

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: P189897

Luminaire Tested: **VERD-M-A0485-E-U-T5-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26225)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-A0485-E-U-T5-7030-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K LEDS AT 85% STANDARD LUMENS AND TYPE V OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25553 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G4

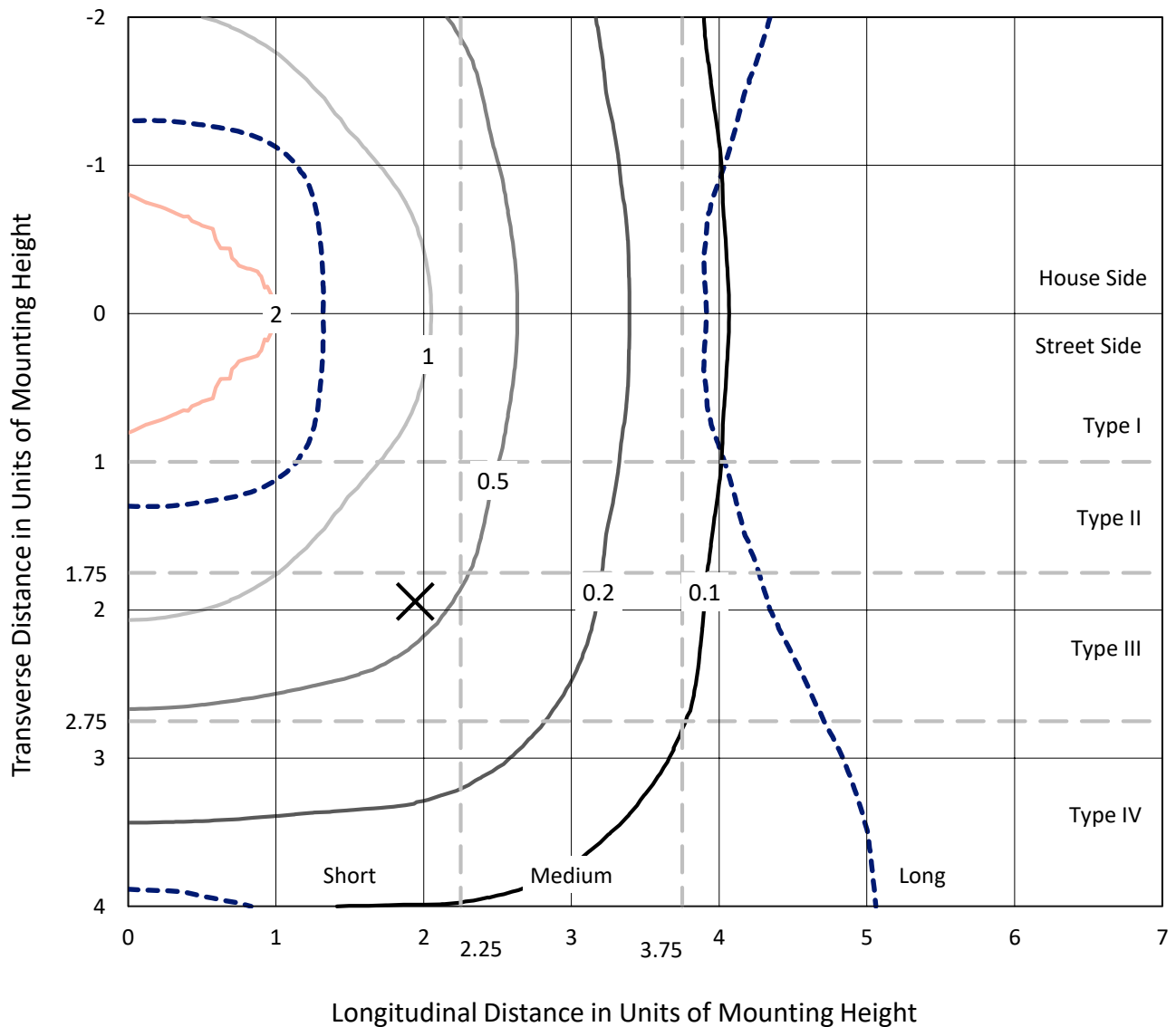
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

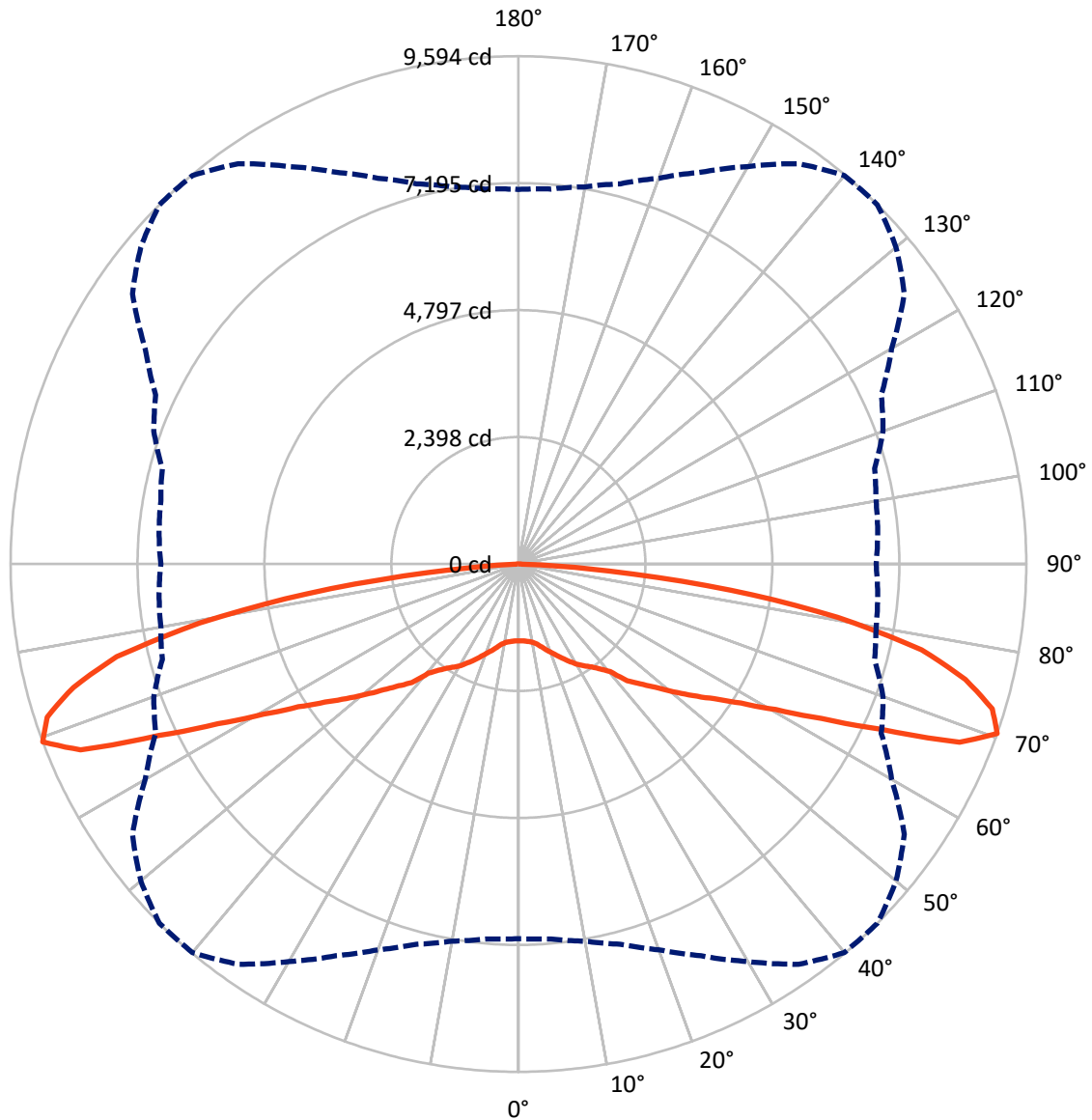
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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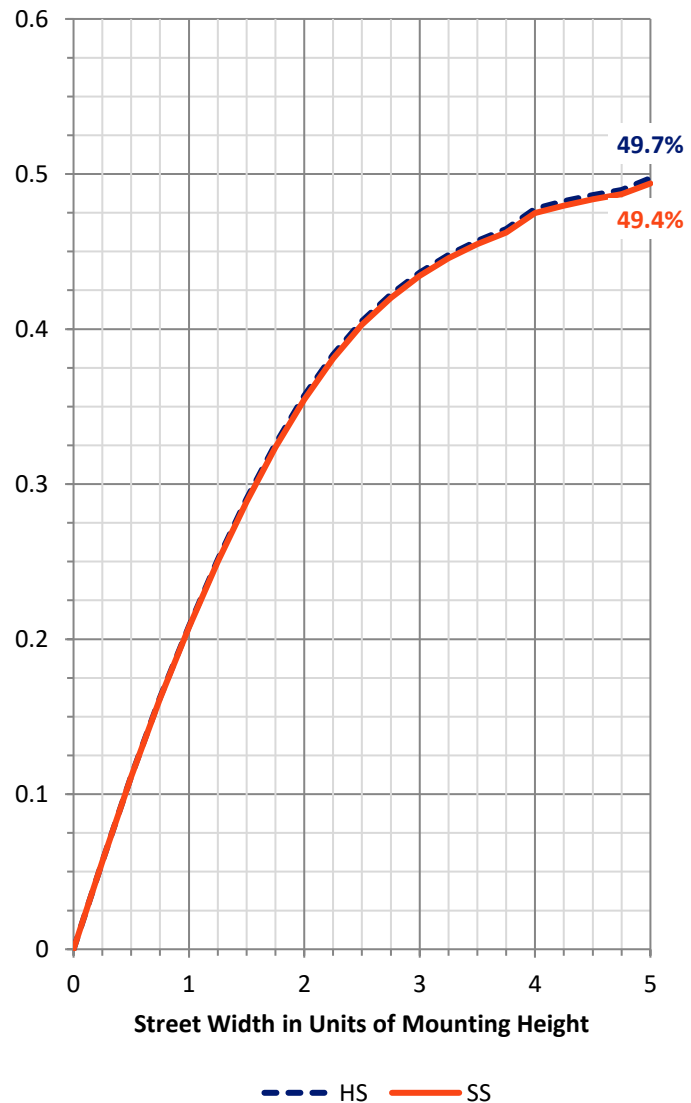
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12776.5	0.0	12776.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12776.5	0.0	12776.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25553.0	0.0	25553.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	0.6
10°-20°	463.1	1.8
20°-30°	898.6	3.5
30°-40°	1502.1	5.9
40°-50°	2615.7	10.2
50°-60°	4459.4	17.5
60°-70°	7346.8	28.8
