

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: P189896

Luminaire Tested: **VERD-M-A04-E-U-T5-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189896
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-A04-E-U-T5-7030-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE V OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28851 lumens
Efficiency: N/A
Efficacy: 116.8 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 - G5

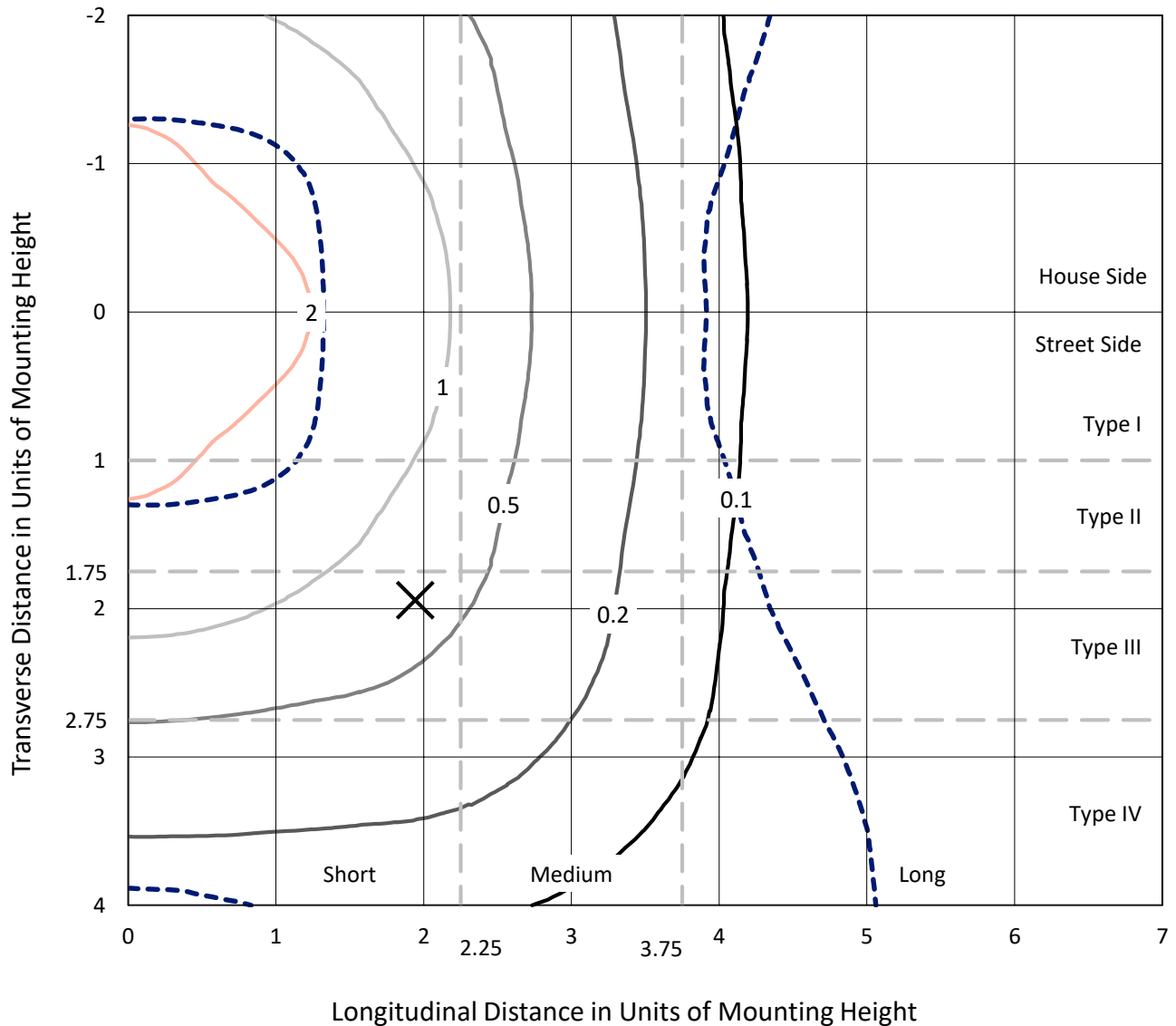
Input Watts (W): 247
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P189896
 CATALOG NUMBER: VERD-M-A04-E-U-T5-7030-AP

