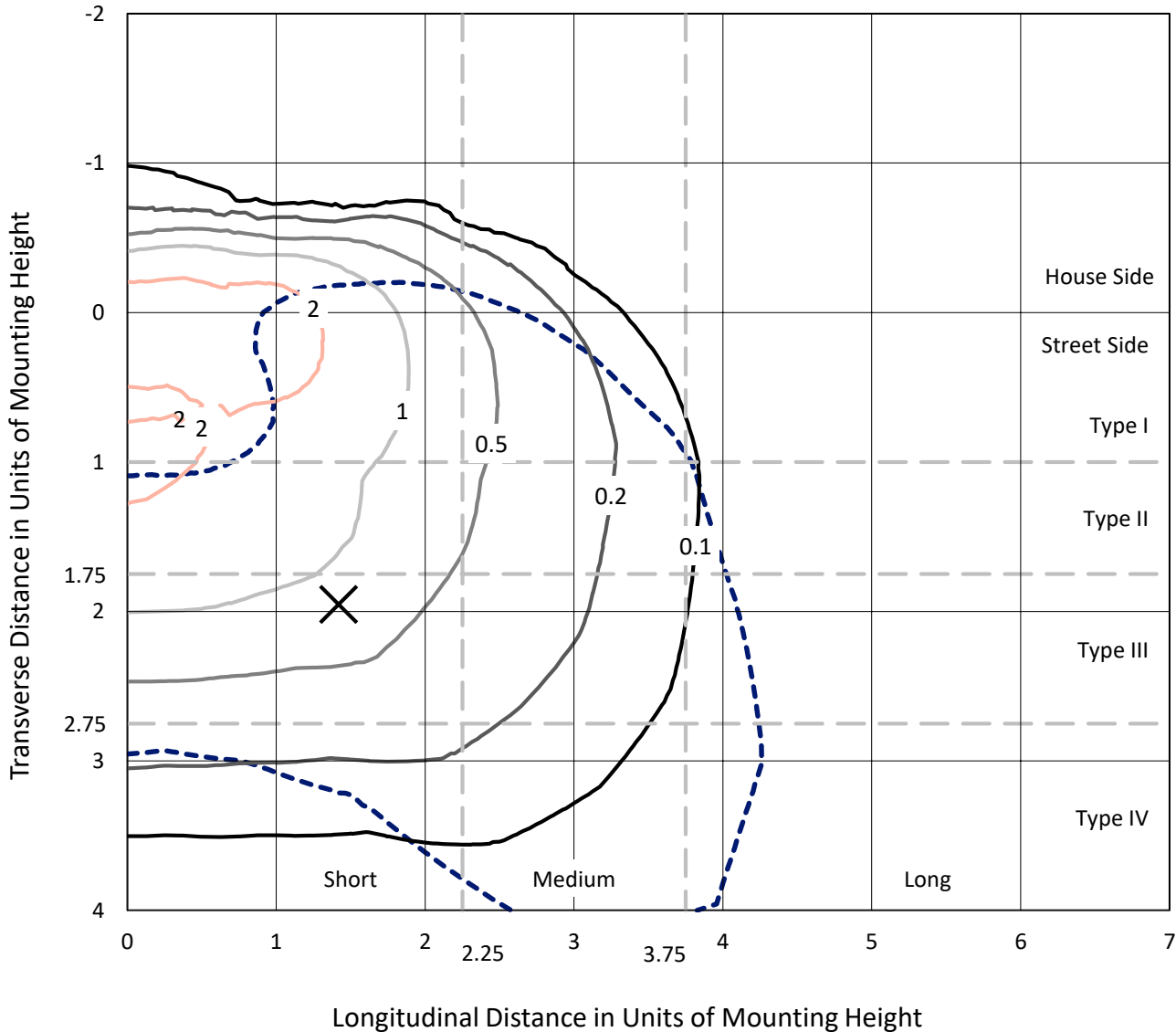
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

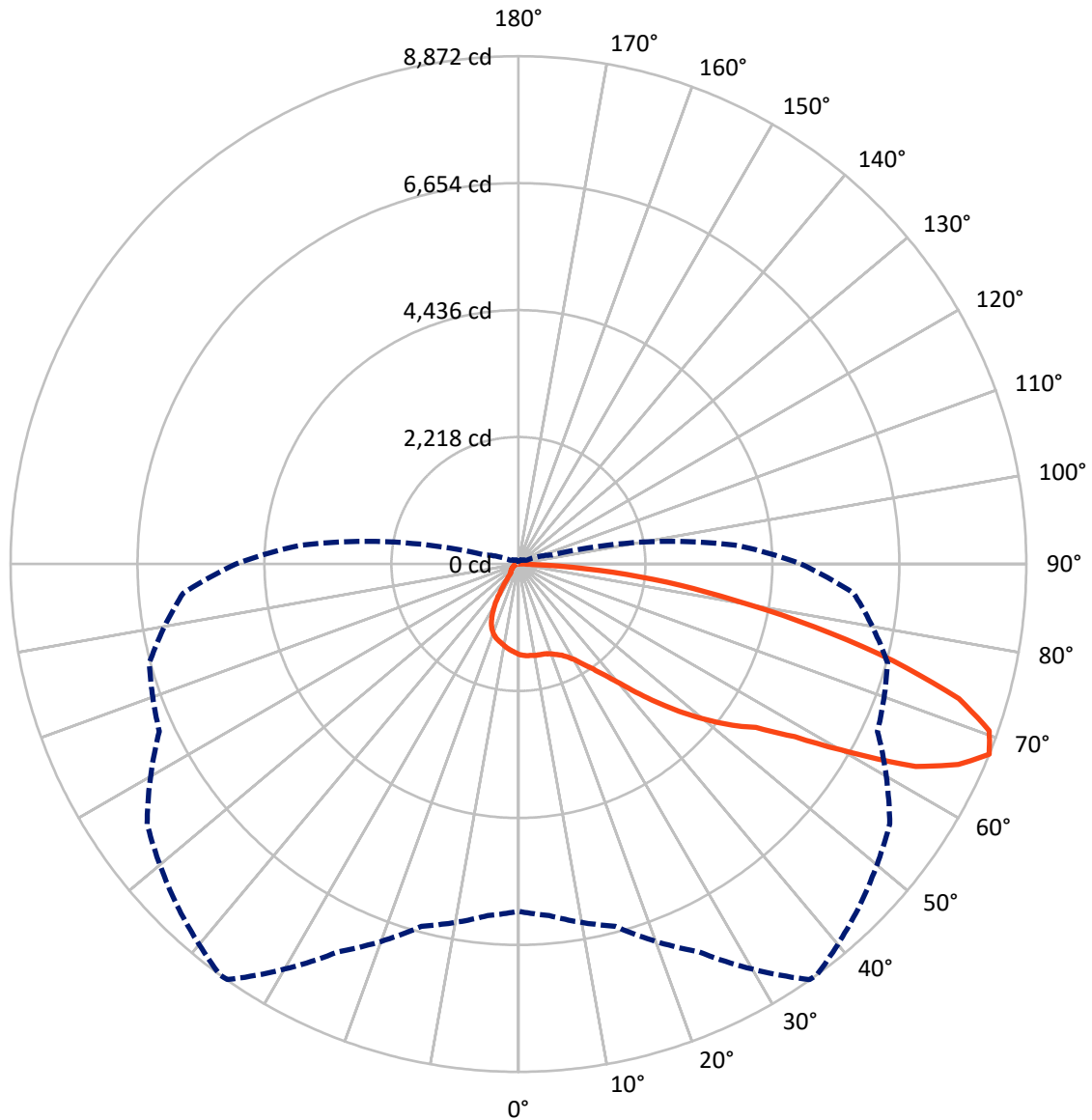
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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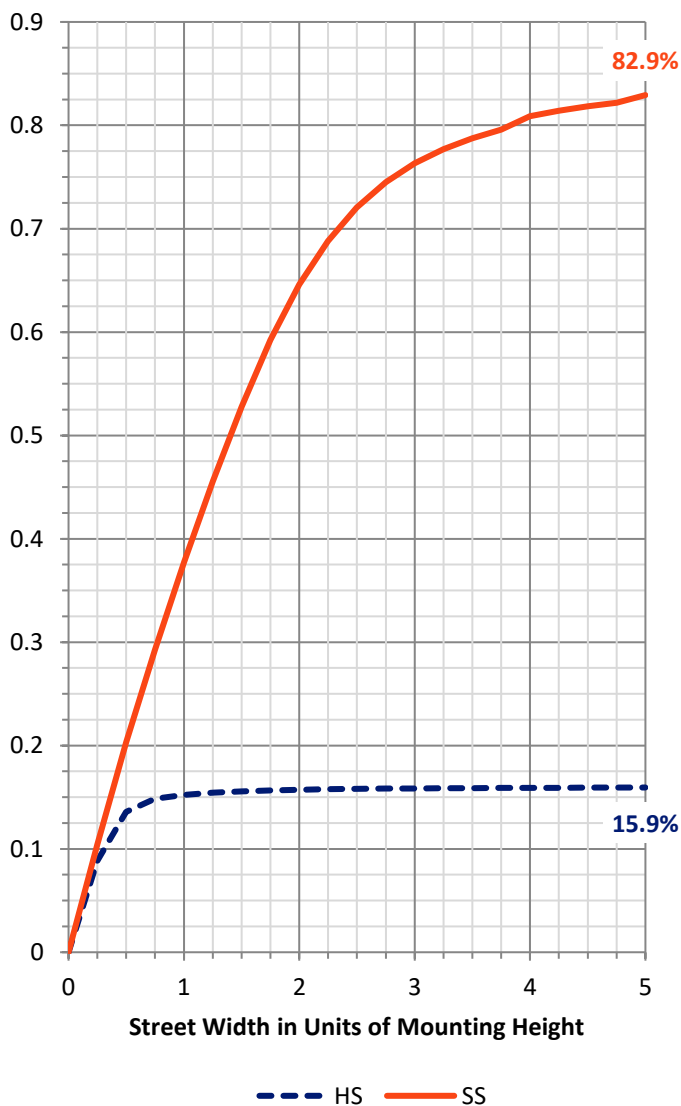
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2307.4	0.0	2307.4
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	12000.6	0.0	12000.6
	% Fixture	83.9	0.0	83.9
Total	Lumens	14308.0	0.0	14308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	1.0
10°-20°	442.1	3.1
20°-30°	731.2	5.1
30°-40°	1159.8	8.1
40°-50°	2001.9	14.0
50°-60°	2967.3	20.7
60°-70°	3836.3	26.8
70°-80°	2589.7	18.1
80°-90°	430.4	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°	14308.0	100.0
0°-180°	14308.0	100.0

Coefficient of Utilization



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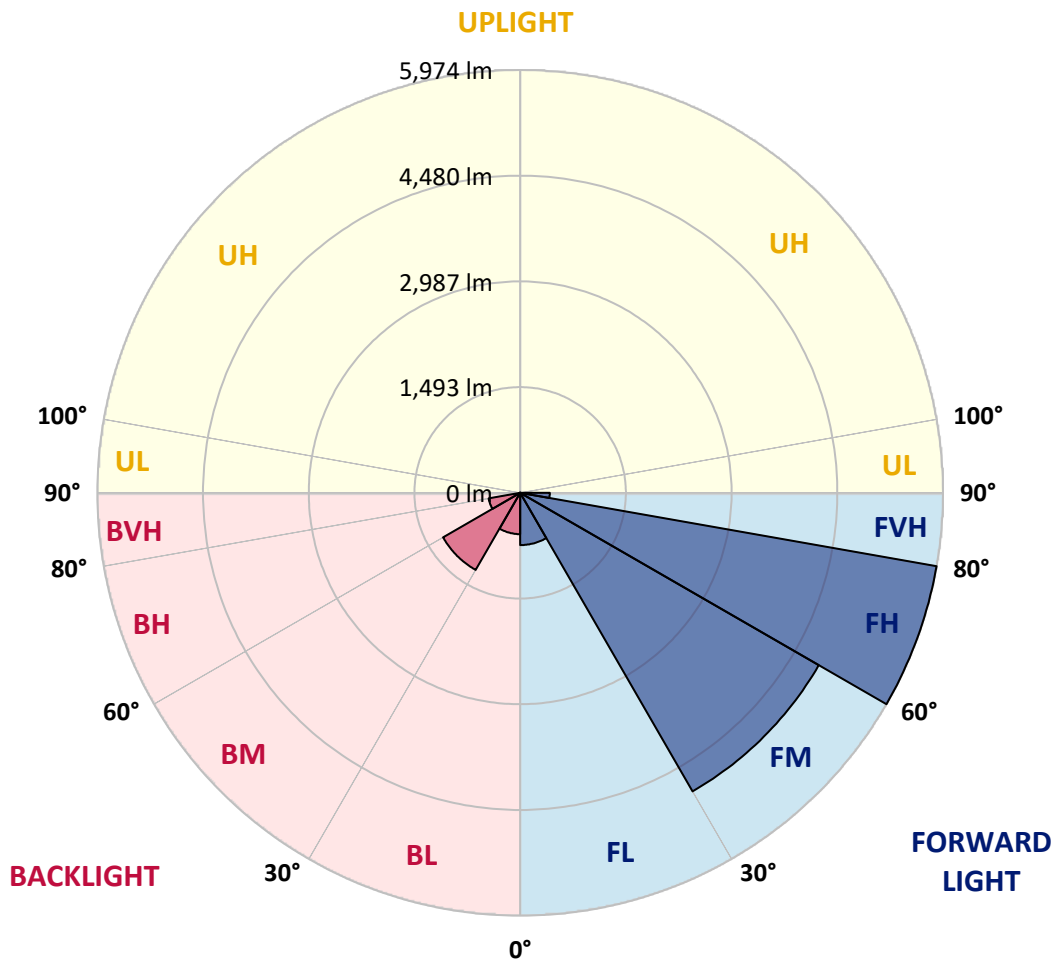
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.6	5.2			
FM	(30°-60°)	4870.2	34.0			
FH	(60°-80°)	5973.6	41.8			G3/7500
FVH	(80°-90°)	418.2	2.9			G3/500
BL	(0°-30°)	584.0	4.1	B2/1000		
BM	(30°-60°)	1258.8	8.8	B2/2500		