70°-80°	6722.6	26.3
80°-90°	1403.2	5.5
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°	25553.0	100.0
0°-180°	25553.0	100.0



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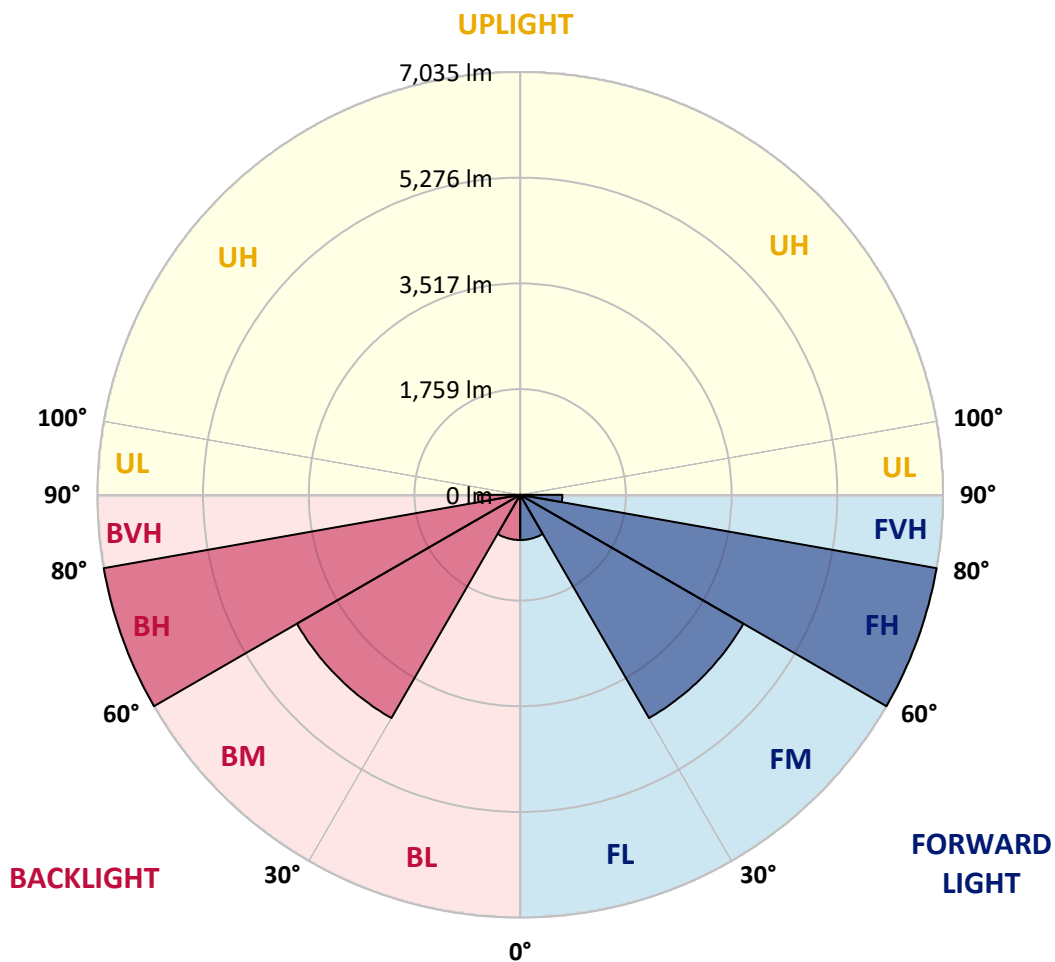
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.6	2.9			
FM	(30°-60°)	4288.6	16.8			
FH	(60°-80°)	7034.7	27.5			G3/7500
FVH	(80°-90°)	701.6	2.7			G4/750
BL	(0°-30°)	751.6	2.9	B2/1000		
BM	(30°-60°)	4288.6	16.8	B3/5000		
BH	(60°-80°)	7034.7	27.5	B5		G3/7500
BVH	(80°-90°)	701.6	2.7			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1469.4	1469.4	1469.4	1466.1	1466.1	1457.8	1457.8	1451.2	1446.2	1451.2	1447.9
5°	1486.0	1482.7	1481.0	1477.7	1477.7	1472.7	1469.4	1462.8	1461.1	1464.4	1461.1
7.5°	1505.9	1502.6	1497.6	1494.3	1497.6	1492.6	1489.3	1481.0	1481.0	1479.4	1479.4
10°	1534.0	1529.1	1527.4	1524.1	1527.4	1517.5	1517.5	1510.8	1507.5	1504.2	1505.9
12.5°	1572.1	1568.8	1567.2	1563.8	1563.8	1560.5	1563.8	1553.9	1552.2	1552.2	1553.9
15°	1628.5	1623.5	1621.8	1618.5	1618.5	1621.8	1623.5	1618.5	1623.5	1623.5	1618.5
17.5°	1696.4	1689.7	1689.7	1686.4	1689.7	1693.1	1698.0	1698.0	1703.0	1704.7	1698.0
