

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: P200775

Luminaire Tested: **VERD-M-A0485-E-U-T5-7050-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200775
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-T5-7050-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K 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: 26206 lumens
Efficiency: N/A
Efficacy: 124.8 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 - G4

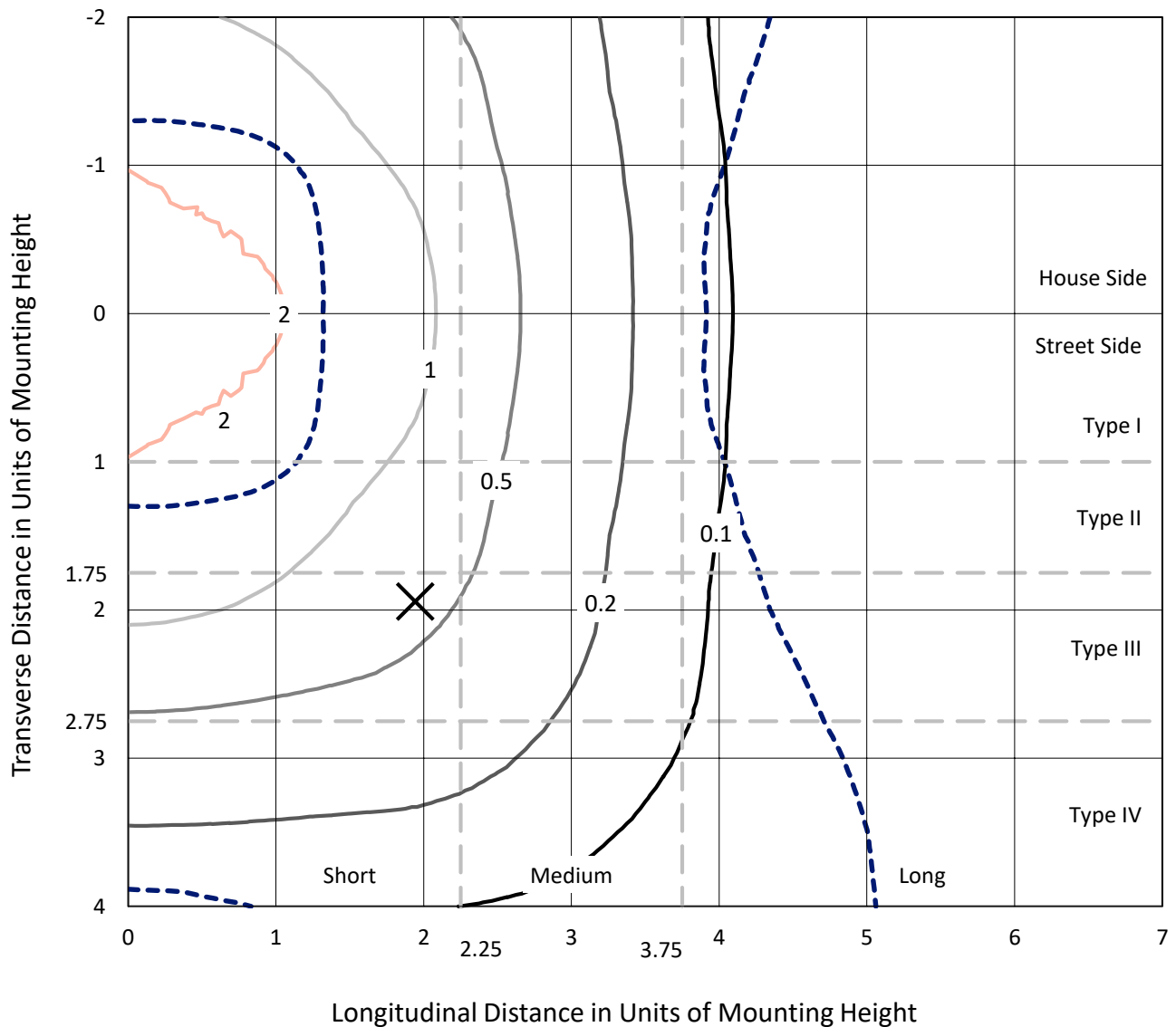
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

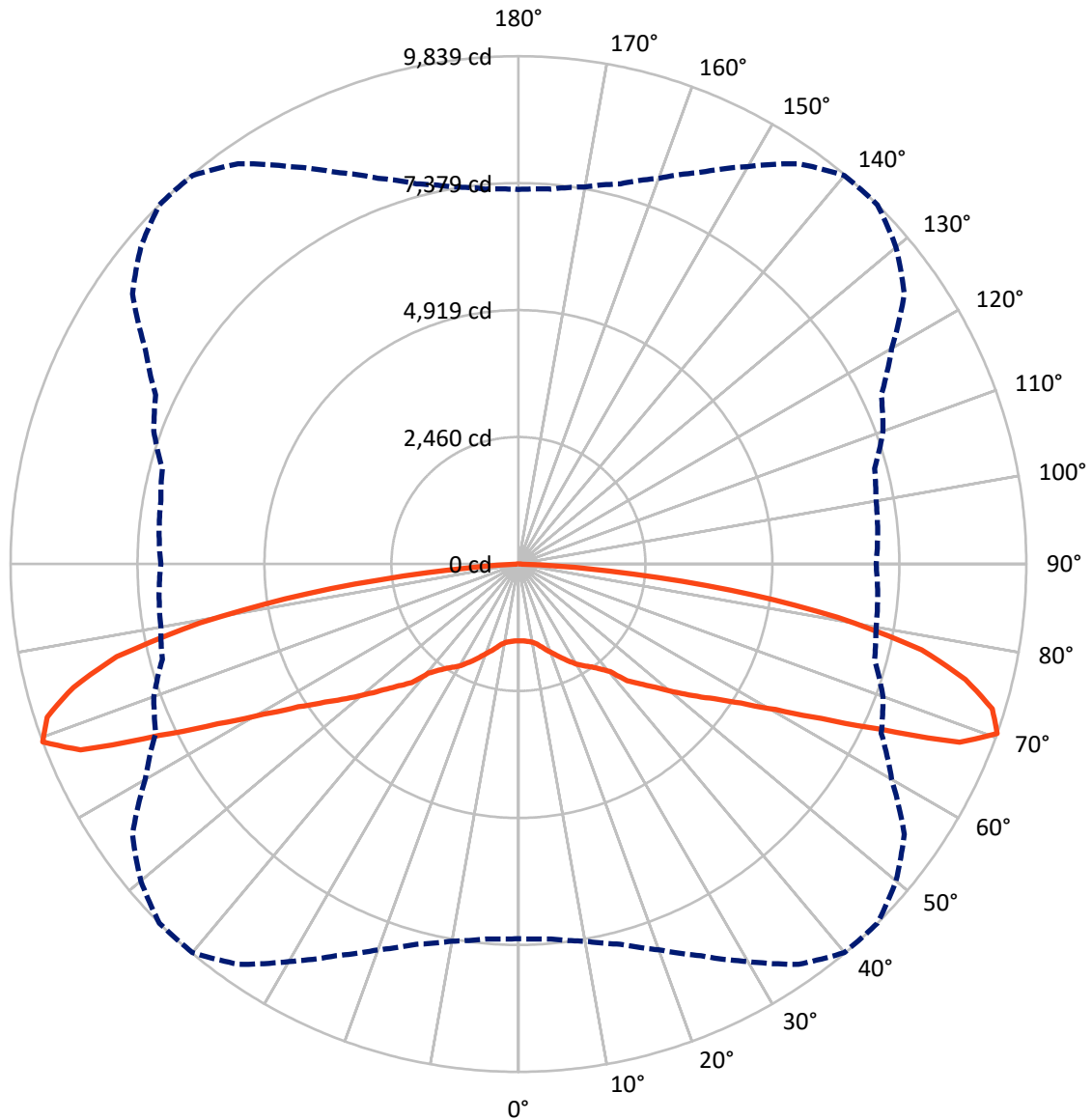
✕ Max cd
 - - - 1/2 Max cd



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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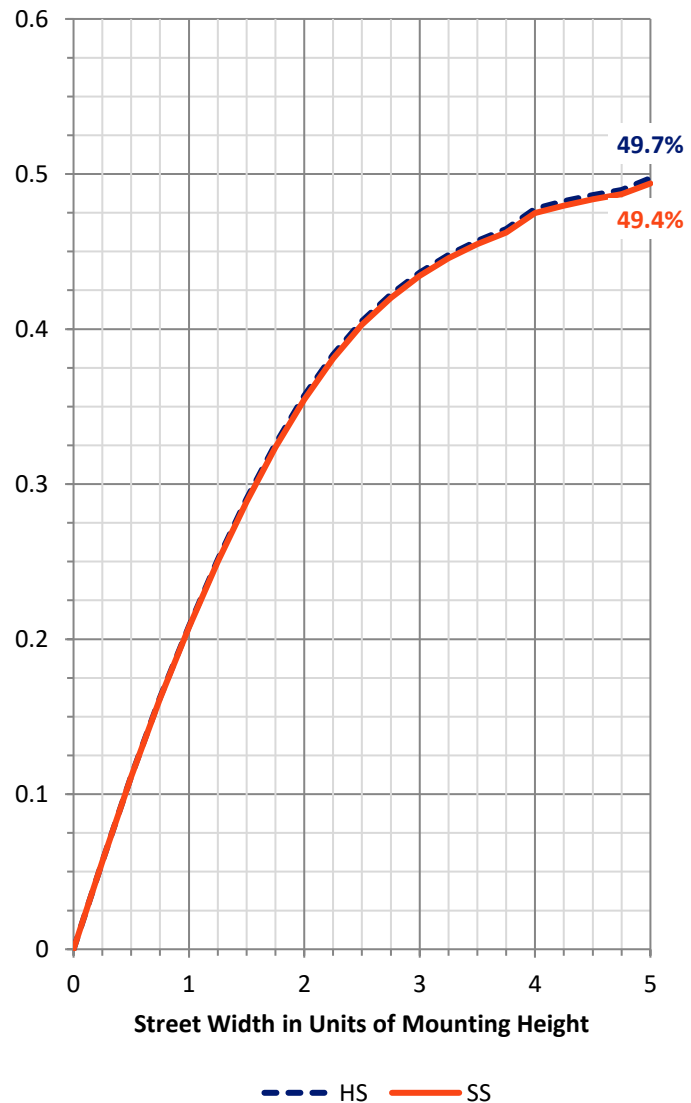
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13103.0	0.0	13103.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13103.0	0.0	13103.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26206.0	0.0	26206.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	0.6
10°-20°	474.9	1.8
20°-30°	921.6	3.5
30°-40°	1540.5	5.9
40°-50°	2682.5	10.2
50°-60°	4573.4	17.5
60°-70°	7534.6	28.8