BH	(60°-80°)	452.4	3.2	B1/500		G1/500
BVH	(80°-90°)	12.2	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°	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3
2.5°	1588.1	1603.5	1601.8	1600.1	1600.1	1598.4	1588.1	1577.9	1583.0	1581.3	1579.6
5°	1595.0	1610.4	1608.7	1607.0	1607.0	1608.7	1593.3	1581.3	1584.7	1588.1	1586.4
7.5°	1598.4	1612.1	1608.7	1607.0	1605.3	1610.4	1598.4	1600.1	1603.5	1603.5	1603.5
10°	1603.5	1613.8	1613.8	1615.5	1617.2	1622.4	1617.2	1622.4	1636.1	1632.6	1641.2
12.5°	1589.9	1601.8	1607.0	1615.5	1624.1	1627.5	1632.6	1646.3	1663.4	1672.0	1680.6
15°	1584.7	1596.7	1605.3	1615.5	1629.2	1632.6	1646.3	1670.3	1690.8	1707.9	1726.8
17.5°	1601.8	1615.5	1627.5	1634.4	1641.2	1646.3	1660.0	1690.8	1726.8	1757.6	1785.0
20°	1634.4	1648.0	1661.7	1668.6	1673.7	1677.1	1687.4	1716.5	1762.7	1810.6	1850.0
22.5°	1672.0	1685.7	1701.1	1706.2	1718.2	1718.2	1719.9	1749.0	1805.5	1870.5	1918.4
25°	1713.1	1721.6	1735.3	1743.9	1761.0	1764.4	1769.5	1795.2	1865.4	1939.0	2014.3
27.5°	1761.0	1778.1	1791.8	1802.1	1836.3	1838.0	1834.6	1867.1	1935.6	2026.3	2132.4
30°	1848.3	1867.1	1880.8	1897.9	1942.4	1940.7	1962.9	1997.2	2036.5	2135.8	2277.8