20°	1767.6	1761.0	1759.3	1757.7	1764.3	1767.6	1777.5	1785.8	1792.5	1787.5	1774.2
22.5°	1843.8	1837.2	1833.9	1828.9	1835.5	1843.8	1867.0	1883.6	1890.2	1883.6	1867.0
25°	1925.0	1921.7	1920.0	1911.7	1908.4	1925.0	1954.8	1976.3	1989.6	1984.6	1971.4
27.5°	2012.8	2007.8	2006.2	1996.2	1994.6	1997.9	2029.4	2072.4	2085.7	2090.6	2075.7
30°	2100.6	2095.6	2094.0	2089.0	2085.7	2085.7	2102.2	2147.0	2188.4	2201.6	2168.5
32.5°	2214.9	2208.3	2206.6	2196.7	2193.4	2195.0	2205.0	2226.5	2271.2	2294.4	2253.0
35°	2355.7	2349.1	2337.5	2332.5	2324.2	2325.9	2332.5	2352.4	2373.9	2387.2	2365.6
37.5°	2504.8	2498.2	2491.6	2484.9	2473.3	2473.3	2476.6	2491.6	2511.4	2514.7	2498.2
40°	2720.2	2721.8	2695.3	2687.0	2663.8	2658.9	2660.5	2667.2	2678.7	2670.5	2673.8
42.5°	3084.6	3058.1	3033.3	3025.0	3001.8	2995.2	2991.8	2998.5	3005.1	3013.4	3023.3
45°	3434.2	3420.9	3387.8	3354.6	3309.9	3275.1	3232.1	3203.9	3202.2	3225.4	3228.7
47.5°	3845.0	3823.5	3773.8	3727.4	3657.8	3593.2	3520.3	3473.9	3460.7	3480.6	3482.2
50°	4312.2	4287.3	4229.3	4169.7	4080.2	3999.1	3886.4	3813.5	3785.4	3792.0	3788.7
52.5°	4790.9	4766.1	4694.8	4643.5	4550.7	4441.4	4305.5	4194.6	4138.2	4126.6	4110.1
