

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: P189898

Luminaire Tested: **VERD-M-A03-E-U-T5-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189898
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-A03-E-U-T5-7030-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 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: 21720 lumens
Efficiency: N/A
Efficacy: 119.3 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

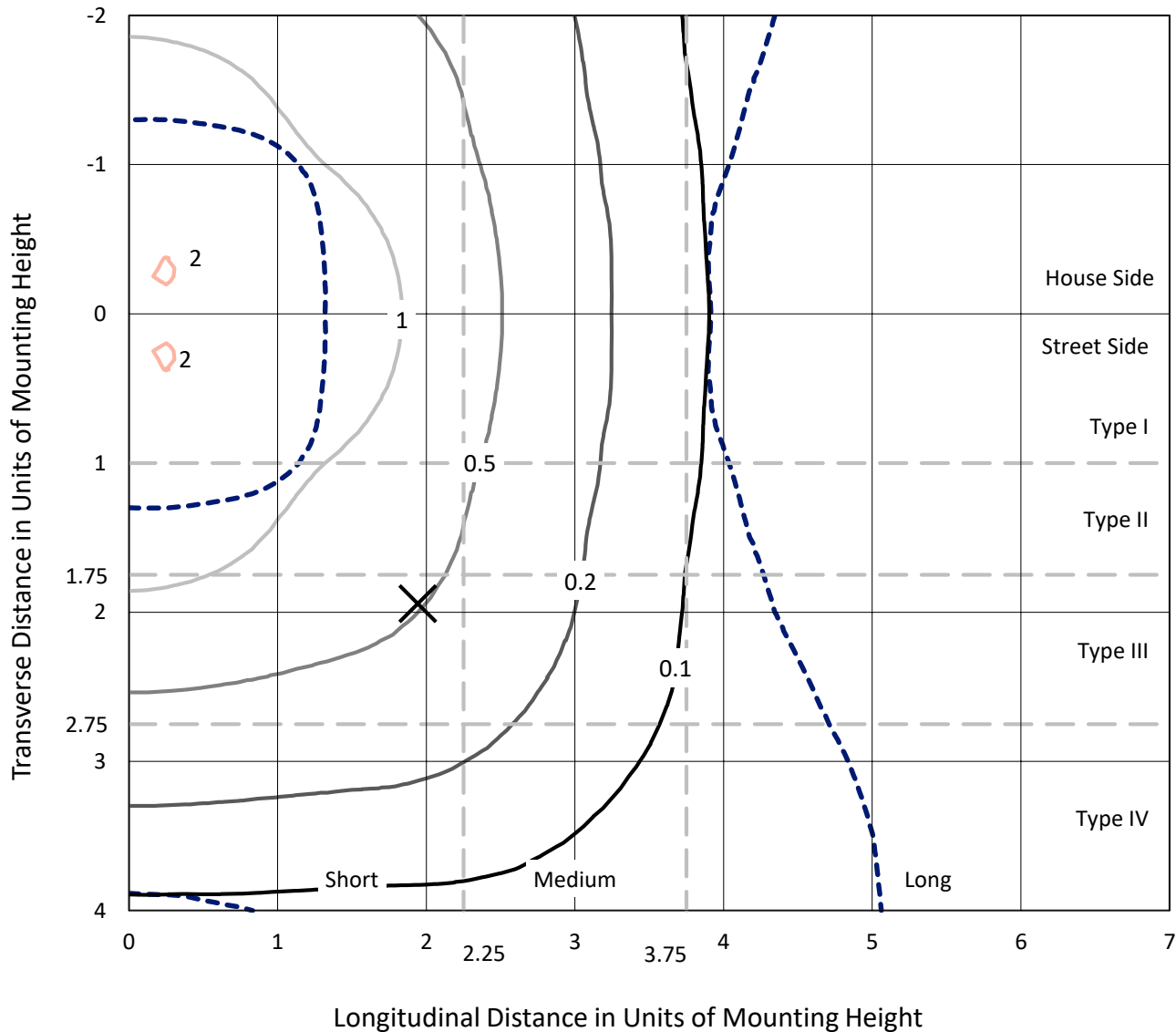
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

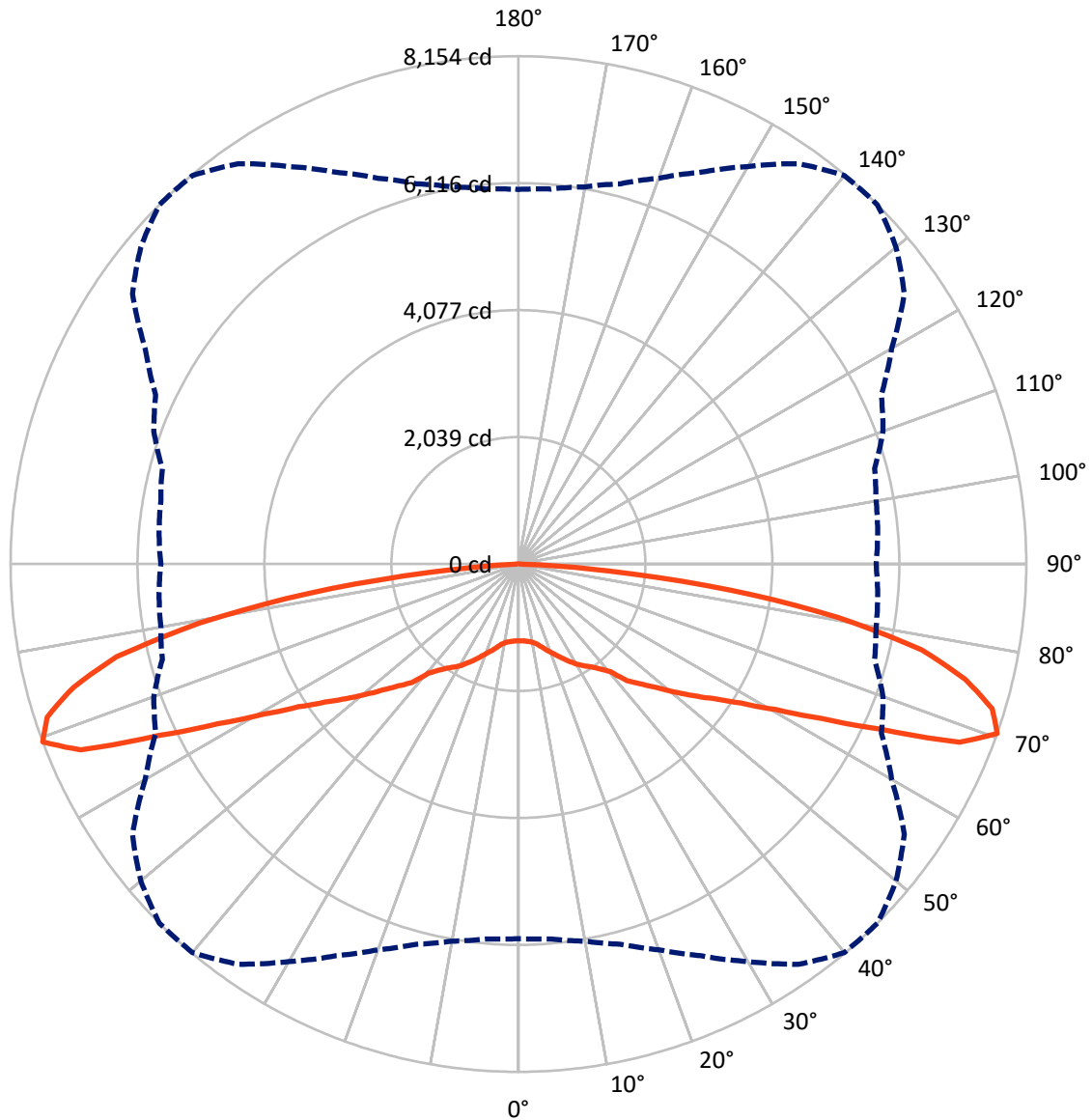
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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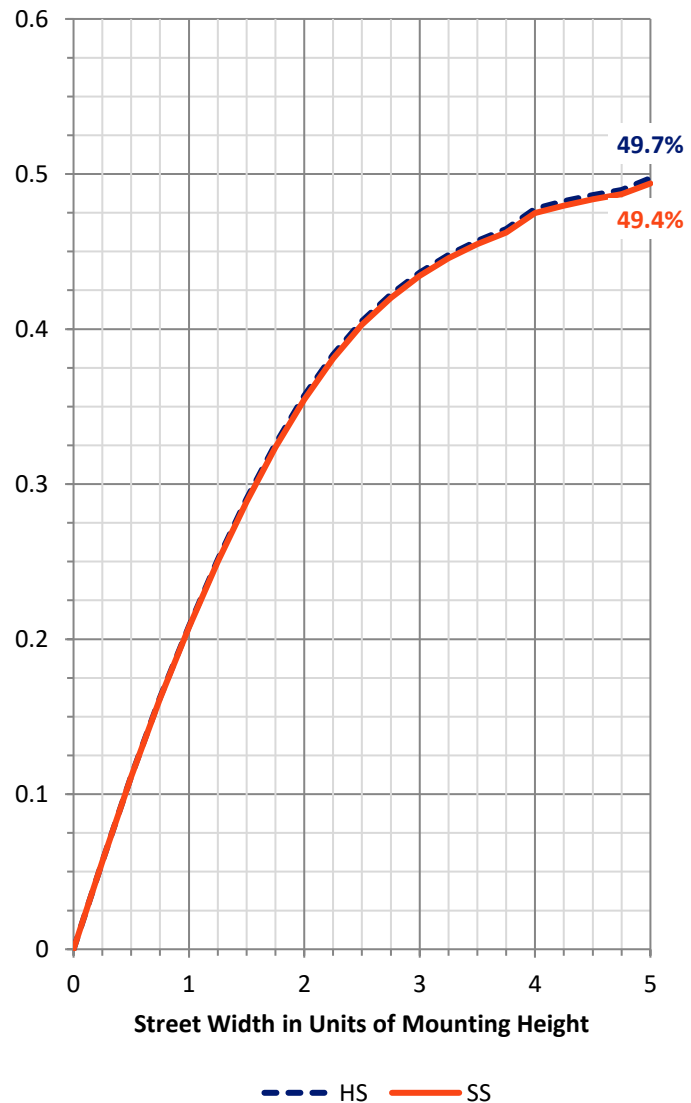
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10860.0	0.0	10860.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10860.0	0.0	10860.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21720.0	0.0	21720.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	0.6
10°-20°	393.6	1.8
20°-30°	763.8	3.5
30°-40°	1276.8	5.9
40°-50°	2223.3	10.2
50°-60°	3790.5	17.5
60°-70°	6244.8	28.8
70°-80°	5714.2	26.3
