

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: P189903

Luminaire Tested: **VERD-M-A0385-E-U-T5-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189903
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-A0385-E-U-T5-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 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: 19690 lumens
Efficiency: N/A
Efficacy: 129.5 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 - G4

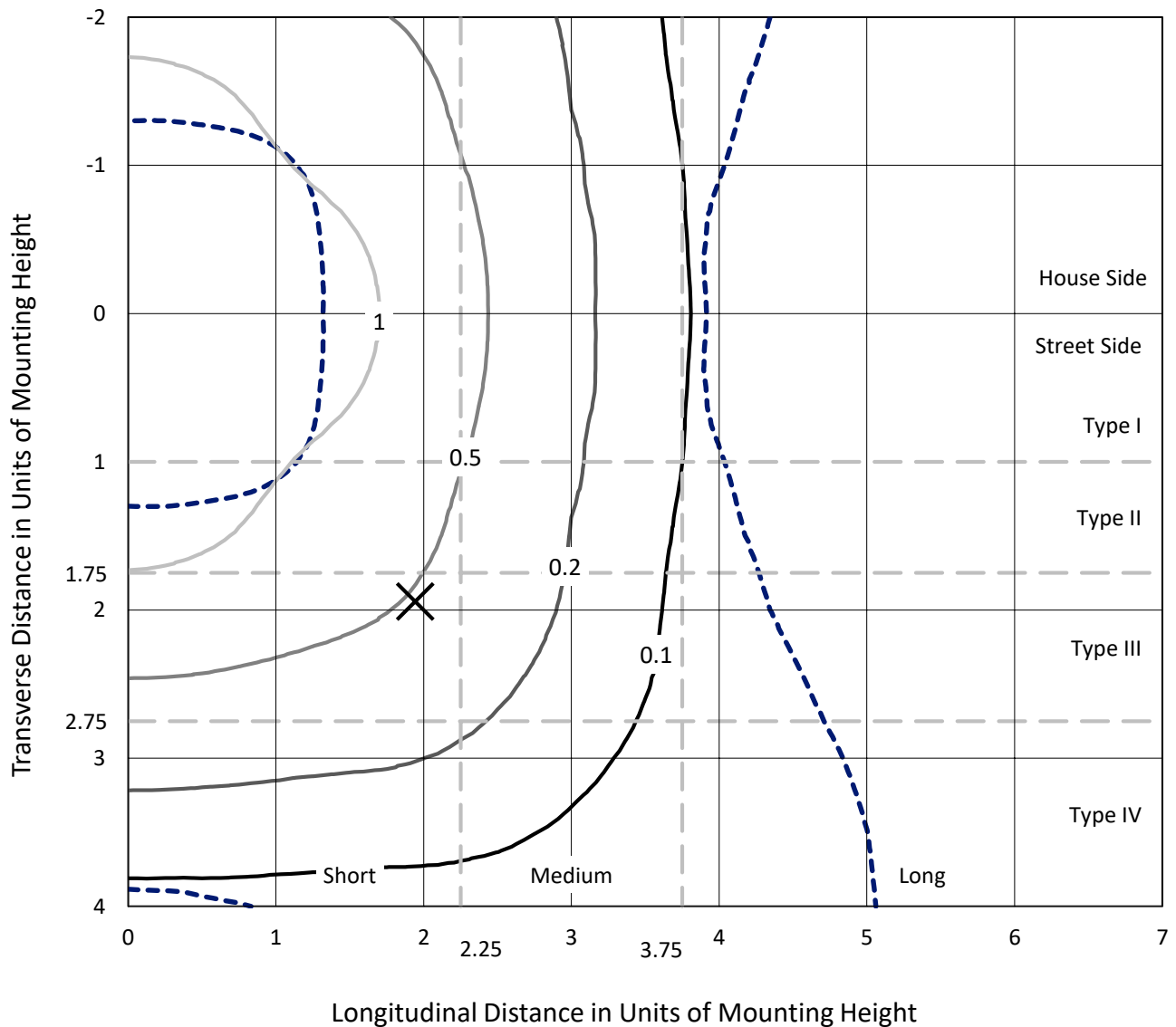
Input Watts (W): 152
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

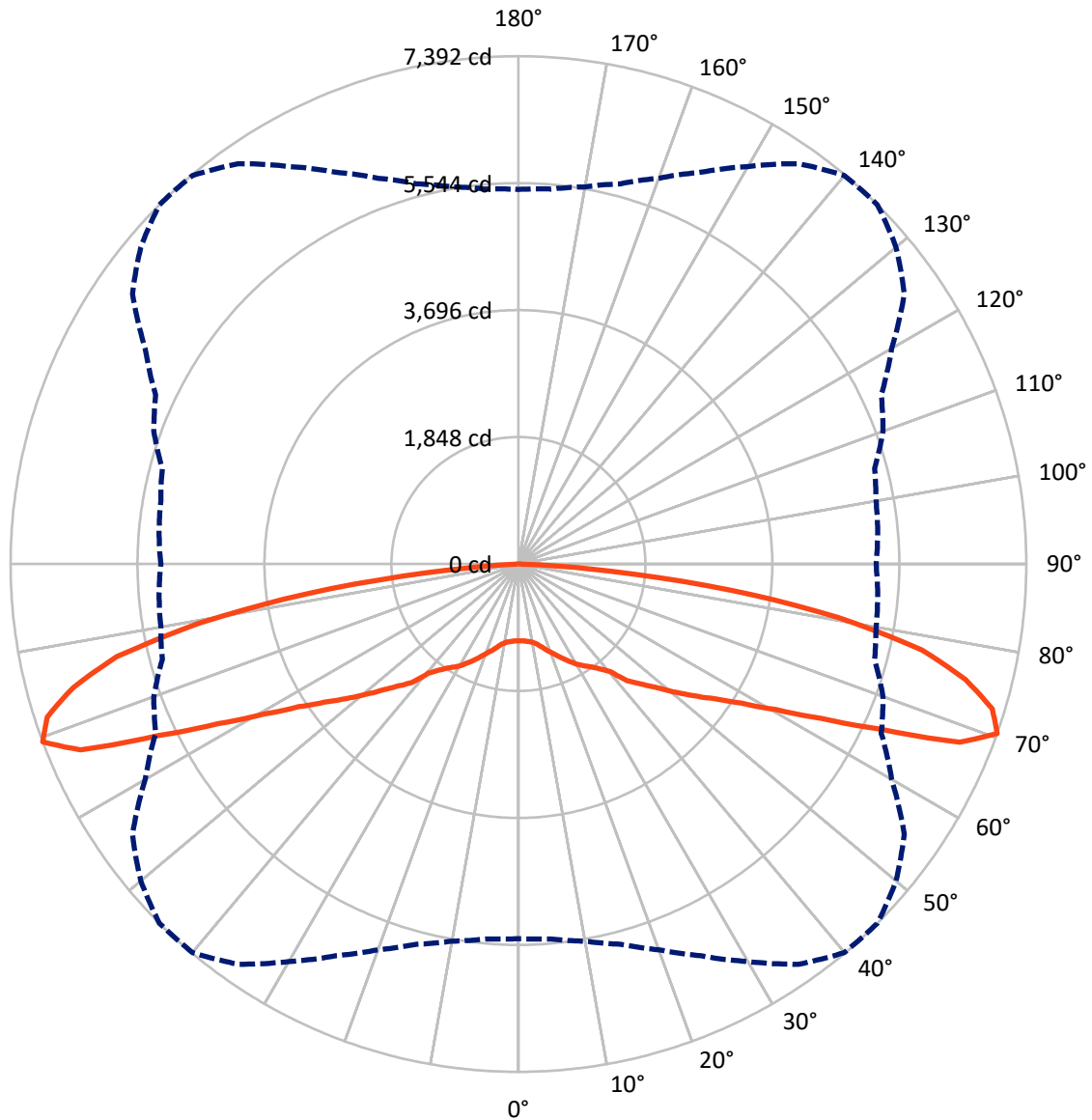
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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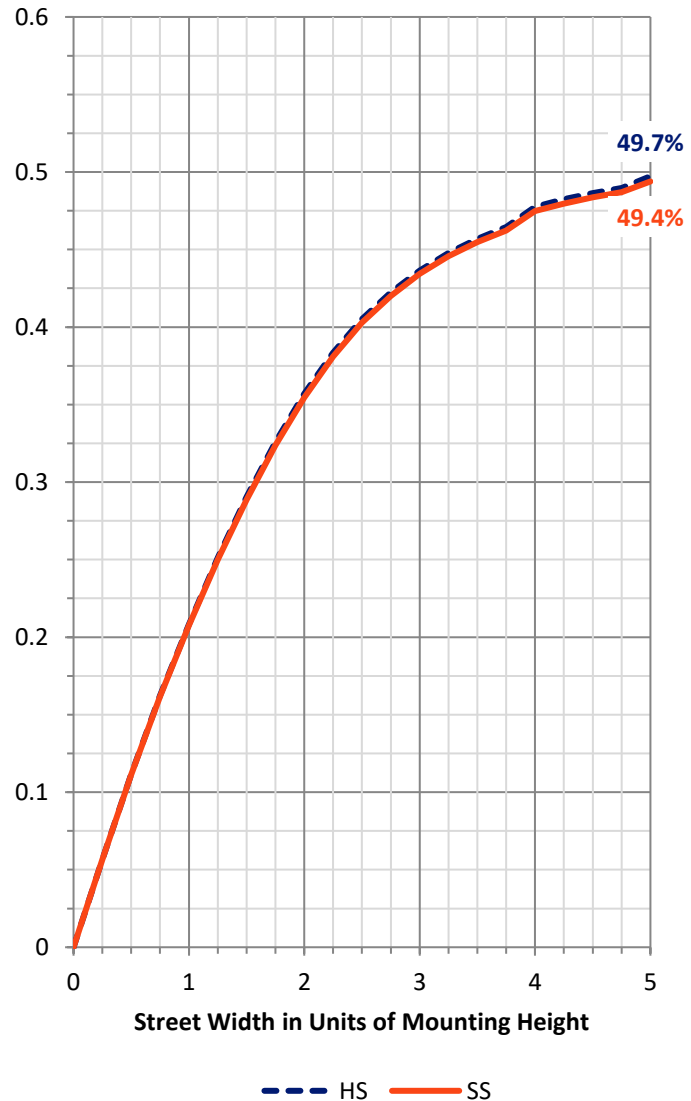
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9845.0	0.0	9845.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9845.0	0.0	9845.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19690.0	0.0	19690.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	0.6
10°-20°	356.9	1.8
20°-30°	692.4	3.5
30°-40°	1157.5	5.9
40°-50°	2015.5	10.2
50°-60°	3436.2	17.5
60°-70°	5661.1	28.8
