

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: P189901

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189901
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-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K 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: 26579 lumens
Efficiency: N/A
Efficacy: 126.6 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

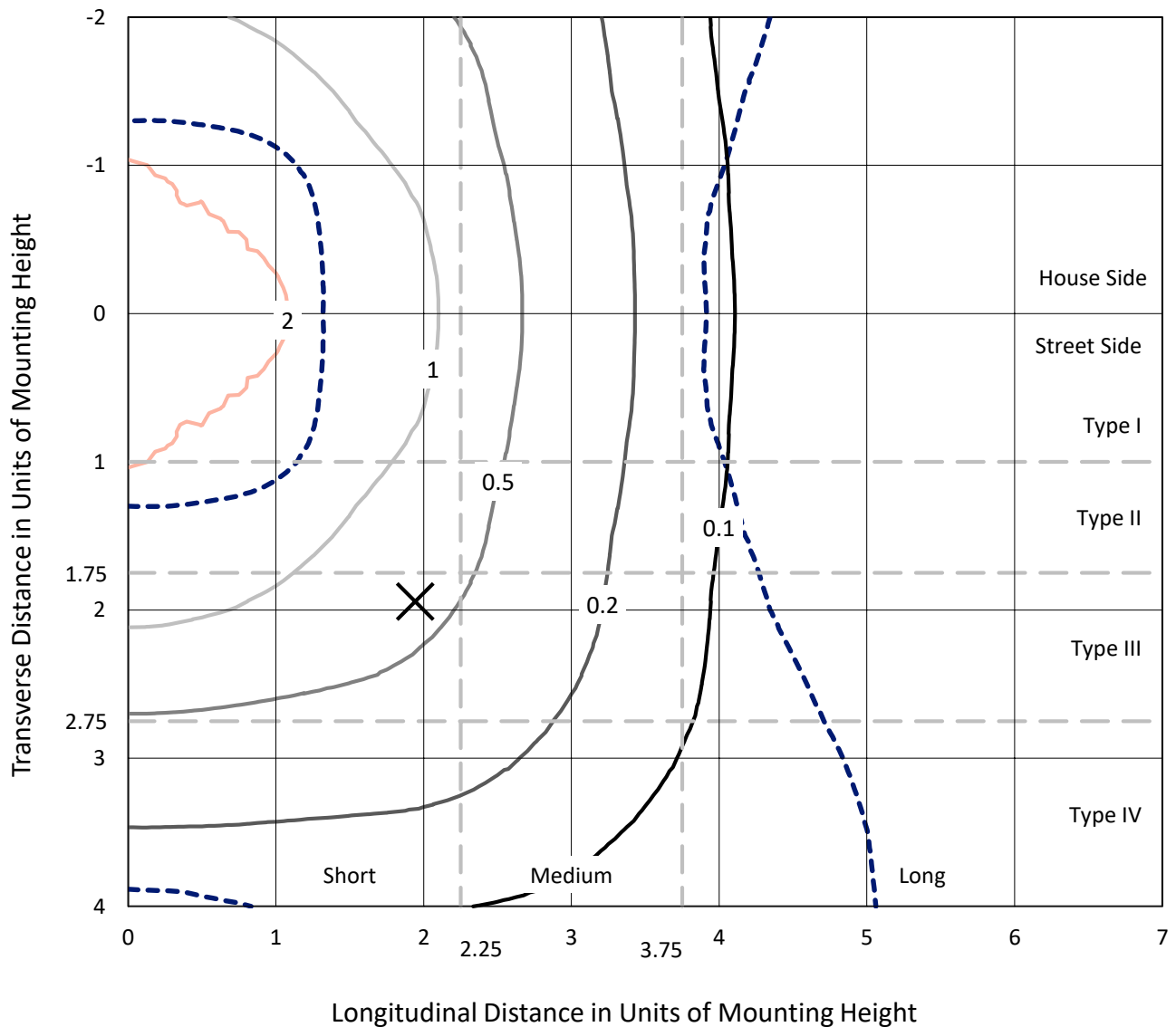
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

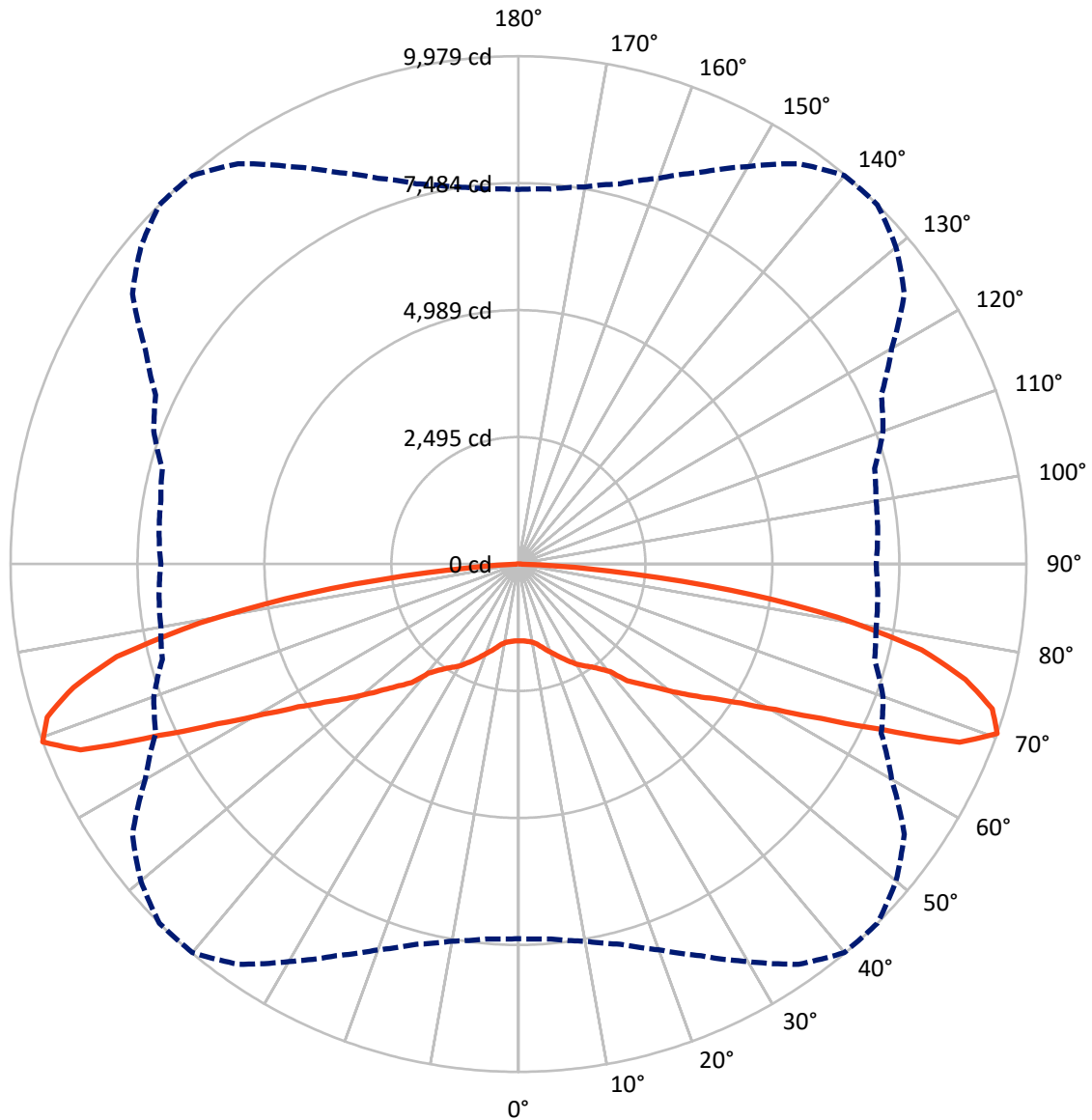


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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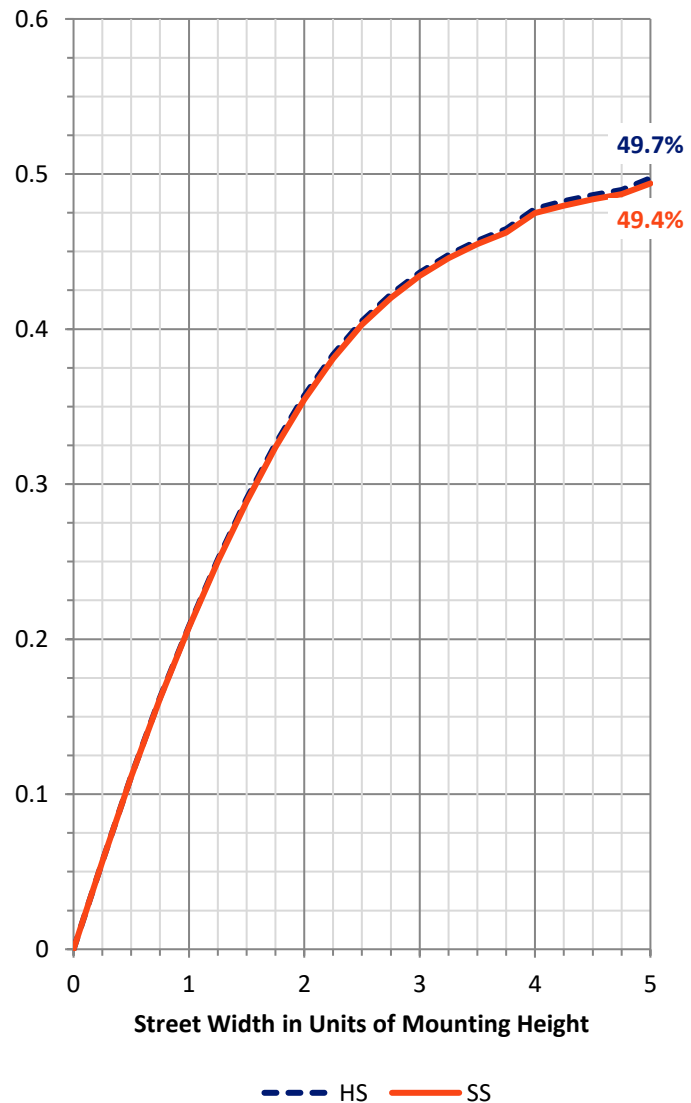
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13289.5	0.0	13289.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13289.5	0.0	13289.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26579.0	0.0	26579.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	0.6
10°-20°	481.7	1.8
20°-30°	934.7	3.5
30°-40°	1562.4	5.9
40°-50°	2720.7	10.2
50°-60°	4638.5	17.5
60°-70°	7641.8	28.8
70°-80°	6992.5	26.3
80°-90°	1459.5	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°	26579.0	100.0