70°-80°	6894.4	26.3
80°-90°	1439.0	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°	26206.0	100.0
0°-180°	26206.0	100.0



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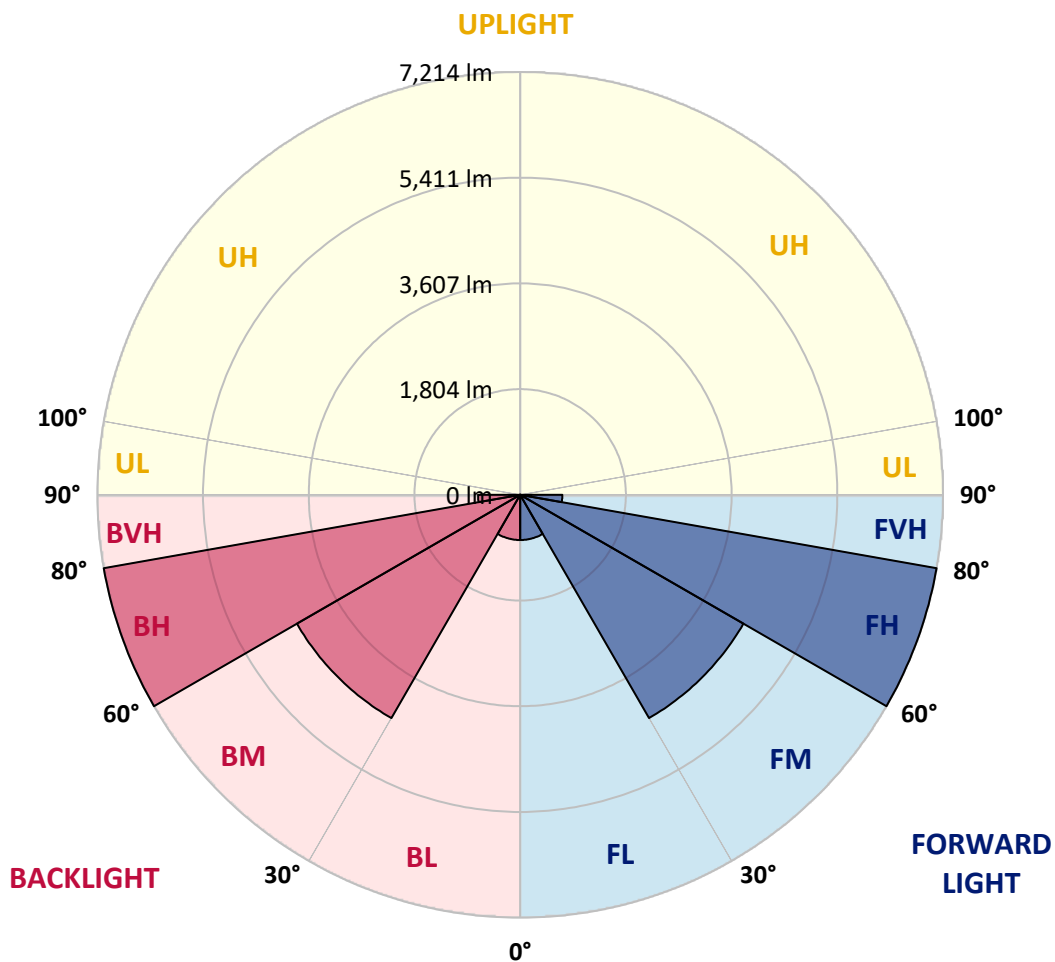
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	770.8	2.9			
FM	(30°-60°)	4398.2	16.8			
FH	(60°-80°)	7214.5	27.5			G3/7500
FVH	(80°-90°)	719.5	2.7			G4/750
BL	(0°-30°)	770.8	2.9	B2/1000		
BM	(30°-60°)	4398.2	16.8	B3/5000		
BH	(60°-80°)	7214.5	27.5	B5		G3/7500
BVH	(80°-90°)	719.5	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°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1507.0	1507.0	1507.0	1503.6	1503.6	1495.1	1495.1	1488.3	1483.2	1488.3	1484.9
5°	1524.0	1520.6	1518.9	1515.5	1515.5	1510.4	1507.0	1500.2	1498.5	1501.9	1498.5
7.5°	1544.3	1540.9	1535.9	1532.5	1535.9	1530.8	1527.4	1518.9	1518.9	1517.2	1517.2
10°	1573.2	1568.1	1566.4	1563.0	1566.4	1556.2	1556.2	1549.4	1546.0	1542.6	1544.3
12.5°	1612.3	1608.9	1607.2	1603.8	1603.8	1600.4	1603.8	1593.6	1591.9	1591.9	1593.6
15°	1670.1	1665.0	1663.3	1659.9	1659.9	1663.3	1665.0	1659.9	1665.0	1665.0	1659.9