70°-80°	5180.2	26.3
80°-90°	1081.2	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°	19690.0	100.0
0°-180°	19690.0	100.0



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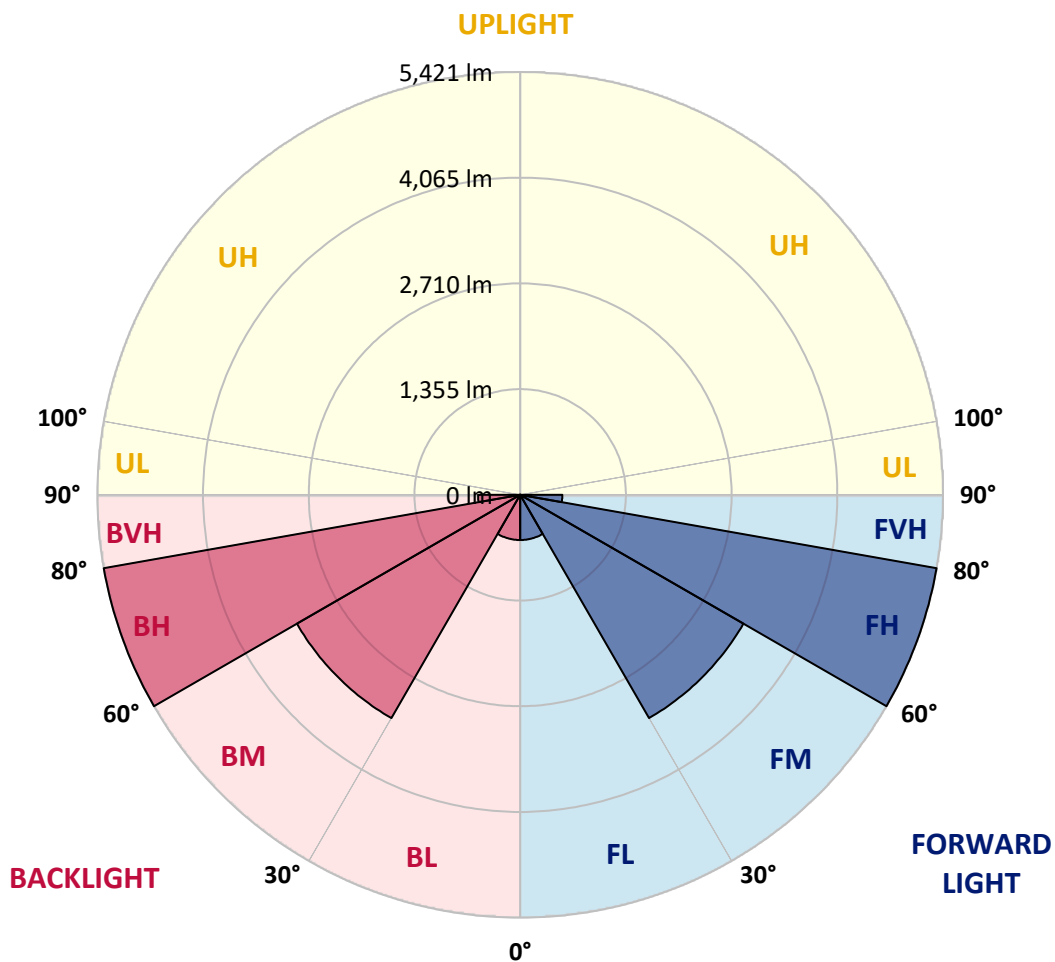
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	579.1	2.9			
FM	(30°-60°)	3304.6	16.8			
FH	(60°-80°)	5420.6	27.5			G3/7500
FVH	(80°-90°)	540.6	2.7			G4/750
BL	(0°-30°)	579.1	2.9	B2/1000		
BM	(30°-60°)	3304.6	16.8	B3/5000		
BH	(60°-80°)	5420.6	27.5	B5		G3/7500
BVH	(80°-90°)	540.6	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°	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1132.3	1132.3	1132.3	1129.7	1129.7	1123.3	1123.3	1118.2	1114.4	1118.2	1115.7
5°	1145.0	1142.5	1141.2	1138.7	1138.7	1134.8	1132.3	1127.2	1125.9	1128.4	1125.9
7.5°	1160.4	1157.8	1154.0	1151.4	1154.0	1150.1	1147.6	1141.2	1141.2	1139.9	1139.9
10°	1182.1	1178.2	1176.9	1174.4	1176.9	1169.3	1169.3	1164.2	1161.6	1159.1	1160.4
12.5°	1211.4	1208.9	1207.6	1205.0	1205.0	1202.5	1205.0	1197.4	1196.1	1196.1	1197.4
15°	1254.8	1251.0	1249.7	1247.2	1247.2	1249.7	1251.0	1247.2	1251.0	1251.0	1247.2
17.5°	1307.2	1302.0	1302.0	1299.5	1302.0	1304.6	1308.4	1308.4	1312.3	1313.5	1308.4