0°-180°	26579.0	100.0



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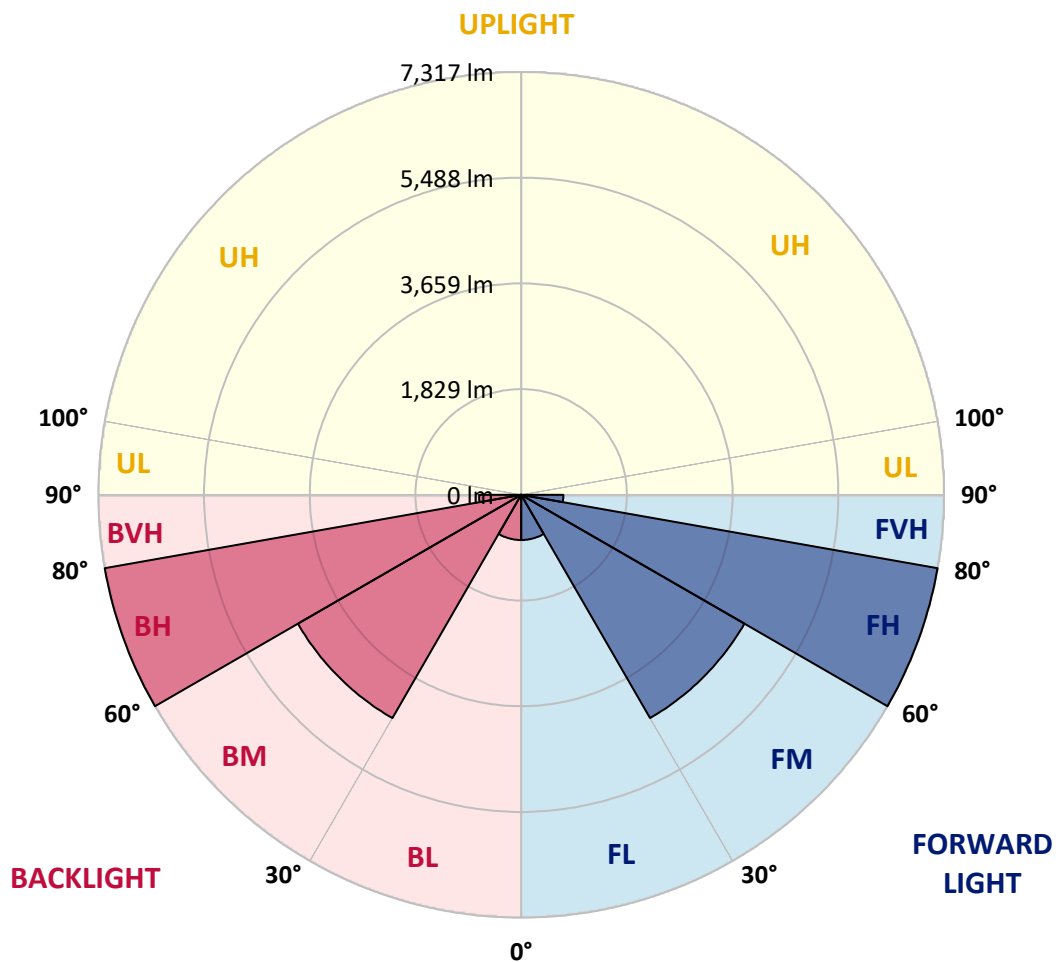
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	781.8	2.9			
FM	(30°-60°)	4460.8	16.8			
FH	(60°-80°)	7317.2	27.5			G3/7500
FVH	(80°-90°)	729.8	2.7			G4/750
BL	(0°-30°)	781.8	2.9	B2/1000		
BM	(30°-60°)	4460.8	16.8	B3/5000		
BH	(60°-80°)	7317.2	27.5	B5		G3/7500
BVH	(80°-90°)	729.8	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°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1528.4	1528.4	1528.4	1525.0	1525.0	1516.4	1516.4	1509.5	1504.3	1509.5	1506.0
5°	1545.6	1542.2	1540.5	1537.0	1537.0	1531.9	1528.4	1521.5	1519.8	1523.2	1519.8
7.5°	1566.3	1562.9	1557.7	1554.3	1557.7	1552.5	1549.1	1540.5	1540.5	1538.8	1538.8
10°	1595.6	1590.5	1588.7	1585.3	1588.7	1578.4	1578.4	1571.5	1568.1	1564.6	1566.3
12.5°	1635.3	1631.8	1630.1	1626.6	1626.6	1623.2	1626.6	1616.3	1614.6	1614.6	1616.3
15°	1693.8	1688.7	1686.9	1683.5	1683.5	1686.9	1688.7	1683.5	1688.7	1688.7	1683.5
17.5°	1764.5	1757.6	1757.6	1754.1	1757.6	1761.0	1766.2	1766.2	1771.4	1773.1	1766.2