17.5°	1739.7	1732.9	1732.9	1729.5	1732.9	1736.3	1741.4	1741.4	1746.5	1748.2	1741.4
20°	1812.8	1806.0	1804.3	1802.6	1809.4	1812.8	1823.0	1831.5	1838.3	1833.2	1819.6
22.5°	1890.9	1884.1	1880.7	1875.6	1882.4	1890.9	1914.7	1931.7	1938.5	1931.7	1914.7
25°	1974.2	1970.8	1969.1	1960.6	1957.2	1974.2	2004.8	2026.8	2040.4	2035.3	2021.8
27.5°	2064.2	2059.1	2057.4	2047.2	2045.5	2048.9	2081.2	2125.4	2139.0	2144.1	2128.8
30°	2154.3	2149.2	2147.5	2142.4	2139.0	2139.0	2156.0	2201.8	2244.3	2257.9	2223.9
32.5°	2271.5	2264.7	2263.0	2252.8	2249.4	2251.1	2261.3	2283.4	2329.3	2353.0	2310.6
35°	2415.9	2409.1	2397.2	2392.1	2383.6	2385.3	2392.1	2412.5	2434.6	2448.2	2426.1
37.5°	2568.8	2562.0	2555.2	2548.4	2536.5	2536.5	2539.9	2555.2	2575.6	2579.0	2562.0
40°	2789.7	2791.4	2764.2	2755.7	2731.9	2726.8	2728.5	2735.3	2747.2	2738.7	2742.1
42.5°	3163.4	3136.3	3110.8	3102.3	3078.5	3071.7	3068.3	3075.1	3081.9	3090.4	3100.6
45°	3521.9	3508.3	3474.4	3440.4	3394.5	3358.8	3314.7	3285.8	3284.1	3307.9	3311.3
47.5°	3943.3	3921.2	3870.2	3822.6	3751.3	3685.0	3610.3	3562.7	3549.1	3569.5	3571.2
50°	4422.4	4396.9	4337.4	4276.3	4184.5	4101.3	3985.7	3911.0	3882.1	3888.9	3885.5
