

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: P200777

Luminaire Tested: **VERD-M-A0385-E-U-T5-7050-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200777
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-T5-7050-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 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: 19413 lumens
Efficiency: N/A
Efficacy: 127.7 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

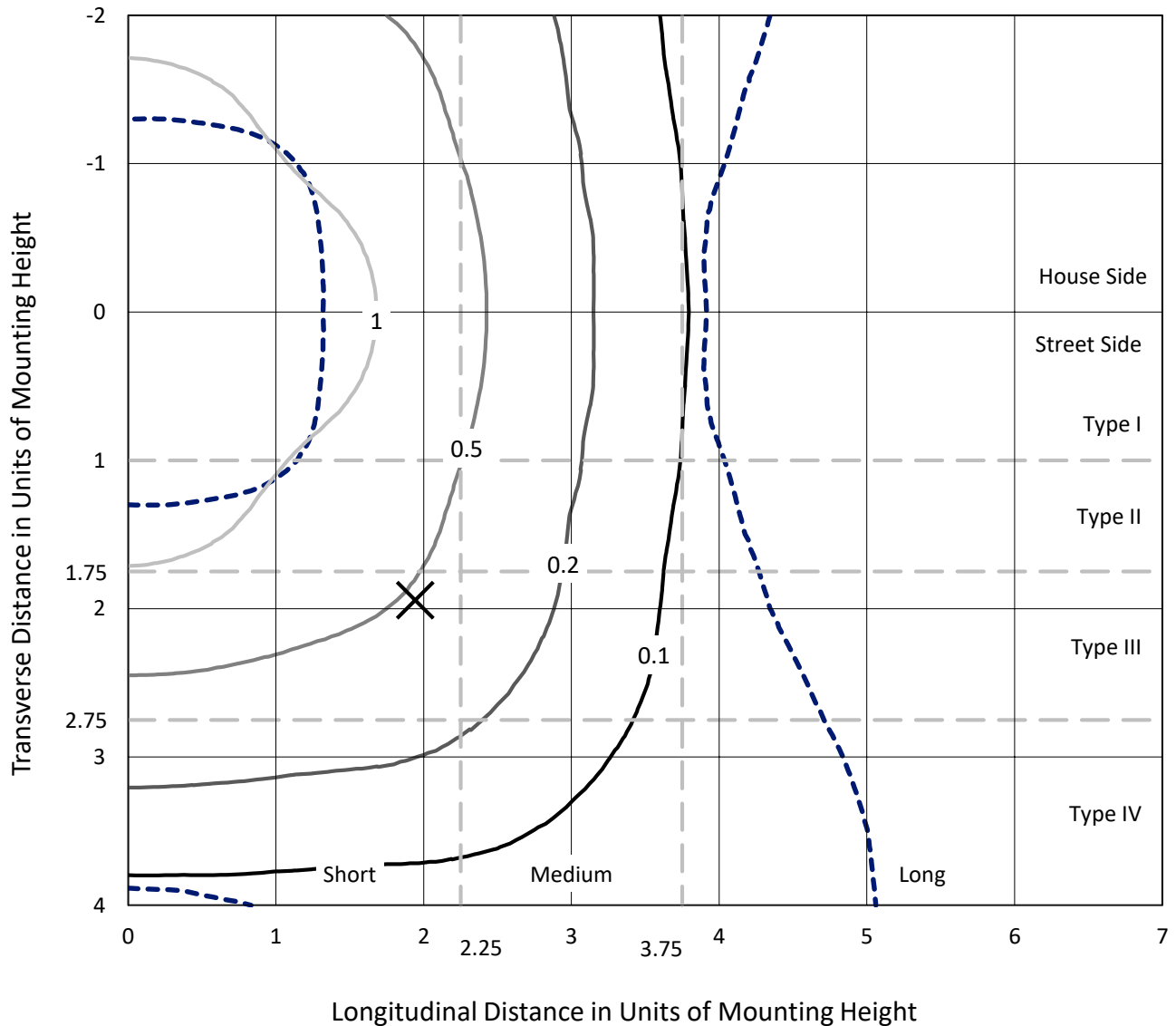
Input Watts (W): 152
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

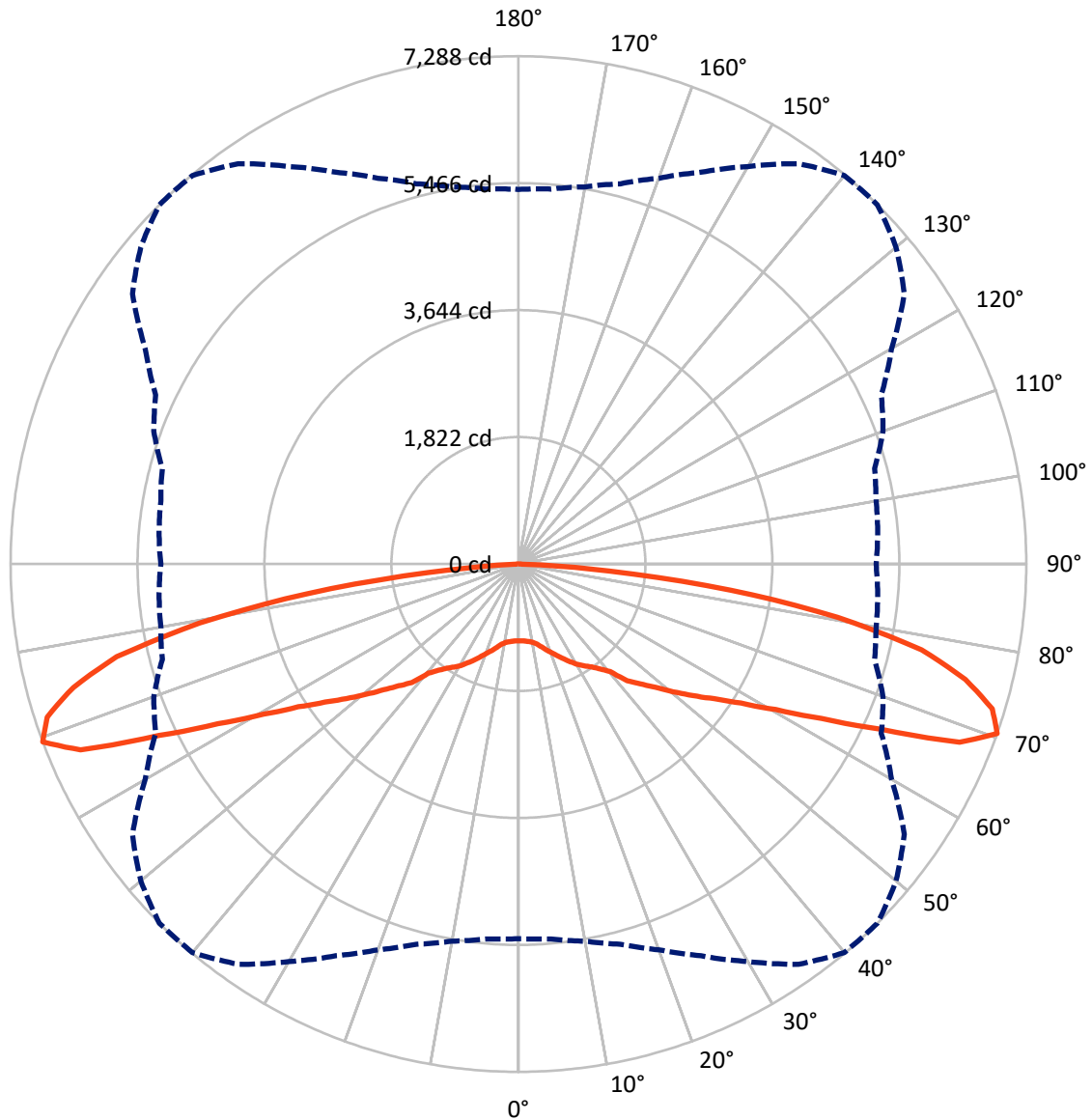


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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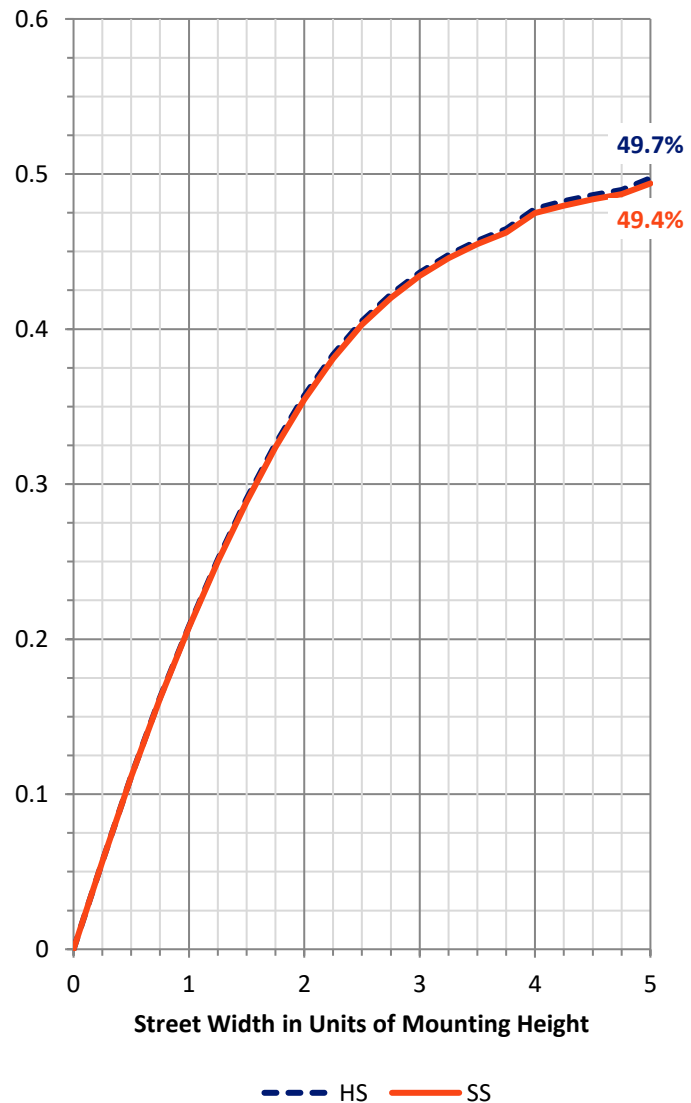