32.5°	1986.9	1988.6	1995.4	2017.7	2081.0	2087.9	2130.6	2192.3	2271.0	2334.3	2484.9
35°	2240.2	2231.6	2211.1	2207.7	2250.4	2253.9	2337.7	2467.8	2638.9	2849.4	3082.2
37.5°	2536.2	2558.5	2534.5	2460.9	2467.8	2469.5	2568.8	2734.8	3053.1	3580.2	3800.9
40°	3056.5	3068.5	2919.6	2803.2	2762.1	2743.3	2794.7	3046.2	3453.5	4139.8	4295.5
42.5°	3515.1	3515.1	3376.5	3196.8	3092.4	3106.1	3090.7	3340.6	3864.3	4625.8	4682.3
45°	3973.8	3958.4	3831.7	3681.1	3498.0	3486.0	3446.7	3638.4	4242.5	4974.9	4976.6
47.5°	4401.6	4437.6	4247.6	4081.6	3895.1	3886.5	3816.3	3965.2	4605.3	5281.3	5235.1
50°	4851.7	4901.3	4663.5	4476.9	4275.0	4287.0	4228.8	4333.2	4966.4	5567.1	5483.2
52.5°	5491.8	5399.4	5115.3	4856.8	4648.1	4682.3	4622.4	4684.0	5341.2	5794.7	5620.1
55°	6178.0	6013.7	5777.6	5344.6	5041.7	5038.3	4993.8	5067.3	5719.4	6054.8	5775.9
57.5°	6546.0	6595.6	6540.8	6190.0	5700.6	5692.0	5425.0	5433.6	6066.8	6277.3	5993.2
60°	6965.2	7026.9	7146.7	6927.6	6682.9	6689.7	6024.0	5825.5	6433.0	6455.3	6010.3
62.5°	7187.7	7194.6	7470.1	7547.1	7745.6	7790.1	7285.3	6304.7	6676.0	6592.2	6039.4
65°	6794.1	6806.1	7336.6	7725.1	8387.4	8447.3	8229.9	7232.2	6857.4	6664.0	6012.0