80°-90°	1192.7	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°	21720.0	100.0
0°-180°	21720.0	100.0



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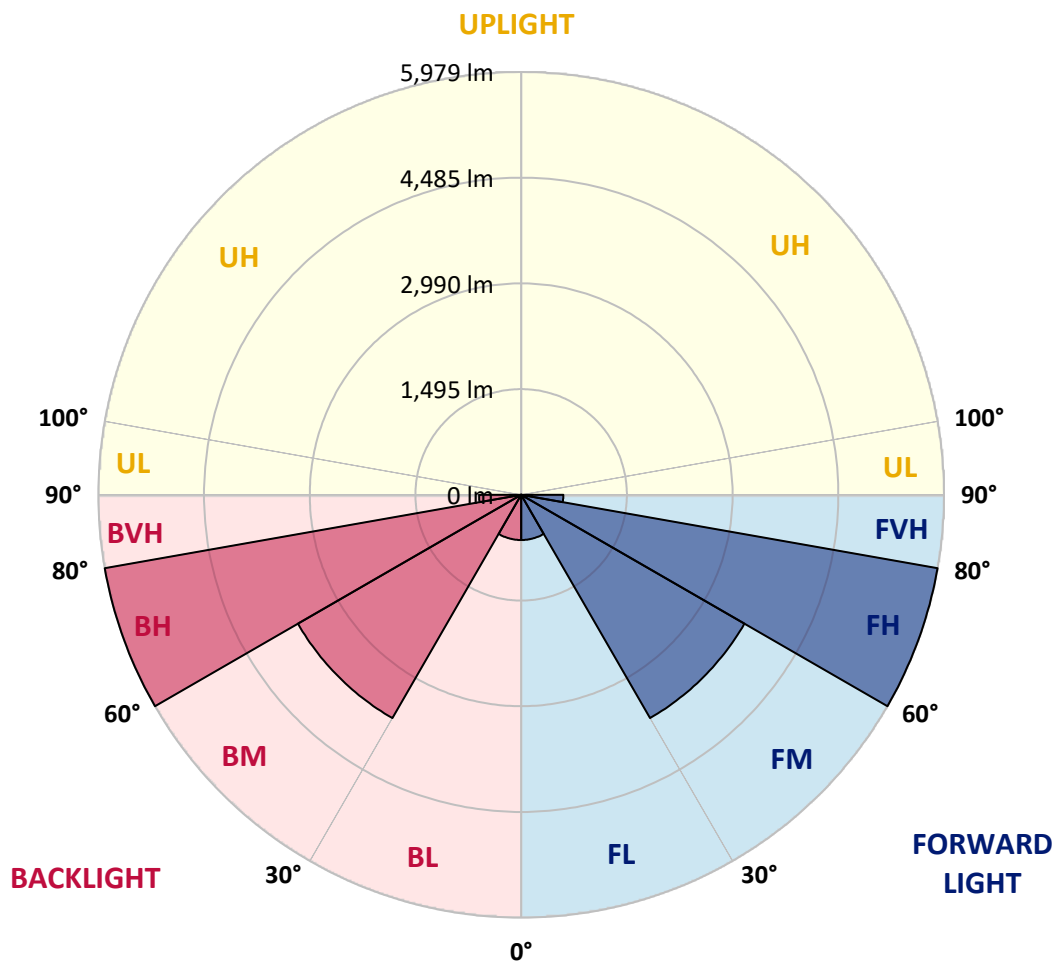
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	638.9	2.9			
FM	(30°-60°)	3645.3	16.8			
FH	(60°-80°)	5979.5	27.5			G3/7500
FVH	(80°-90°)	596.3	2.7			G4/750
BL	(0°-30°)	638.9	2.9	B2/1000		
BM	(30°-60°)	3645.3	16.8	B3/5000		
BH	(60°-80°)	5979.5	27.5	B5		G3/7500
BVH	(80°-90°)	596.3	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°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1249.0	1249.0	1249.0	1246.2	1246.2	1239.1	1239.1	1233.5	1229.3	1233.5	1230.7
5°	1263.1	1260.3	1258.9	1256.0	1256.0	1251.8	1249.0	1243.4	1242.0	1244.8	1242.0
7.5°	1280.0	1277.2	1272.9	1270.1	1272.9	1268.7	1265.9	1258.9	1258.9	1257.5	1257.5
10°	1303.9	1299.7	1298.3	1295.5	1298.3	1289.8	1289.8	1284.2	1281.4	1278.6	1280.0
12.5°	1336.3	1333.5	1332.1	1329.3	1329.3	1326.4	1329.3	1320.8	1319.4	1319.4	1320.8
15°	1384.2	1380.0	1378.5	1375.7	1375.7	1378.5	1380.0	1375.7	1380.0	1380.0	1375.7
17.5°	1441.9	1436.3	1436.3	1433.5	1436.3	1439.1	1443.3	1443.3	1447.5	1449.0	1443.3