20°	1838.6	1831.7	1830.0	1828.2	1835.1	1838.6	1848.9	1857.5	1864.4	1859.3	1845.5
22.5°	1917.8	1911.0	1907.5	1902.3	1909.2	1917.8	1942.0	1959.2	1966.1	1959.2	1942.0
25°	2002.3	1998.8	1997.1	1988.5	1985.0	2002.3	2033.3	2055.7	2069.5	2064.3	2050.5
27.5°	2093.6	2088.4	2086.7	2076.4	2074.7	2078.1	2110.8	2155.6	2169.4	2174.6	2159.1
30°	2184.9	2179.8	2178.0	2172.9	2169.4	2169.4	2186.7	2233.2	2276.3	2290.0	2255.6
32.5°	2303.8	2296.9	2295.2	2284.9	2281.4	2283.2	2293.5	2315.9	2362.4	2386.5	2343.5
35°	2450.3	2443.4	2431.3	2426.2	2417.6	2419.3	2426.2	2446.8	2469.2	2483.0	2460.6
37.5°	2605.4	2598.5	2591.6	2584.7	2572.6	2572.6	2576.1	2591.6	2612.3	2615.7	2598.5
40°	2829.4	2831.1	2803.5	2794.9	2770.8	2765.6	2767.4	2774.2	2786.3	2777.7	2781.1
42.5°	3208.5	3180.9	3155.1	3146.4	3122.3	3115.4	3112.0	3118.9	3125.8	3134.4	3144.7
45°	3572.1	3558.3	3523.8	3489.3	3442.8	3406.6	3361.8	3332.5	3330.8	3354.9	3358.4
47.5°	3999.4	3977.0	3925.3	3877.0	3804.7	3737.5	3661.7	3613.4	3599.6	3620.3	3622.0
50°	4485.3	4459.5	4399.2	4337.1	4244.1	4159.6	4042.5	3966.7	3937.4	3944.2	3940.8
52.5°	4983.3	4957.5	4883.4	4829.9	4733.4	4619.7	4478.4	4363.0	4304.4	4292.3	4275.1