52.5°	4913.4	4887.9	4814.8	4762.2	4667.0	4554.9	4415.6	4301.7	4244.0	4232.1	4215.1
55°	5470.6	5443.4	5367.0	5309.2	5192.0	5073.1	4896.4	4750.3	4656.8	4605.9	4594.0
57.5°	6050.0	6017.7	5958.2	5864.8	5778.1	5623.5	5463.8	5287.1	5154.6	5079.9	5061.2
60°	6644.6	6617.4	6556.2	6507.0	6418.6	6306.5	6123.0	5946.3	5801.9	5727.2	5683.0
62.5°	7288.5	7271.5	7225.6	7193.4	7123.7	6998.0	6907.9	6766.9	6671.8	6590.2	6534.2
65°	7995.3	7990.2	7988.5	8000.4	7985.1	7923.9	7881.4	7786.3	7754.0	7714.9	7631.7
67.5°	7883.1	7912.0	8000.4	8115.9	8277.3	8457.4	8690.1	8880.4	9077.5	9215.1	9036.7
70°	7256.2	7291.9	7419.3	7624.9	7952.8	8374.1	8892.3	9466.6	9825.0	9838.6	9549.8
72.5°	6471.3	6503.6	6608.9	6904.5	7276.6	7913.7	8771.7	9415.6	9646.6	9600.8	9301.8
75°	5243.0	5310.9	5598.0	5892.0	6403.3	7093.1	8095.5	8778.5	9080.9	8946.7	8571.2
77.5°	3766.6	3764.9	3967.0	4403.7	4891.3	5717.0	6761.8	7653.8	8030.9	7985.1	7691.1
80°	2040.4	2113.5	2332.7	2692.8	3197.4	3902.5	4814.8	5660.9	6124.7	6275.9	6123.0
82.5°	910.6	949.7	1100.9	1394.8	1709.1	2225.6	2869.5	3511.7	3955.2	4140.3	4001.0
85°	287.1	297.3	351.7	494.4	649.0	920.8	1286.1	1692.2	1907.9	1763.5	1517.2
87.5°	69.7	73.1	90.0	141.0	207.3	288.8	261.6	220.9	158.0	79.9	49.3