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9706.5	0.0	9706.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9706.5	0.0	9706.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19413.0	0.0	19413.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	0.6
10°-20°	351.8	1.8
20°-30°	682.7	3.5
30°-40°	1141.2	5.9
40°-50°	1987.2	10.2
50°-60°	3387.9	17.5
60°-70°	5581.5	28.8
70°-80°	5107.3	26.3
80°-90°	1066.0	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°	19413.0	100.0
0°-180°	19413.0	100.0



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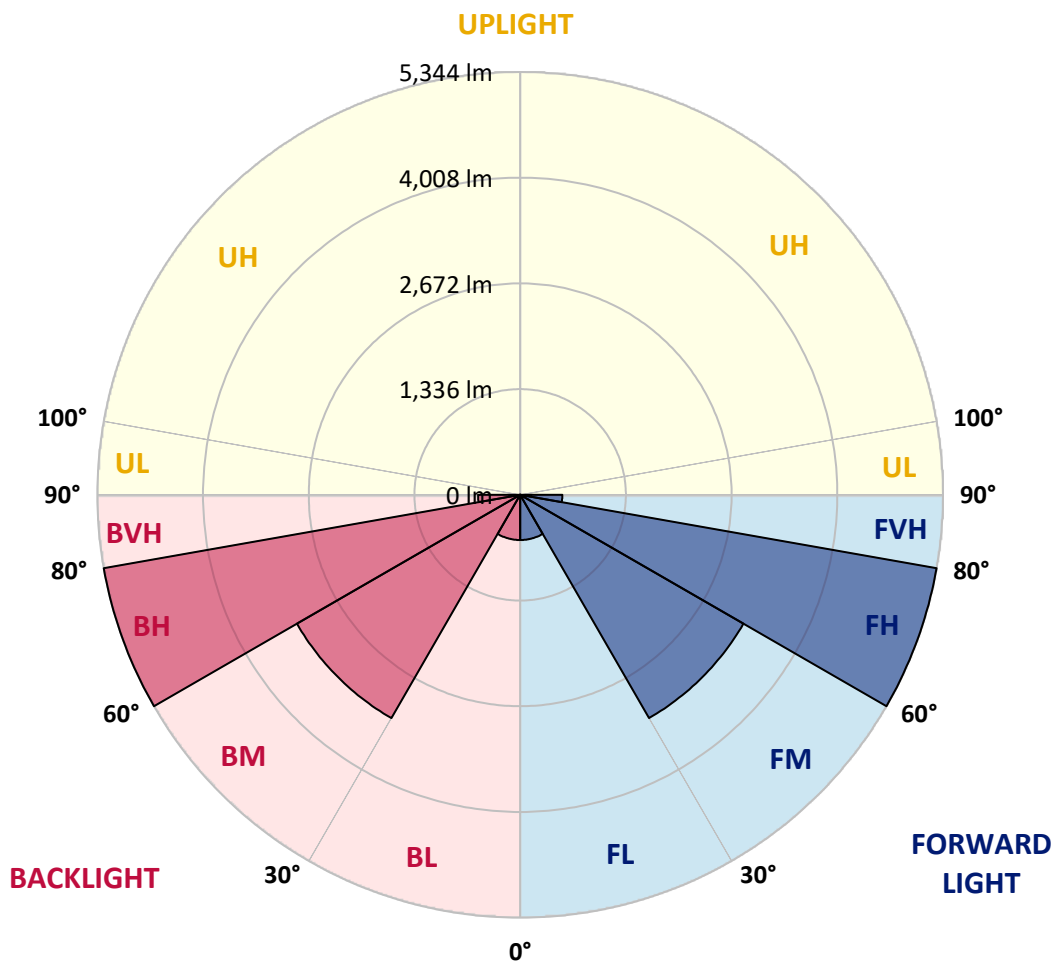
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	571.0	2.9			
FM	(30°-60°)	3258.1	16.8			
FH	(60°-80°)	5344.4	27.5			G3/7500
FVH	(80°-90°)	533.0	2.7			G4/750
BL	(0°-30°)	571.0	2.9	B2/1000		
BM	(30°-60°)	3258.1	16.8	B3/5000		
BH	(60°-80°)	5344.4	27.5	B5		G3/7500