55°	5548.5	5520.9	5443.4	5384.8	5265.9	5145.3	4966.1	4817.9	4723.1	4671.4	4659.3
57.5°	6136.1	6103.3	6043.0	5948.3	5860.4	5703.6	5541.6	5362.4	5228.0	5152.2	5133.2
60°	6739.2	6711.6	6649.6	6599.6	6510.0	6396.3	6210.2	6031.0	5884.5	5808.7	5763.9
62.5°	7392.2	7375.0	7328.5	7295.7	7225.1	7097.6	7006.3	6863.2	6766.7	6684.0	6627.2
65°	8109.1	8103.9	8102.2	8114.2	8098.7	8036.7	7993.6	7897.1	7864.4	7824.7	7740.3
67.5°	7995.3	8024.6	8114.2	8231.4	8395.1	8577.8	8813.8	9006.8	9206.7	9346.3	9165.3
70°	7359.5	7395.7	7524.9	7733.4	8066.0	8493.3	9018.9	9601.3	9964.9	9978.7	9685.7
72.5°	6563.4	6596.2	6703.0	7002.8	7380.2	8026.3	8896.5	9549.6	9783.9	9737.4	9434.1
75°	5317.6	5386.5	5677.7	5975.8	6494.5	7194.1	8210.7	8903.4	9210.1	9074.0	8693.2
77.5°	3820.2	3818.5	4023.5	4466.4	4960.9	5798.3	6858.1	7762.7	8145.2	8098.7	7800.6
80°	2069.5	2143.6	2365.9	2731.2	3242.9	3958.0	4883.4	5741.5	6211.9	6365.3	6210.2
82.5°	923.6	963.2	1116.6	1414.7	1733.5	2257.3	2910.4	3561.7	4011.5	4199.3	4058.0
85°	291.2	301.5	356.7	501.4	658.2	933.9	1304.4	1716.2	1935.1	1788.6	1538.8
87.5°	70.6	74.1	91.3	143.0	210.2	292.9	265.4	224.0	160.3	81.0	50.0
