

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: P189900

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189900
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-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE V OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30010 lumens
Efficiency: N/A
Efficacy: 121.5 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

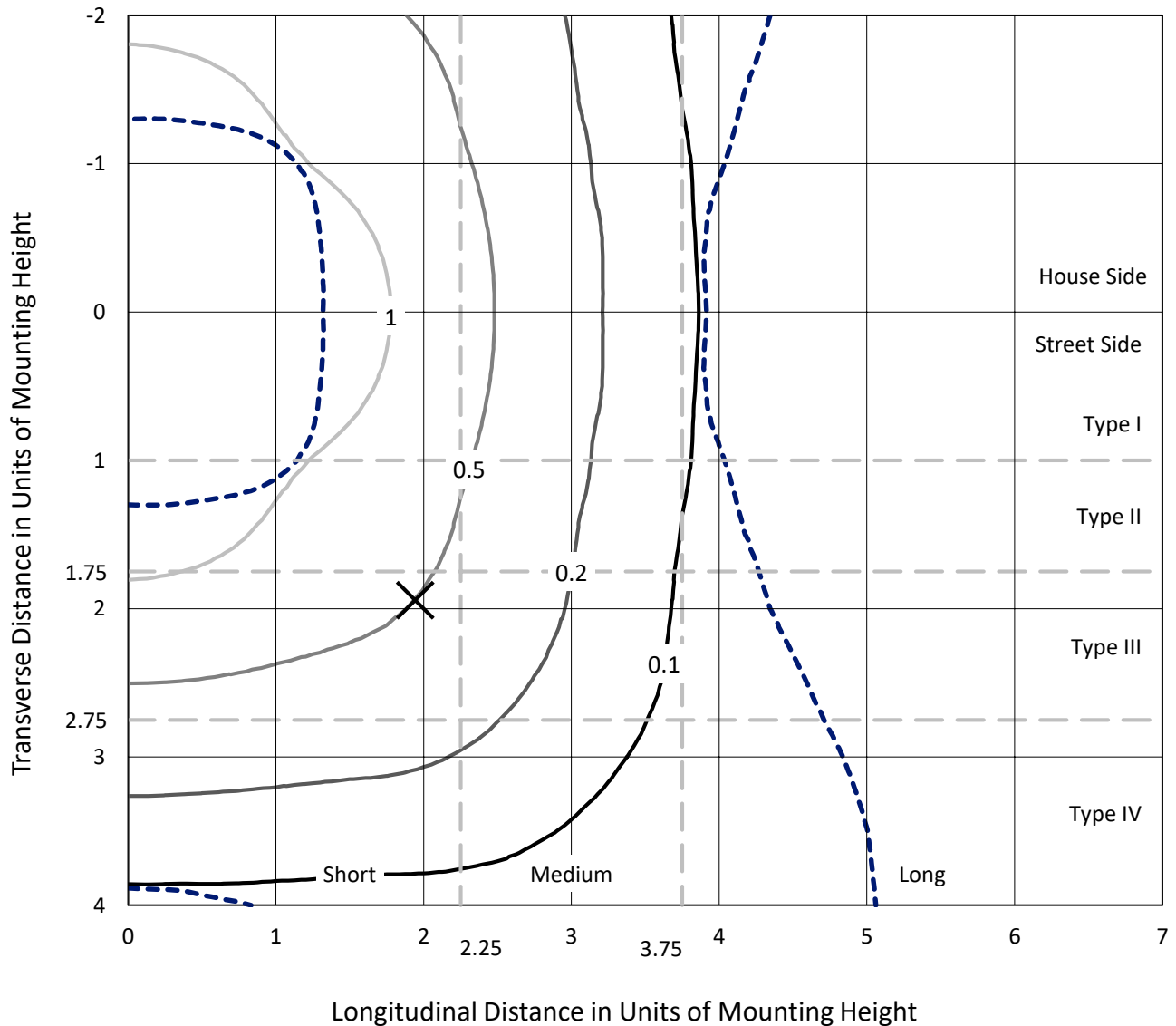


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

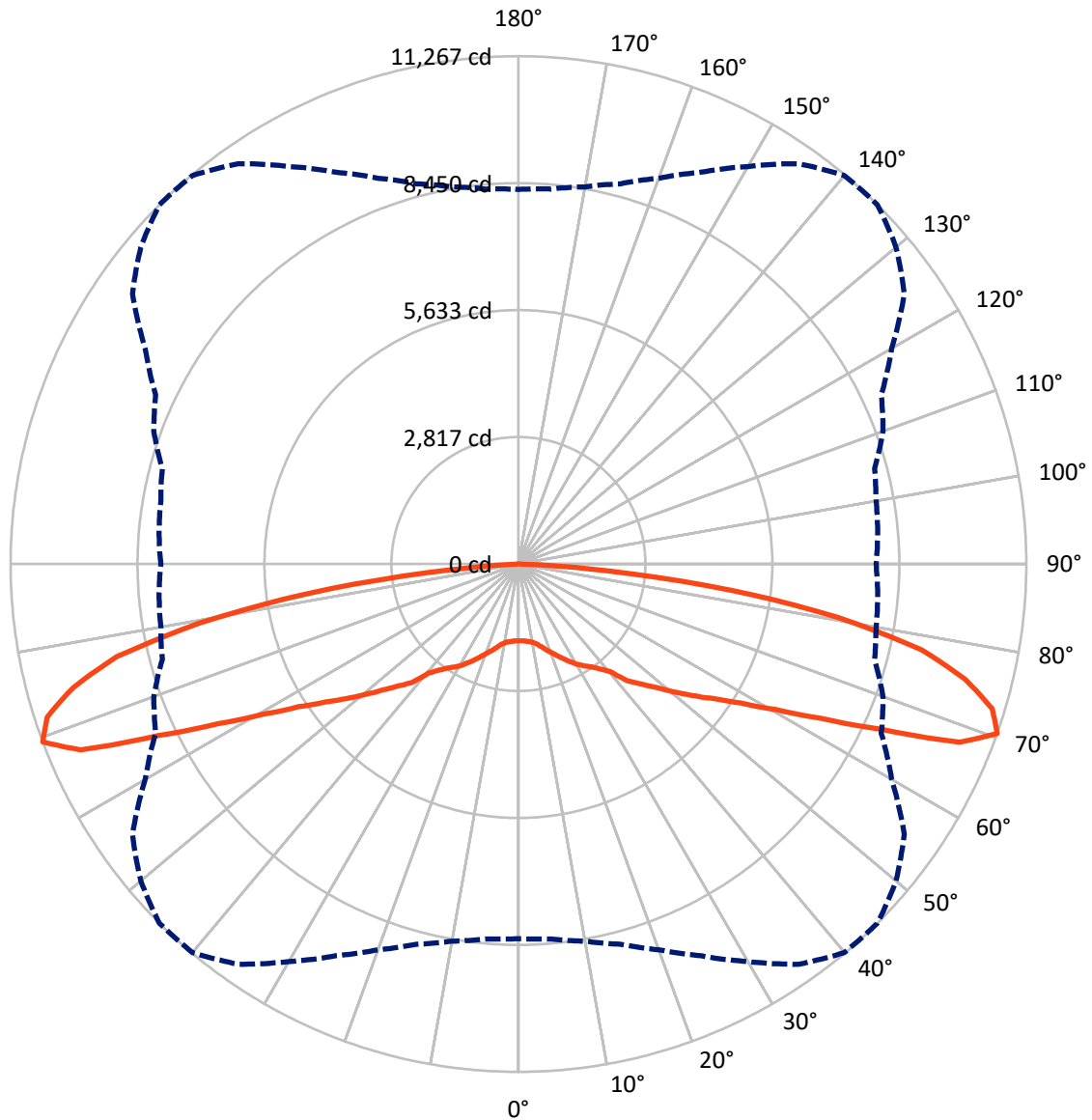


Based on 30 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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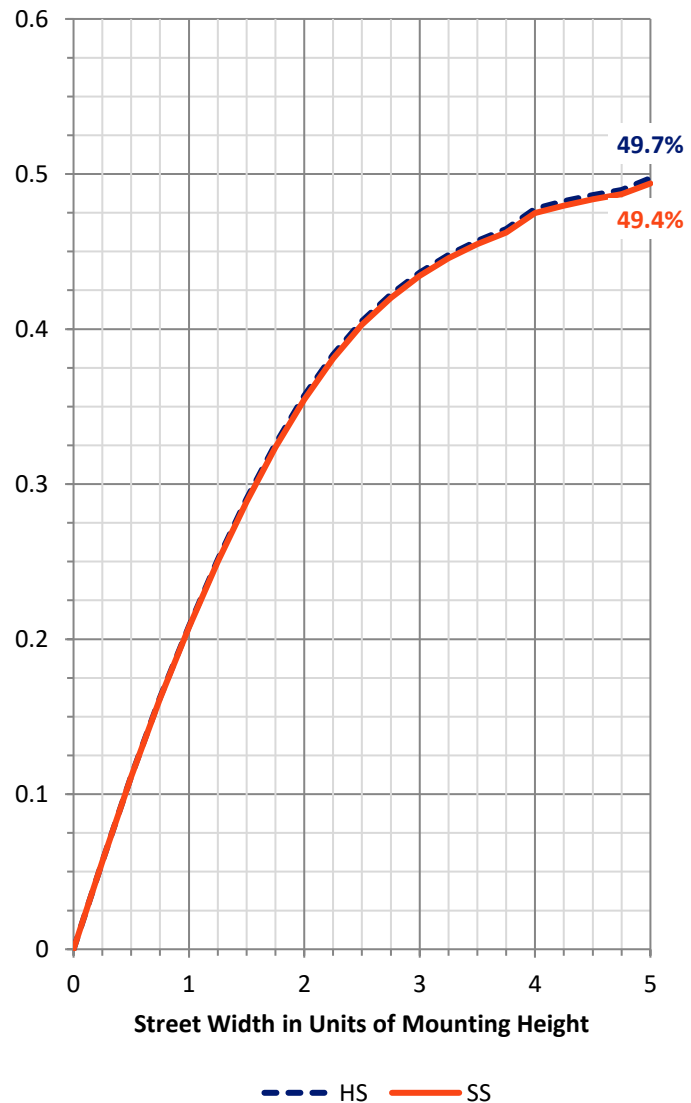
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15005.0	0.0	15005.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15005.0	0.0	15005.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30010.0	0.0	30010.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	0.6
10°-20°	543.9	1.8
20°-30°	1055.3	3.5
30°-40°	1764.1	5.9
40°-50°	3071.9	10.2
50°-60°	5237.2	17.5
60°-70°	8628.3	28.8
70°-80°	7895.2	26.3