67.5°	6066.8	6164.3	6551.1	7478.7	8863.2	8871.7	8433.6	7918.5	6920.8	6674.3	5880.2
70°	5084.5	5050.2	5539.7	6653.8	8789.6	8726.2	8344.6	7997.2	6874.5	6534.0	5279.6
72.5°	3770.1	3718.8	4223.6	5349.7	7928.7	8048.5	7945.9	7536.8	6700.0	6010.3	4285.3
75°	2580.7	2640.6	3094.1	4033.7	6585.3	6766.7	7220.2	7180.9	5960.7	4981.8	2933.3
77.5°	1766.1	1791.8	2180.3	3001.7	5219.7	5289.8	6041.1	5801.5	4382.8	3061.6	978.9
80°	1150.0	1141.5	1490.6	2137.5	3826.6	3818.1	4314.3	3670.9	2361.7	1043.9	135.2
82.5°	641.8	679.4	893.3	1405.0	2585.9	2613.3	2693.7	2007.4	908.7	121.5	85.6
85°	361.1	376.5	513.4	795.8	1355.4	1423.9	1201.4	737.6	162.6	66.7	49.6
87.5°	85.6	82.1	164.3	304.6	225.9	244.7	116.4	34.2	17.1	12.0	12.0
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°	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3
2.5°	1579.6	1576.2	1572.7	1565.9	1560.8	1545.4	1547.1	1557.3	1547.1	1564.2	1553.9
5°	1583.0	1577.9	1569.3	1548.8	1533.4	1521.4	1518.0	1516.3	1502.6	1518.0	1511.1
7.5°	1596.7	1591.6	1572.7	1550.5	1528.2	1492.3	1487.2	1480.3	1454.7	1464.9	1456.4
10°	1629.2	1622.4	1589.9	1559.1	1524.8	1476.9	1449.5	1429.0	1399.9	1403.3	1394.8