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°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1506.0	1504.3	1506.0	1507.7	1507.7	1506.0	1506.0	1509.5
5°	1521.5	1519.8	1521.5	1526.7	1525.0	1526.7	1525.0	1530.1
7.5°	1537.0	1535.3	1533.6	1538.8	1538.8	1540.5	1538.8	1542.2
10°	1564.6	1564.6	1562.9	1564.6	1561.2	1561.2	1557.7	1556.0
12.5°	1611.1	1609.4	1611.1	1606.0	1602.5	1600.8	1597.3	1592.2
15°	1680.1	1674.9	1676.6	1662.8	1661.1	1659.4	1655.9	1652.5
17.5°	1755.9	1743.8	1742.1	1726.6	1728.3	1723.1	1718.0	1718.0
20°	1835.1	1821.4	1812.7	1799.0	1797.2	1795.5	1786.9	1790.3
22.5°	1926.5	1905.8	1893.7	1881.7	1874.8	1878.2	1871.3	1874.8
25°	2029.8	1998.8	1973.0	1971.3	1969.5	1973.0	1971.3	1971.3
27.5°	2124.6	2078.1	2060.9	2069.5	2069.5	2072.9	2079.8	2078.1
30°	2198.7	2169.4	2162.5	2179.8	2179.8	2183.2	2190.1	2191.8
32.5°	2305.6	2290.0	2291.8	2314.2	2315.9	2324.5	2333.1	2340.0
35°	2441.7	2436.5	2450.3	2474.4	2481.3	2491.6	2507.2	2517.5
37.5°	2593.3	2605.4	2620.9	2648.5	2669.1	2682.9	2701.9	2712.2
40°	2810.4	2839.7	2865.6	2898.3	2915.5	2939.7	2962.1	2977.6
42.5°	3179.2	3198.1	3217.1	3244.7	3274.0	3294.6	3308.4	3318.8