BVH	(80°-90°)	533.0	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°	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8
2.5°	1116.3	1116.3	1116.3	1113.8	1113.8	1107.5	1107.5	1102.5	1098.7	1102.5	1100.0
5°	1128.9	1126.4	1125.1	1122.6	1122.6	1118.9	1116.3	1111.3	1110.0	1112.6	1110.0
7.5°	1144.0	1141.5	1137.7	1135.2	1137.7	1134.0	1131.4	1125.1	1125.1	1123.9	1123.9
10°	1165.4	1161.6	1160.4	1157.9	1160.4	1152.8	1152.8	1147.8	1145.3	1142.8	1144.0
12.5°	1194.4	1191.9	1190.6	1188.1	1188.1	1185.6	1188.1	1180.5	1179.3	1179.3	1180.5
15°	1237.2	1233.4	1232.1	1229.6	1229.6	1232.1	1233.4	1229.6	1233.4	1233.4	1229.6
17.5°	1288.8	1283.7	1283.7	1281.2	1283.7	1286.2	1290.0	1290.0	1293.8	1295.1	1290.0
20°	1342.9	1337.8	1336.6	1335.3	1340.4	1342.9	1350.4	1356.7	1361.8	1358.0	1347.9
22.5°	1400.8	1395.7	1393.2	1389.4	1394.5	1400.8	1418.4	1431.0	1436.0	1431.0	1418.4