20°	1362.0	1356.9	1355.7	1354.4	1359.5	1362.0	1369.7	1376.1	1381.2	1377.4	1367.1
22.5°	1420.8	1415.7	1413.1	1409.3	1414.4	1420.8	1438.6	1451.4	1456.5	1451.4	1438.6
25°	1483.3	1480.8	1479.5	1473.1	1470.5	1483.3	1506.3	1522.9	1533.1	1529.3	1519.1
27.5°	1551.0	1547.1	1545.9	1538.2	1536.9	1539.5	1563.7	1596.9	1607.1	1611.0	1599.5
30°	1618.6	1614.8	1613.5	1609.7	1607.1	1607.1	1619.9	1654.4	1686.3	1696.5	1671.0
32.5°	1706.7	1701.6	1700.3	1692.7	1690.1	1691.4	1699.0	1715.6	1750.1	1768.0	1736.1
35°	1815.2	1810.1	1801.2	1797.3	1790.9	1792.2	1797.3	1812.7	1829.2	1839.5	1822.9
37.5°	1930.1	1925.0	1919.9	1914.8	1905.8	1905.8	1908.4	1919.9	1935.2	1937.7	1925.0
40°	2096.0	2097.3	2076.9	2070.5	2052.6	2048.8	2050.1	2055.2	2064.1	2057.7	2060.3
42.5°	2376.9	2356.4	2337.3	2330.9	2313.0	2307.9	2305.4	2310.5	2315.6	2322.0	2329.6
45°	2646.2	2636.0	2610.5	2584.9	2550.5	2523.7	2490.5	2468.8	2467.5	2485.4	2487.9
47.5°	2962.8	2946.2	2907.9	2872.2	2818.5	2768.8	2712.6	2676.9	2666.6	2682.0	2683.2
50°	3322.8	3303.6	3258.9	3213.0	3144.1	3081.5	2994.7	2938.5	2916.8	2921.9	2919.4