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

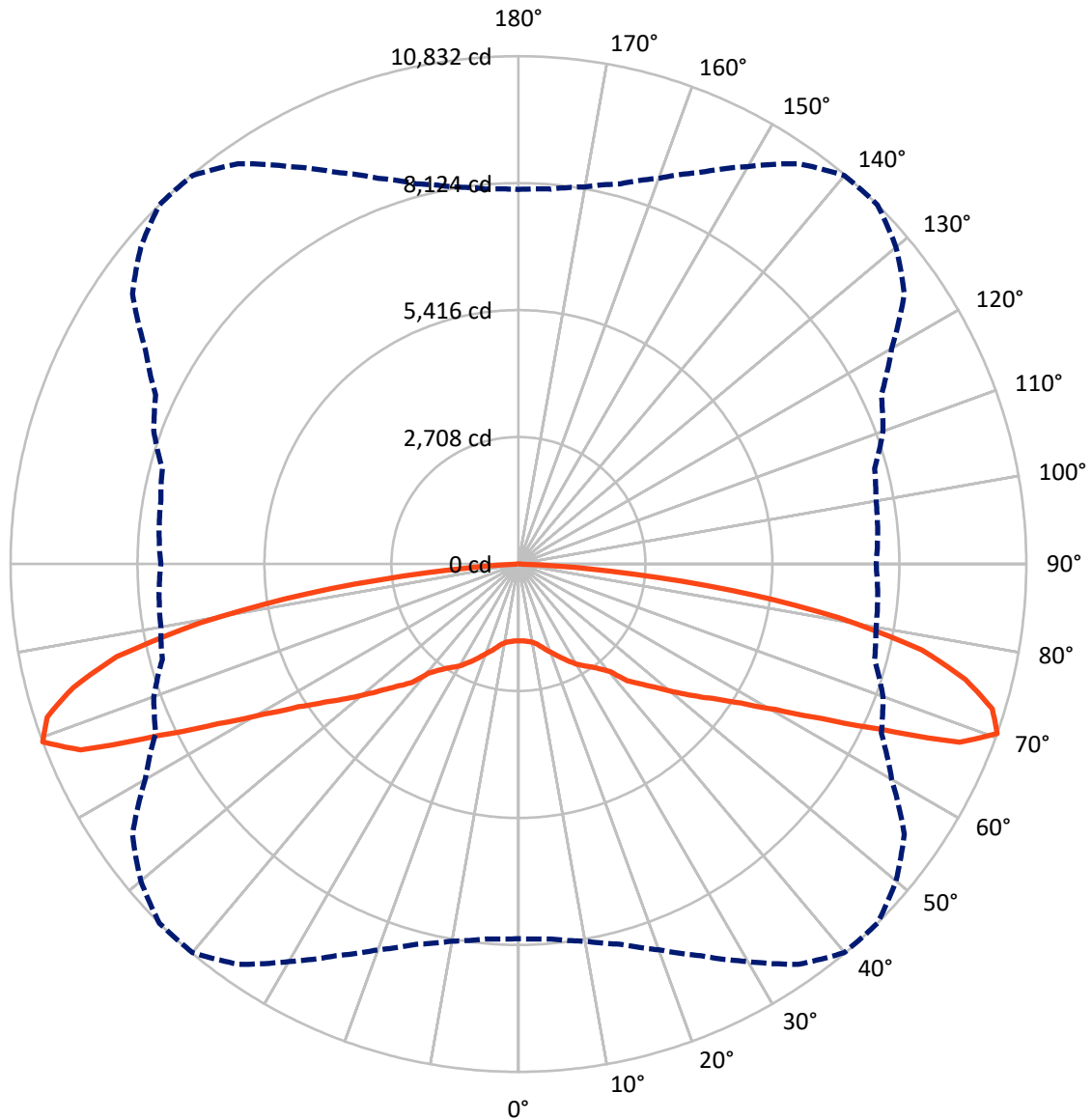


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P189896

CATALOG NUMBER: VERD-M-A04-E-U-T5-7030-AP

Luminous Intensity Polar Plot



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

REPORT NUMBER: P189896

CATALOG NUMBER: VERD-M-A04-E-U-T5-7030-AP

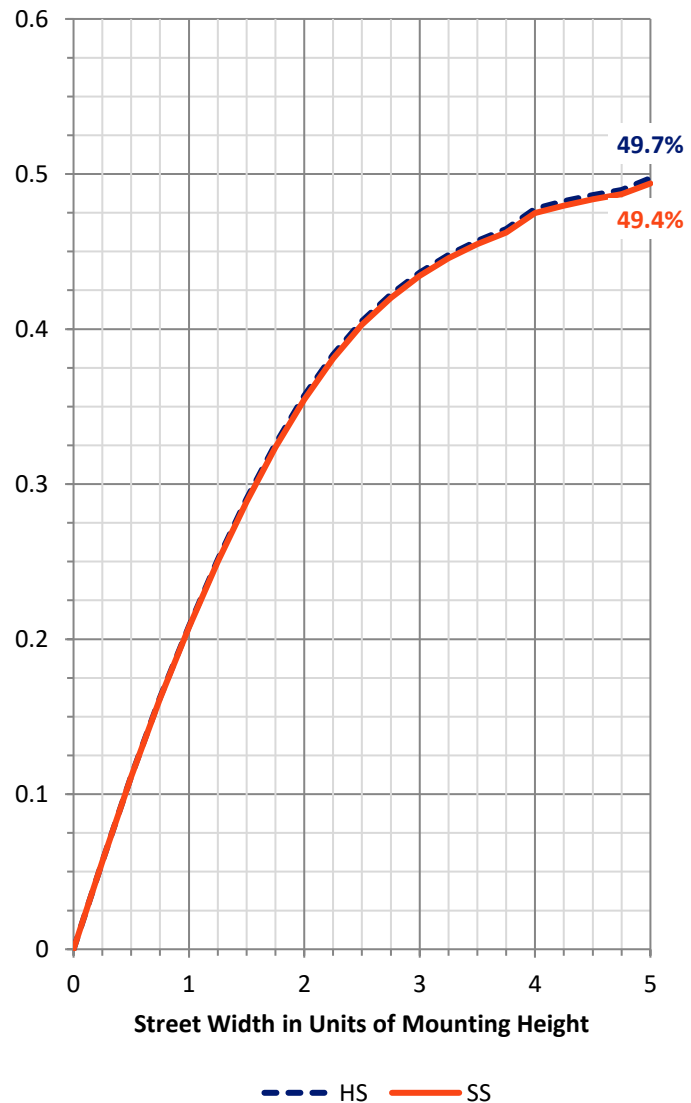
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14425.5	0.0	14425.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14425.5	0.0	14425.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28851.0	0.0	28851.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	0.6
10°-20°	522.9	1.8
20°-30°	1014.6	3.5
30°-40°	1696.0	5.9
40°-50°	2953.3	10.2
50°-60°	5035.0	17.5
60°-70°	8295.0	28.8
70°-80°	7590.3	26.3
80°-90°	1584.3	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°	28851.0	100.0
0°-180°	28851.0	100.0