55°	5334.3	5307.8	5233.3	5176.9	5062.6	4946.7	4774.4	4631.9	4540.8	4491.1	4479.5
57.5°	5899.2	5867.7	5809.8	5718.6	5634.2	5483.4	5327.7	5155.4	5026.2	4953.3	4935.1
60°	6479.0	6452.5	6392.9	6344.8	6258.7	6149.4	5970.4	5798.2	5657.3	5584.5	5541.4
62.5°	7106.9	7090.3	7045.6	7014.1	6946.2	6823.6	6735.8	6598.3	6505.5	6426.0	6371.3
65°	7796.0	7791.1	7789.4	7801.0	7786.1	7726.5	7685.0	7592.3	7560.8	7522.7	7441.5
67.5°	7686.7	7714.9	7801.0	7913.7	8071.0	8246.6	8473.6	8659.1	8851.3	8985.5	8811.5
70°	7075.4	7110.2	7234.4	7434.9	7754.6	8165.5	8670.7	9230.7	9580.2	9593.5	9311.8
72.5°	6310.1	6341.5	6444.2	6732.5	7095.3	7716.5	8553.1	9181.0	9406.3	9361.5	9070.0
75°	5112.3	5178.6	5458.5	5745.1	6243.8	6916.4	7893.8	8559.7	8854.6	8723.7	8357.6
77.5°	3672.7	3671.1	3868.2	4293.9	4769.4	5574.5	6593.3	7463.1	7830.8	7786.1	7499.5
80°	1989.6	2060.8	2274.5	2625.7	3117.8	3805.2	4694.8	5519.8	5972.1	6119.5	5970.4
82.5°	887.9	926.0	1073.5	1360.1	1666.6	2170.2	2798.0	3424.2	3856.6	4037.2	3901.3
85°	280.0	289.9	342.9	482.1	632.8	897.9	1254.1	1650.0	1860.4	1719.6	1479.4