45°	3403.2	3437.6	3485.9	3541.0	3596.2	3642.7	3678.9	3684.1
47.5°	3670.3	3723.7	3790.9	3877.0	3951.1	3995.9	4023.5	4039.0
50°	3990.8	4056.3	4151.0	4252.7	4337.1	4399.2	4433.6	4457.7
52.5°	4337.1	4419.8	4537.0	4662.8	4766.2	4828.2	4885.1	4912.7
55°	4730.0	4843.7	4988.5	5140.1	5253.8	5334.8	5376.2	5410.6
57.5°	5224.5	5367.6	5538.1	5688.1	5808.7	5896.6	5955.1	5984.4
60°	5879.3	6022.3	6174.0	6320.4	6456.6	6516.9	6568.6	6591.0
62.5°	6682.3	6790.9	6913.2	7018.3	7147.6	7235.4	7292.3	7309.5
65°	7735.1	7783.4	7917.8	8035.0	8035.0	8016.0	8007.4	7993.6
67.5°	8788.0	8464.0	8210.7	8086.7	7954.0	7854.0	7797.2	7762.7
70°	9256.7	8467.5	7866.1	7623.1	7244.0	7135.5	7087.2	7026.9
72.5°	8870.7	7959.1	7109.6	6901.1	6392.8	6451.4	6213.6	6113.7
75°	8055.6	7161.3	6401.4	5927.6	5677.7	5364.1	5236.6	5253.8
77.5°	7213.0	6218.8	5391.7	4912.7	4614.5	4306.1	4233.7	4235.5
80°	5586.4	4688.6	3987.3	3529.0	3172.3	2913.8	2703.6	2639.8
82.5°	3453.2	2850.1	2364.1	2045.4	1754.1	1526.7	1313.0	1285.5
85°	1176.9	935.7	697.9	563.5	448.0	361.9	294.7	284.3
87.5°	31.0	31.0	31.0	31.0	31.0	32.7	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)