REPORT NUMBER: P189896

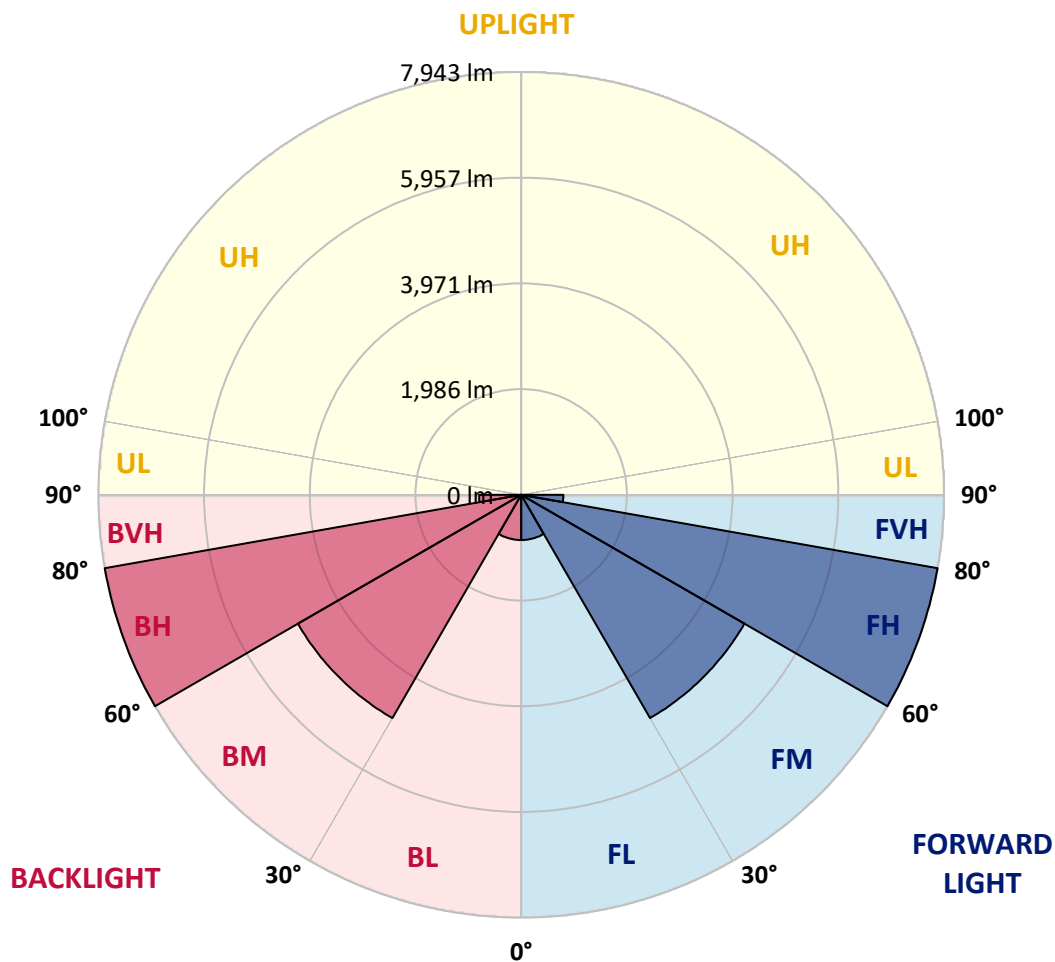
CATALOG NUMBER: VERD-M-A04-E-U-T5-7030-AP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.6	2.9			
FM	(30°-60°)	4842.1	16.8			
FH	(60°-80°)	7942.7	27.5			G4/12000
FVH	(80°-90°)	792.1	2.7			G5
BL	(0°-30°)	848.6	2.9	B2/1000		
BM	(30°-60°)	4842.1	16.8	B3/5000		
BH	(60°-80°)	7942.7	27.5	B5		G4/12000
BVH	(80°-90°)	792.1	2.7			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P189896