87.5°	67.9	71.2	87.8	137.5	202.1	281.6	255.1	215.4	154.1	77.9	48.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1447.9	1446.2	1447.9	1449.5	1449.5	1447.9	1447.9	1451.2
5°	1462.8	1461.1	1462.8	1467.8	1466.1	1467.8	1466.1	1471.1
7.5°	1477.7	1476.0	1474.4	1479.4	1479.4	1481.0	1479.4	1482.7
10°	1504.2	1504.2	1502.6	1504.2	1500.9	1500.9	1497.6	1495.9
12.5°	1548.9	1547.3	1548.9	1544.0	1540.7	1539.0	1535.7	1530.7
15°	1615.2	1610.2	1611.9	1598.6	1597.0	1595.3	1592.0	1588.7
17.5°	1688.1	1676.5	1674.8	1659.9	1661.6	1656.6	1651.6	1651.6
20°	1764.3	1751.0	1742.8	1729.5	1727.9	1726.2	1717.9	1721.2
22.5°	1852.1	1832.2	1820.6	1809.0	1802.4	1805.7	1799.1	1802.4
25°	1951.5	1921.7	1896.8	1895.2	1893.5	1896.8	1895.2	1895.2
27.5°	2042.6	1997.9	1981.3	1989.6	1989.6	1992.9	1999.5	1997.9
30°	2113.8	2085.7	2079.1	2095.6	2095.6	2098.9	2105.6	2107.2
32.5°	2216.6	2201.6	2203.3	2224.8	2226.5	2234.8	2243.1	2249.7
35°	2347.4	2342.5	2355.7	2378.9	2385.5	2395.5	2410.4	2420.3
37.5°	2493.2	2504.8	2519.7	2546.2	2566.1	2579.4	2597.6	2607.5
40°	2701.9	2730.1	2755.0	2786.4	2803.0	2826.2	2847.7	2862.6
42.5°	3056.5	3074.7	3092.9	3119.4	3147.6	3167.4	3180.7	3190.6