80°-90°	1647.9	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°	30010.0	100.0
0°-180°	30010.0	100.0



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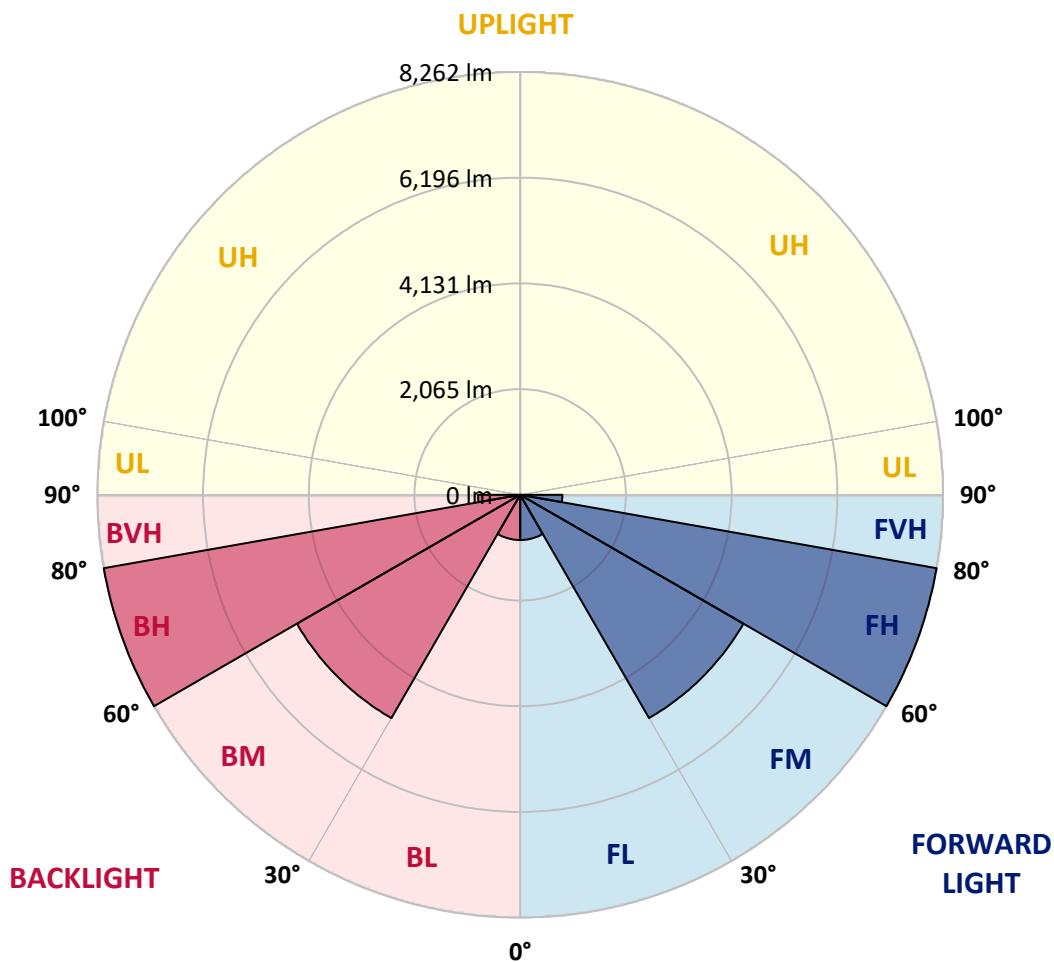
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.7	2.9			
FM	(30°-60°)	5036.6	16.8			
FH	(60°-80°)	8261.7	27.5			G4/12000
FVH	(80°-90°)	824.0	2.7			G5
BL	(0°-30°)	882.7	2.9	B2/1000		
BM	(30°-60°)	5036.6	16.8	B4/8500		
BH	(60°-80°)	8261.7	27.5	B5		G4/12000
BVH	(80°-90°)	824.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1725.7	1725.7	1725.7	1721.8	1721.8	1712.1	1712.1	1704.3	1698.5	1704.3	1700.4
5°	1745.2	1741.3	1739.3	1735.4	1735.4	1729.6	1725.7	1717.9	1716.0	1719.9	1716.0
7.5°	1768.5	1764.6	1758.8	1754.9	1758.8	1753.0	1749.1	1739.3	1739.3	1737.4	1737.4
10°	1801.6	1795.8	1793.8	1789.9	1793.8	1782.1	1782.1	1774.4	1770.5	1766.6	1768.5
12.5°	1846.3	1842.5	1840.5	1836.6	1836.6	1832.7	1836.6	1824.9	1823.0	1823.0	1824.9
15°	1912.5	1906.7	1904.7	1900.8	1900.8	1904.7	1906.7	1900.8	1906.7	1906.7	1900.8
17.5°	1992.3	1984.5	1984.5	1980.6	1984.5	1988.4	1994.2	1994.2	2000.0	2002.0	1994.2
20°	2075.9	2068.1	2066.2	2064.2	2072.0	2075.9	2087.6	2097.3	2105.1	2099.3	2083.7