CATALOG NUMBER: VERD-M-A04-E-U-T5-7030-AP

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4
2.5°	1659.1	1659.1	1659.1	1655.3	1655.3	1646.0	1646.0	1638.5	1632.9	1638.5	1634.8
5°	1677.8	1674.0	1672.2	1668.4	1668.4	1662.8	1659.1	1651.6	1649.7	1653.5	1649.7
7.5°	1700.2	1696.5	1690.9	1687.1	1690.9	1685.3	1681.5	1672.2	1672.2	1670.3	1670.3
10°	1732.0	1726.4	1724.5	1720.8	1724.5	1713.3	1713.3	1705.8	1702.1	1698.3	1700.2
12.5°	1775.0	1771.3	1769.4	1765.7	1765.7	1761.9	1765.7	1754.5	1752.6	1752.6	1754.5
15°	1838.6	1833.0	1831.1	1827.4	1827.4	1831.1	1833.0	1827.4	1833.0	1833.0	1827.4
17.5°	1915.3	1907.8	1907.8	1904.1	1907.8	1911.6	1917.2	1917.2	1922.8	1924.7	1917.2
20°	1995.7	1988.3	1986.4	1984.5	1992.0	1995.7	2007.0	2016.3	2023.8	2018.2	2003.2
22.5°	2081.8	2074.3	2070.6	2065.0	2072.4	2081.8	2108.0	2126.7	2134.2	2126.7	2108.0
25°	2173.4	2169.7	2167.8	2158.5	2154.7	2173.4	2207.1	2231.4	2246.4	2240.8	2225.8
27.5°	2272.6	2267.0	2265.1	2253.9	2252.0	2255.7	2291.3	2339.9	2354.9	2360.5	2343.6
30°	2371.7	2366.1	2364.2	2358.6	2354.9	2354.9	2373.6	2424.1	2470.8	2485.8	2448.4
32.5°	2500.8	2493.3	2491.4	2480.2	2476.4	2478.3	2489.5	2513.9	2564.4	2590.5	2543.8
35°	2659.7	2652.3	2639.2	2633.6	2624.2	2626.1	2633.6	2656.0	2680.3	2695.3	2671.0
37.5°	2828.1	2820.6	2813.1	2805.6	2792.5	2792.5	2796.3	2813.1	2835.6	2839.3	2820.6
40°	3071.2	3073.1	3043.2	3033.8	3007.6	3002.0	3003.9	3011.4	3024.5	3015.1	3018.9
42.5°	3482.7	3452.8	3424.8	3415.4	3389.2	3381.7	3378.0	3385.5	3393.0	3402.3	3413.5
45°	3877.4	3862.4	3825.0	3787.6	3737.1	3697.8	3649.2	3617.4	3615.5	3641.7	3645.5
47.5°	4341.3	4316.9	4260.8	4208.5	4129.9	4057.0	3974.7	3922.3	3907.3	3929.8	3931.6
50°	4868.7	4840.7	4775.2	4707.9	4606.9	4515.2	4388.0	4305.7	4273.9	4281.4	4277.7
52.5°	5409.3	5381.2	5300.8	5242.8	5138.1	5014.6	4861.2	4735.9	4672.3	4659.2	4640.5
55°	6022.8	5992.8	5908.7	5845.1	5716.0	5585.1	5390.6	5229.7	5126.8	5070.7	5057.6
57.5°	6660.6	6625.1	6559.6	6456.7	6361.3	6191.1	6015.3	5820.8	5674.9	5592.6	5572.0
60°	7315.2	7285.3	7218.0	7163.7	7066.5	6943.0	6741.0	6546.5	6387.5	6305.2	6256.6
62.5°	8024.1	8005.4	7954.9	7919.4	7842.7	7704.3	7605.2	7449.9	7345.2	7255.4	7193.7
65°	8802.2	8796.6	8794.7	8807.8	8791.0	8723.7	8676.9	8572.2	8536.6	8493.6	8402.0
67.5°	8678.8	8710.6	8807.8	8935.0	9112.7	9311.0	9567.2	9776.7	9993.7	10145.2	9948.8
70°	7988.6	8027.9	8168.2	8394.5	8755.5	9219.3	9789.8	10422.0	10816.7	10831.6	10513.7
72.5°	7124.5	7160.0	7276.0	7601.4	8011.0	8712.5	9657.0	10365.9	10620.3	10569.8	10240.6
75°	5772.1	5847.0	6163.1	6486.6	7049.6	7809.0	8912.6	9664.5	9997.4	9849.7	9436.3
77.5°	4146.7	4144.9	4367.4	4848.1	5385.0	6294.0	7444.3	8426.3	8841.5	8791.0	8467.4
80°	2246.4	2326.8	2568.1	2964.6	3520.1	4296.4	5300.8	6232.3	6742.9	6909.4	6741.0
82.5°	1002.5	1045.6	1212.0	1535.6	1881.6	2450.3	3159.2	3866.2	4354.4	4558.2	4404.9
85°	316.1	327.3	387.2	544.3	714.5	1013.8	1415.9	1862.9	2100.5	1941.5	1670.3
87.5°	76.7	80.4	99.1	155.2	228.2	318.0	288.0	243.2	173.9	87.9	54.2
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: P189896