52.5°	3691.7	3672.5	3617.6	3578.1	3506.6	3422.3	3317.7	3232.1	3188.7	3179.8	3167.0
55°	4110.4	4090.0	4032.5	3989.1	3901.0	3811.7	3678.9	3569.1	3498.9	3460.6	3451.7
57.5°	4545.7	4521.4	4476.7	4406.5	4341.4	4225.3	4105.3	3972.5	3872.9	3816.8	3802.7
60°	4992.4	4972.0	4926.1	4889.0	4822.7	4738.4	4600.6	4467.8	4359.3	4303.1	4269.9
62.5°	5476.2	5463.5	5429.0	5404.8	5352.4	5258.0	5190.3	5084.4	5012.9	4951.6	4909.5
65°	6007.3	6003.4	6002.2	6011.1	5999.6	5953.7	5921.7	5850.3	5826.0	5796.7	5734.1
67.5°	5923.0	5944.7	6011.1	6097.9	6219.2	6354.5	6529.4	6672.3	6820.4	6923.8	6789.8
70°	5452.0	5478.8	5574.5	5729.0	5975.4	6291.9	6681.3	7112.7	7382.1	7392.3	7175.3
72.5°	4862.2	4886.5	4965.6	5187.8	5467.3	5946.0	6590.6	7074.4	7248.0	7213.6	6988.9
75°	3939.3	3990.4	4206.1	4427.0	4811.2	5329.4	6082.6	6595.7	6823.0	6722.1	6440.0
77.5°	2830.0	2828.8	2980.7	3308.7	3675.1	4295.5	5080.5	5750.7	6034.1	5999.6	5778.8
80°	1533.1	1588.0	1752.7	2023.3	2402.4	2932.2	3617.6	4253.3	4601.8	4715.4	4600.6
82.5°	684.2	713.6	827.2	1048.0	1284.2	1672.2	2156.0	2638.6	2971.7	3110.9	3006.2
85°	215.7	223.4	264.2	371.5	487.6	691.9	966.3	1271.4	1433.5	1325.0	1139.9
87.5°	52.3	54.9	67.7	106.0	155.7	217.0	196.6	165.9	118.7	60.0	37.0