12.5°	1670.3	1663.4	1625.8	1574.5	1526.5	1459.8	1411.9	1372.5	1329.7	1329.7	1321.2
15°	1718.2	1711.4	1668.6	1608.7	1533.4	1446.1	1374.2	1310.9	1242.4	1233.9	1223.6
17.5°	1783.2	1773.0	1723.3	1646.3	1552.2	1434.1	1336.6	1242.4	1138.1	1105.5	1088.4
20°	1850.0	1838.0	1795.2	1699.4	1577.9	1422.1	1281.8	1153.5	1018.3	951.5	939.5
22.5°	1935.6	1932.1	1879.1	1745.6	1586.4	1396.5	1213.4	1054.2	872.8	780.4	761.6
25°	2036.5	2031.4	1949.2	1781.5	1576.2	1345.1	1115.8	912.2	708.5	616.1	595.6
27.5°	2156.3	2142.6	2009.1	1790.1	1547.1	1264.7	990.9	729.0	523.7	445.0	429.6
30°	2283.0	2262.4	2072.5	1791.8	1488.9	1165.4	826.6	535.7	371.4	314.9	314.9
32.5°	2495.2	2425.0	2134.1	1767.8	1405.0	1023.4	629.8	361.1	260.1	237.9	237.9
35°	2950.4	2782.7	2231.6	1737.0	1295.5	847.1	427.8	244.7	217.3	217.3	215.6
37.5°	3633.2	3321.8	2397.6	1685.7	1146.6	629.8	282.4	201.9	207.1	207.1	207.1
40°	4069.6	3742.8	2623.5	1605.3	975.5	427.8	201.9	191.7	195.1	198.5	198.5
42.5°	4476.9	4109.0	2849.4	1494.0	787.2	273.8	188.2	179.7	181.4	181.4	183.1
45°	4735.3	4381.1	3017.1	1375.9	580.2	195.1	184.8	169.4	164.3	164.3	167.7
47.5°	4974.9	4559.1	3090.7	1220.2	374.8	183.1	176.3	157.4	150.6	148.9	148.9