22.5°	2165.4	2157.6	2153.7	2147.9	2155.7	2165.4	2192.7	2212.1	2219.9	2212.1	2192.7
25°	2260.7	2256.9	2254.9	2245.2	2241.3	2260.7	2295.8	2321.1	2336.6	2330.8	2315.2
27.5°	2363.9	2358.0	2356.1	2344.4	2342.5	2346.4	2383.3	2433.9	2449.5	2455.3	2437.8
30°	2467.0	2461.1	2459.2	2453.4	2449.5	2449.5	2468.9	2521.5	2570.1	2585.7	2546.7
32.5°	2601.2	2593.4	2591.5	2579.8	2575.9	2577.9	2589.5	2614.8	2667.4	2694.6	2646.0
35°	2766.6	2758.8	2745.2	2739.4	2729.6	2731.6	2739.4	2762.7	2788.0	2803.6	2778.3
37.5°	2941.7	2933.9	2926.1	2918.3	2904.7	2904.7	2908.6	2926.1	2949.5	2953.4	2933.9
40°	3194.6	3196.6	3165.4	3155.7	3128.5	3122.6	3124.6	3132.4	3146.0	3136.3	3140.1
42.5°	3622.6	3591.5	3562.3	3552.6	3525.4	3517.6	3513.7	3521.5	3529.3	3539.0	3550.7
45°	4033.2	4017.6	3978.7	3939.8	3887.2	3846.4	3795.8	3762.7	3760.8	3788.0	3791.9
47.5°	4515.7	4490.4	4432.0	4377.5	4295.8	4219.9	4134.3	4079.9	4064.3	4087.6	4089.6
50°	5064.3	5035.1	4967.0	4897.0	4791.9	4696.6	4564.3	4478.7	4445.6	4453.4	4449.5
52.5°	5626.6	5597.4	5513.7	5453.4	5344.5	5216.1	5056.5	4926.2	4860.0	4846.4	4826.9