CATALOG NUMBER: VERD-M-A04-E-U-T5-7030-AP

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4	1640.4
2.5°	1634.8	1632.9	1634.8	1636.6	1636.6	1634.8	1634.8	1638.5
5°	1651.6	1649.7	1651.6	1657.2	1655.3	1657.2	1655.3	1660.9
7.5°	1668.4	1666.6	1664.7	1670.3	1670.3	1672.2	1670.3	1674.0
10°	1698.3	1698.3	1696.5	1698.3	1694.6	1694.6	1690.9	1689.0
12.5°	1748.8	1747.0	1748.8	1743.2	1739.5	1737.6	1733.9	1728.3
15°	1823.7	1818.1	1819.9	1805.0	1803.1	1801.2	1797.5	1793.7
17.5°	1906.0	1892.9	1891.0	1874.2	1876.0	1870.4	1864.8	1864.8
20°	1992.0	1977.0	1967.7	1952.7	1950.9	1949.0	1939.6	1943.4
22.5°	2091.1	2068.7	2055.6	2042.5	2035.0	2038.8	2031.3	2035.0
25°	2203.4	2169.7	2141.6	2139.8	2137.9	2141.6	2139.8	2139.8
27.5°	2306.2	2255.7	2237.0	2246.4	2246.4	2250.1	2257.6	2255.7
30°	2386.7	2354.9	2347.4	2366.1	2366.1	2369.8	2377.3	2379.2
32.5°	2502.6	2485.8	2487.7	2512.0	2513.9	2523.2	2532.6	2540.0
35°	2650.4	2644.8	2659.7	2685.9	2693.4	2704.6	2721.5	2732.7
37.5°	2815.0	2828.1	2844.9	2874.8	2897.3	2912.3	2932.8	2944.1
40°	3050.7	3082.5	3110.5	3146.1	3164.8	3190.9	3215.3	3232.1
42.5°	3450.9	3471.5	3492.1	3522.0	3553.8	3576.3	3591.2	3602.4
45°	3694.1	3731.5	3783.9	3843.7	3903.6	3954.1	3993.4	3999.0
47.5°	3984.0	4042.0	4114.9	4208.5	4288.9	4337.5	4367.4	4384.3
50°	4331.9	4403.0	4505.9	4616.2	4707.9	4775.2	4812.6	4838.8
52.5°	4707.9	4797.6	4924.8	5061.4	5173.6	5240.9	5302.7	5332.6
55°	5134.3	5257.8	5414.9	5579.5	5702.9	5790.8	5835.7	5873.1
57.5°	5671.1	5826.4	6011.6	6174.3	6305.2	6400.6	6464.2	6496.0
60°	6381.9	6537.1	6701.7	6860.7	7008.5	7074.0	7130.1	7154.4
62.5°	7253.5	7371.4	7504.2	7618.3	7758.5	7853.9	7915.6	7934.4
65°	8396.3	8448.7	8594.6	8721.8	8721.8	8701.2	8691.9	8676.9
67.5°	9539.2	9187.5	8912.6	8777.9	8633.9	8525.4	8463.7	8426.3
70°	10047.9	9191.3	8538.5	8274.8	7863.3	7745.4	7693.1	7627.6
72.5°	9629.0	8639.5	7717.4	7491.1	6939.3	7002.9	6744.8	6636.3
75°	8744.2	7773.5	6948.6	6434.3	6163.1	5822.6	5684.2	5702.9
77.5°	7829.6	6750.4	5852.6	5332.6	5009.0	4674.2	4595.6	4597.5
80°	6063.9	5089.4	4328.2	3830.6	3443.5	3162.9	2934.7	2865.5
82.5°	3748.3	3093.7	2566.2	2220.2	1904.1	1657.2	1425.3	1395.3
85°	1277.5	1015.6	757.5	611.6	486.3	392.8	319.8	308.6
87.5°	33.7	33.7	33.7	33.7	33.7	35.5	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)