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°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1484.9	1483.2	1484.9	1486.6	1486.6	1484.9	1484.9	1488.3
5°	1500.2	1498.5	1500.2	1505.3	1503.6	1505.3	1503.6	1508.7
7.5°	1515.5	1513.8	1512.1	1517.2	1517.2	1518.9	1517.2	1520.6
10°	1542.6	1542.6	1540.9	1542.6	1539.2	1539.2	1535.9	1534.2
12.5°	1588.5	1586.8	1588.5	1583.4	1580.0	1578.3	1574.9	1569.8
15°	1656.5	1651.4	1653.1	1639.5	1637.8	1636.1	1632.7	1629.3
17.5°	1731.2	1719.3	1717.6	1702.3	1704.0	1699.0	1693.9	1693.9
20°	1809.4	1795.8	1787.3	1773.7	1772.0	1770.3	1761.8	1765.2
22.5°	1899.4	1879.0	1867.1	1855.3	1848.5	1851.9	1845.1	1848.5
25°	2001.4	1970.8	1945.3	1943.6	1941.9	1945.3	1943.6	1943.6
27.5°	2094.8	2048.9	2031.9	2040.4	2040.4	2043.8	2050.6	2048.9
30°	2167.9	2139.0	2132.2	2149.2	2149.2	2152.6	2159.4	2161.1
32.5°	2273.2	2257.9	2259.6	2281.7	2283.4	2291.9	2300.4	2307.2
35°	2407.4	2402.3	2415.9	2439.7	2446.5	2456.7	2472.0	2482.2
37.5°	2556.9	2568.8	2584.1	2611.3	2631.7	2645.3	2664.0	2674.1
40°	2771.0	2799.9	2825.4	2857.6	2874.6	2898.4	2920.5	2935.8
42.5°	3134.6	3153.3	3171.9	3199.1	3228.0	3248.4	3262.0	3272.2