55°	6264.7	6233.6	6146.0	6079.9	5945.6	5809.5	5607.1	5439.8	5332.8	5274.4	5260.8
57.5°	6928.2	6891.2	6823.1	6716.1	6616.9	6439.8	6256.9	6054.6	5902.8	5817.2	5795.8
60°	7609.1	7578.0	7507.9	7451.5	7350.3	7221.9	7011.8	6809.5	6644.1	6558.5	6507.9
62.5°	8346.5	8327.0	8274.5	8237.5	8157.8	8013.8	7910.7	7749.2	7640.2	7546.9	7482.6
65°	9155.8	9150.0	9148.1	9161.7	9144.2	9074.1	9025.5	8916.5	8879.6	8834.8	8739.5
67.5°	9027.4	9060.5	9161.7	9294.0	9478.8	9685.0	9951.6	10169.5	10395.2	10552.7	10348.5
70°	8309.5	8350.4	8496.3	8731.7	9107.2	9589.7	10183.1	10840.7	11251.2	11266.8	10936.0
72.5°	7410.7	7447.6	7568.3	7906.8	8332.9	9062.4	10045.0	10782.3	11046.9	10994.4	10652.0
75°	6004.0	6081.8	6410.6	6747.2	7332.8	8122.7	9270.6	10052.7	10399.1	10245.4	9815.4
77.5°	4313.3	4311.4	4542.9	5042.9	5601.3	6546.8	7743.4	8764.8	9196.7	9144.2	8807.6
80°	2336.6	2420.3	2671.3	3083.7	3661.6	4469.0	5513.7	6482.6	7013.8	7186.9	7011.8
82.5°	1042.8	1087.6	1260.7	1597.3	1957.2	2548.7	3286.1	4021.5	4529.3	4741.3	4581.8
85°	328.8	340.5	402.7	566.2	743.2	1054.5	1472.8	1937.8	2184.9	2019.5	1737.4
87.5°	79.8	83.7	103.1	161.5	237.4	330.7	299.6	252.9	180.9	91.4	56.4