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°	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1115.7	1114.4	1115.7	1117.0	1117.0	1115.7	1115.7	1118.2
5°	1127.2	1125.9	1127.2	1131.0	1129.7	1131.0	1129.7	1133.5
7.5°	1138.7	1137.4	1136.1	1139.9	1139.9	1141.2	1139.9	1142.5
10°	1159.1	1159.1	1157.8	1159.1	1156.5	1156.5	1154.0	1152.7
12.5°	1193.5	1192.3	1193.5	1189.7	1187.2	1185.9	1183.3	1179.5
15°	1244.6	1240.8	1242.0	1231.8	1230.6	1229.3	1226.7	1224.2
17.5°	1300.8	1291.8	1290.6	1279.1	1280.3	1276.5	1272.7	1272.7
20°	1359.5	1349.3	1342.9	1332.7	1331.4	1330.1	1323.7	1326.3
22.5°	1427.1	1411.8	1402.9	1394.0	1388.8	1391.4	1386.3	1388.8
25°	1503.7	1480.8	1461.6	1460.3	1459.1	1461.6	1460.3	1460.3
27.5°	1573.9	1539.5	1526.7	1533.1	1533.1	1535.6	1540.8	1539.5
30°	1628.8	1607.1	1602.0	1614.8	1614.8	1617.3	1622.4	1623.7
32.5°	1708.0	1696.5	1697.8	1714.4	1715.6	1722.0	1728.4	1733.5
35°	1808.8	1805.0	1815.2	1833.1	1838.2	1845.8	1857.3	1865.0
37.5°	1921.2	1930.1	1941.6	1962.0	1977.3	1987.5	2001.6	2009.2
40°	2082.0	2103.7	2122.8	2147.1	2159.9	2177.7	2194.3	2205.8
42.5°	2355.2	2369.2	2383.3	2403.7	2425.4	2440.7	2450.9	2458.6