20°	1502.5	1496.8	1495.4	1494.0	1499.6	1502.5	1510.9	1518.0	1523.6	1519.4	1508.1
22.5°	1567.2	1561.6	1558.8	1554.6	1560.2	1567.2	1587.0	1601.0	1606.7	1601.0	1587.0
25°	1636.2	1633.4	1632.0	1625.0	1622.2	1636.2	1661.6	1679.9	1691.2	1686.9	1675.7
27.5°	1710.9	1706.6	1705.2	1696.8	1695.4	1698.2	1724.9	1761.6	1772.8	1777.0	1764.4
30°	1785.5	1781.3	1779.9	1775.6	1772.8	1772.8	1786.9	1824.9	1860.1	1871.4	1843.2
32.5°	1882.7	1877.0	1875.6	1867.2	1864.4	1865.8	1874.2	1892.5	1930.5	1950.2	1915.0
35°	2002.3	1996.7	1986.9	1982.6	1975.6	1977.0	1982.6	1999.5	2017.8	2029.1	2010.8
37.5°	2129.1	2123.4	2117.8	2112.2	2102.3	2102.3	2105.1	2117.8	2134.7	2137.5	2123.4
40°	2312.1	2313.5	2291.0	2284.0	2264.3	2260.0	2261.4	2267.1	2276.9	2269.9	2272.7
42.5°	2621.9	2599.4	2578.3	2571.2	2551.5	2545.9	2543.1	2548.7	2554.3	2561.4	2569.8
45°	2919.0	2907.8	2879.6	2851.4	2813.4	2783.9	2747.2	2723.3	2721.9	2741.6	2744.4
47.5°	3268.2	3249.9	3207.7	3168.3	3109.1	3054.2	2992.3	2952.8	2941.6	2958.5	2959.9
50°	3665.3	3644.2	3594.9	3544.2	3468.2	3399.2	3303.5	3241.5	3217.6	3223.2	3220.4
52.5°	4072.3	4051.2	3990.6	3947.0	3868.1	3775.2	3659.7	3565.4	3517.5	3507.6	3493.5