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°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1700.4	1698.5	1700.4	1702.4	1702.4	1700.4	1700.4	1704.3
5°	1717.9	1716.0	1717.9	1723.8	1721.8	1723.8	1721.8	1727.7
7.5°	1735.4	1733.5	1731.6	1737.4	1737.4	1739.3	1737.4	1741.3
10°	1766.6	1766.6	1764.6	1766.6	1762.7	1762.7	1758.8	1756.8
12.5°	1819.1	1817.2	1819.1	1813.3	1809.4	1807.4	1803.5	1797.7
15°	1896.9	1891.1	1893.0	1877.5	1875.5	1873.6	1869.7	1865.8
17.5°	1982.5	1968.9	1967.0	1949.5	1951.4	1945.6	1939.7	1939.7
20°	2072.0	2056.5	2046.7	2031.2	2029.2	2027.3	2017.6	2021.4
22.5°	2175.1	2151.8	2138.2	2124.6	2116.8	2120.7	2112.9	2116.8
25°	2291.9	2256.9	2227.7	2225.7	2223.8	2227.7	2225.7	2225.7
27.5°	2398.9	2346.4	2326.9	2336.6	2336.6	2340.5	2348.3	2346.4
30°	2482.5	2449.5	2441.7	2461.1	2461.1	2465.0	2472.8	2474.8
32.5°	2603.2	2585.7	2587.6	2612.9	2614.8	2624.6	2634.3	2642.1
35°	2756.9	2751.0	2766.6	2793.8	2801.6	2813.3	2830.8	2842.5
37.5°	2928.1	2941.7	2959.2	2990.3	3013.7	3029.2	3050.6	3062.3
40°	3173.2	3206.3	3235.5	3272.4	3291.9	3319.1	3344.4	3361.9
42.5°	3589.6	3611.0	3632.4	3663.5	3696.6	3719.9	3735.5	3747.2