45°	3271.8	3304.9	3351.3	3404.3	3457.4	3502.1	3536.9	3541.8
47.5°	3528.6	3579.9	3644.6	3727.4	3798.6	3841.7	3868.2	3883.1
50°	3836.7	3899.7	3990.8	4088.5	4169.7	4229.3	4262.5	4285.7
52.5°	4169.7	4249.2	4361.9	4482.8	4582.2	4641.8	4696.5	4723.0
55°	4547.4	4656.7	4795.9	4941.7	5051.0	5128.9	5168.6	5201.8
57.5°	5022.9	5160.4	5324.4	5468.5	5584.5	5668.9	5725.3	5753.4
60°	5652.4	5789.9	5935.7	6076.5	6207.3	6265.3	6315.0	6336.6
62.5°	6424.4	6528.7	6646.3	6747.4	6871.6	6956.1	7010.8	7027.4
65°	7436.5	7482.9	7612.2	7724.8	7724.8	7706.6	7698.3	7685.0
67.5°	8448.7	8137.3	7893.8	7774.5	7646.9	7550.9	7496.2	7463.1
70°	8899.3	8140.6	7562.5	7328.9	6964.4	6860.0	6813.7	6755.7
72.5°	8528.3	7651.9	6835.2	6634.7	6146.0	6202.4	5973.8	5877.7
75°	7744.7	6884.9	6154.3	5698.8	5458.5	5157.0	5034.5	5051.0
77.5°	6934.6	5978.7	5183.6	4723.0	4436.4	4139.9	4070.3	4072.0
80°	5370.7	4507.7	3833.4	3392.7	3049.8	2801.3	2599.2	2537.9
82.5°	3319.9	2740.0	2272.9	1966.4	1686.4	1467.8	1262.3	1235.8
85°	1131.5	899.5	670.9	541.7	430.7	347.9	283.3	273.3
87.5°	29.8	29.8	29.8	29.8	29.8	31.5	31.5	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)