55°	4534.1	4511.6	4448.3	4400.4	4303.2	4204.6	4058.2	3937.1	3859.7	3817.4	3807.6
57.5°	5014.3	4987.6	4938.3	4860.8	4789.0	4660.9	4528.5	4382.1	4272.2	4210.3	4194.8
60°	5507.2	5484.6	5433.9	5393.1	5319.9	5226.9	5074.9	4928.4	4808.7	4746.8	4710.2
62.5°	6040.8	6026.8	5988.7	5962.0	5904.2	5800.0	5725.4	5608.5	5529.7	5462.1	5415.6
65°	6626.6	6622.4	6621.0	6630.8	6618.2	6567.5	6532.3	6453.4	6426.7	6394.3	6325.3
67.5°	6533.7	6557.6	6630.8	6726.6	6860.4	7009.6	7202.5	7360.2	7523.6	7637.6	7489.8
70°	6014.1	6043.7	6149.3	6319.6	6591.4	6940.6	7370.1	7846.0	8143.2	8154.4	7915.0
72.5°	5363.5	5390.3	5477.6	5722.6	6031.0	6559.0	7270.1	7803.8	7995.3	7957.3	7709.5
75°	4345.5	4401.8	4639.8	4883.4	5307.2	5878.9	6709.7	7275.8	7526.4	7415.2	7104.0
77.5°	3121.8	3120.4	3288.0	3649.8	4054.0	4738.3	5604.3	6343.6	6656.2	6618.2	6374.6
80°	1691.2	1751.7	1933.3	2231.9	2650.1	3234.5	3990.6	4691.9	5076.3	5201.6	5074.9
82.5°	754.8	787.1	912.5	1156.1	1416.6	1844.6	2378.3	2910.6	3278.1	3431.6	3316.1
85°	238.0	246.4	291.5	409.8	537.9	763.2	1065.9	1402.5	1581.3	1461.6	1257.5
87.5°	57.7	60.5	74.6	116.9	171.8	239.4	216.9	183.1	131.0	66.2	40.8