45°	3842.5	3881.4	3935.9	3998.1	4060.4	4112.9	4153.8	4159.6
47.5°	4144.1	4204.4	4280.2	4377.5	4461.2	4511.8	4542.9	4560.4
50°	4505.9	4579.9	4686.9	4801.7	4897.0	4967.0	5005.9	5033.2
52.5°	4897.0	4990.4	5122.7	5264.7	5381.4	5451.5	5515.7	5546.8
55°	5340.6	5469.0	5632.4	5803.6	5932.0	6023.5	6070.2	6109.1
57.5°	5899.0	6060.4	6253.0	6422.3	6558.5	6657.7	6723.9	6757.0
60°	6638.3	6799.8	6971.0	7136.3	7290.0	7358.1	7416.5	7441.8
62.5°	7544.9	7667.5	7805.6	7924.3	8070.2	8169.4	8233.6	8253.1
65°	8733.6	8788.1	8939.9	9072.2	9072.2	9050.8	9041.0	9025.5
67.5°	9922.4	9556.6	9270.6	9130.5	8980.7	8867.9	8803.7	8764.8
70°	10451.6	9560.5	8881.5	8607.2	8179.2	8056.6	8002.1	7934.0
72.5°	10015.8	8986.6	8027.4	7792.0	7218.0	7284.2	7015.7	6902.9
75°	9095.5	8085.8	7227.8	6692.7	6410.6	6056.5	5912.6	5932.0
77.5°	8144.1	7021.5	6087.7	5546.8	5210.2	4862.0	4780.3	4782.2
80°	6307.5	5293.9	4502.0	3984.5	3581.8	3290.0	3052.6	2980.6
82.5°	3898.9	3218.0	2669.3	2309.4	1980.6	1723.8	1482.5	1451.4
85°	1328.8	1056.4	788.0	636.2	505.8	408.6	332.7	321.0
87.5°	35.0	35.0	35.0	35.0	35.0	37.0	37.0	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)