45°	3355.4	3389.4	3437.0	3491.3	3545.7	3591.6	3627.3	3632.4
47.5°	3618.8	3671.4	3737.7	3822.6	3895.7	3939.9	3967.0	3982.3
50°	3934.8	3999.3	4092.8	4193.0	4276.3	4337.4	4371.4	4395.2
52.5°	4276.3	4357.8	4473.3	4597.4	4699.3	4760.5	4816.5	4843.7
55°	4663.6	4775.7	4918.5	5068.0	5180.1	5260.0	5300.7	5334.7
57.5°	5151.2	5292.2	5460.4	5608.2	5727.2	5813.8	5871.6	5900.5
60°	5796.8	5937.8	6087.3	6231.8	6366.0	6425.4	6476.4	6498.5
62.5°	6588.5	6695.6	6816.2	6919.8	7047.2	7133.9	7190.0	7206.9
65°	7626.6	7674.2	7806.7	7922.2	7922.2	7903.5	7895.0	7881.4
67.5°	8664.6	8345.2	8095.5	7973.2	7842.4	7743.8	7687.8	7653.8
70°	9126.8	8348.6	7755.7	7516.2	7142.4	7035.4	6987.8	6928.3
72.5°	8746.2	7847.5	7009.9	6804.3	6303.1	6360.9	6126.4	6027.9
75°	7942.6	7060.8	6311.6	5844.4	5598.0	5288.8	5163.1	5180.1
77.5°	7111.8	6131.5	5316.0	4843.7	4549.8	4245.7	4174.3	4176.0
80°	5508.0	4622.8	3931.4	3479.5	3127.8	2872.9	2665.7	2602.8
82.5°	3404.7	2810.1	2331.0	2016.7	1729.5	1505.3	1294.6	1267.4
85°	1160.4	922.5	688.1	555.6	441.7	356.8	290.5	280.3
87.5°	30.6	30.6	30.6	30.6	30.6	32.3	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)