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°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1230.7	1229.3	1230.7	1232.1	1232.1	1230.7	1230.7	1233.5
5°	1243.4	1242.0	1243.4	1247.6	1246.2	1247.6	1246.2	1250.4
7.5°	1256.0	1254.6	1253.2	1257.5	1257.5	1258.9	1257.5	1260.3
10°	1278.6	1278.6	1277.2	1278.6	1275.8	1275.8	1272.9	1271.5
12.5°	1316.6	1315.2	1316.6	1312.4	1309.6	1308.1	1305.3	1301.1
15°	1372.9	1368.7	1370.1	1358.8	1357.4	1356.0	1353.2	1350.4
17.5°	1434.9	1425.0	1423.6	1410.9	1412.3	1408.1	1403.9	1403.9
20°	1499.6	1488.4	1481.3	1470.1	1468.7	1467.3	1460.2	1463.0
22.5°	1574.3	1557.4	1547.5	1537.7	1532.0	1534.9	1529.2	1532.0
25°	1658.8	1633.4	1612.3	1610.9	1609.5	1612.3	1610.9	1610.9
27.5°	1736.2	1698.2	1684.1	1691.2	1691.2	1694.0	1699.6	1698.2
30°	1796.8	1772.8	1767.2	1781.3	1781.3	1784.1	1789.7	1791.1
32.5°	1884.1	1871.4	1872.8	1891.1	1892.5	1899.6	1906.6	1912.2
35°	1995.3	1991.1	2002.3	2022.1	2027.7	2036.1	2048.8	2057.3
37.5°	2119.2	2129.1	2141.8	2164.3	2181.2	2192.4	2207.9	2216.4
40°	2296.6	2320.6	2341.7	2368.5	2382.5	2402.3	2420.6	2433.2
42.5°	2598.0	2613.5	2629.0	2651.5	2675.4	2692.3	2703.6	2712.0