45°	2521.1	2546.6	2582.4	2623.2	2664.1	2698.6	2725.4	2729.2
47.5°	2719.0	2758.5	2808.3	2872.2	2927.0	2960.2	2980.7	2992.1
50°	2956.4	3004.9	3075.1	3150.4	3213.0	3258.9	3284.5	3302.3
52.5°	3213.0	3274.3	3361.1	3454.2	3530.8	3576.8	3618.9	3639.3
55°	3504.0	3588.3	3695.5	3807.8	3892.1	3952.1	3982.7	4008.3
57.5°	3870.4	3976.3	4102.7	4213.8	4303.1	4368.2	4411.6	4433.3
60°	4355.5	4461.4	4573.8	4682.3	4783.1	4827.8	4866.1	4882.7
62.5°	4950.3	5030.7	5121.4	5199.2	5295.0	5360.1	5402.2	5415.0
65°	5730.3	5766.0	5865.6	5952.4	5952.4	5938.3	5932.0	5921.7
67.5°	6510.2	6270.2	6082.6	5990.7	5892.4	5818.4	5776.2	5750.7
70°	6857.4	6272.8	5827.3	5647.3	5366.5	5286.0	5250.3	5205.6
72.5°	6571.5	5896.2	5266.9	5112.4	4735.9	4779.3	4603.1	4529.1
75°	5967.7	5305.2	4742.3	4391.2	4206.1	3973.8	3879.3	3892.1
77.5°	5343.5	4606.9	3994.2	3639.3	3418.5	3190.0	3136.4	3137.7
80°	4138.5	3473.4	2953.9	2614.3	2350.1	2158.6	2002.9	1955.6
82.5°	2558.1	2111.4	1751.4	1515.2	1299.5	1131.0	972.7	952.3
85°	871.9	693.1	517.0	417.4	331.9	268.1	218.3	210.6
87.5°	23.0	23.0	23.0	23.0	23.0	24.3	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)