50°	5214.5	4742.2	3131.8	1035.4	234.5	176.3	162.6	143.8	136.9	135.2	135.2
52.5°	5320.6	4800.4	3039.4	826.6	174.6	169.4	152.3	131.8	121.5	121.5	121.5
55°	5431.9	4908.2	2883.6	592.1	166.0	157.4	140.3	118.1	109.5	112.9	112.9
57.5°	5555.1	4831.2	2717.6	385.1	164.3	142.0	124.9	106.1	99.3	102.7	104.4
60°	5517.4	4850.0	2479.8	258.4	157.4	130.1	112.9	94.1	89.0	89.0	89.0
62.5°	5517.4	4704.5	2089.6	196.8	143.8	119.8	104.4	87.3	78.7	75.3	71.9
65°	5372.0	4360.6	1526.5	171.1	128.4	111.2	94.1	77.0	66.7	61.6	59.9
67.5°	4932.1	3790.7	614.4	155.7	118.1	102.7	87.3	70.2	58.2	51.3	49.6
70°	4192.8	2798.1	176.3	138.6	119.8	95.8	82.1	61.6	51.3	42.8	41.1
72.5°	3107.8	1478.6	143.8	109.5	106.1	82.1	77.0	58.2	44.5	35.9	34.2
75°	1569.3	201.9	123.2	78.7	82.1	85.6	73.6	51.3	41.1	29.1	27.4
77.5°	162.6	119.8	107.8	53.1	58.2	59.9	63.3	47.9	35.9	24.0	22.2
80°	101.0	90.7	106.1	46.2	34.2	41.1	42.8	37.6	29.1	18.8	18.8
82.5°	71.9	77.0	78.7	29.1	25.7	24.0	22.2	22.2	25.7	17.1	17.1
85°	49.6	51.3	32.5	18.8	17.1	15.4	13.7	13.7	12.0	13.7	12.0
87.5°	12.0	10.3	10.3	10.3	8.6	8.6	6.8	6.8	6.8	6.8	8.6
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)