45°	2781.0	2809.2	2848.6	2893.7	2938.7	2976.8	3006.3	3010.6
47.5°	2999.3	3042.9	3097.9	3168.3	3228.8	3265.4	3288.0	3300.6
50°	3261.2	3314.7	3392.2	3475.2	3544.2	3594.9	3623.1	3642.8
52.5°	3544.2	3611.8	3707.6	3810.4	3894.9	3945.6	3992.0	4014.6
55°	3865.3	3958.2	4076.5	4200.4	4293.4	4359.5	4393.3	4421.5
57.5°	4269.4	4386.3	4525.7	4648.2	4746.8	4818.6	4866.5	4890.4
60°	4804.5	4921.4	5045.3	5165.0	5276.2	5325.5	5367.8	5386.1
62.5°	5460.7	5549.4	5649.4	5735.3	5840.9	5912.7	5959.2	5973.2
65°	6321.1	6360.5	6470.3	6566.1	6566.1	6550.6	6543.5	6532.3
67.5°	7181.4	6916.7	6709.7	6608.3	6499.9	6418.2	6371.7	6343.6
70°	7564.4	6919.5	6428.1	6229.5	5919.7	5831.0	5791.6	5742.3
72.5°	7249.0	6504.1	5809.9	5639.5	5224.1	5272.0	5077.7	4996.0
75°	6583.0	5852.1	5231.2	4843.9	4639.8	4383.5	4279.3	4293.4
77.5°	5894.4	5081.9	4406.0	4014.6	3770.9	3518.9	3459.8	3461.2
80°	4565.1	3831.5	3258.4	2883.8	2592.3	2381.1	2209.3	2157.2
82.5°	2821.9	2329.0	1931.9	1671.4	1433.5	1247.6	1073.0	1050.5
85°	961.7	764.6	570.3	460.5	366.1	295.7	240.8	232.3
87.5°	25.3	25.3	25.3	25.3	25.3	26.8	26.8	26.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)