25°	1462.4	1459.9	1458.7	1452.4	1449.9	1462.4	1485.1	1501.5	1511.5	1507.8	1497.7
27.5°	1529.1	1525.4	1524.1	1516.6	1515.3	1517.8	1541.7	1574.5	1584.5	1588.3	1577.0
30°	1595.8	1592.1	1590.8	1587.0	1584.5	1584.5	1597.1	1631.1	1662.6	1672.6	1647.5
32.5°	1682.7	1677.7	1676.4	1668.8	1666.3	1667.6	1675.1	1691.5	1725.5	1743.1	1711.6
35°	1789.7	1784.6	1775.8	1772.0	1765.8	1767.0	1772.0	1787.1	1803.5	1813.6	1797.2
37.5°	1902.9	1897.9	1892.9	1887.8	1879.0	1879.0	1881.5	1892.9	1908.0	1910.5	1897.9
40°	2066.5	2067.8	2047.7	2041.4	2023.8	2020.0	2021.2	2026.3	2035.1	2028.8	2031.3
42.5°	2343.4	2323.3	2304.4	2298.1	2280.5	2275.5	2273.0	2278.0	2283.0	2289.3	2296.9
45°	2609.0	2598.9	2573.7	2548.6	2514.6	2488.2	2455.4	2434.0	2432.8	2450.4	2452.9
47.5°	2921.1	2904.7	2867.0	2831.8	2778.9	2729.8	2674.4	2639.2	2629.1	2644.2	2645.5
50°	3276.0	3257.1	3213.1	3167.8	3099.8	3038.2	2952.6	2897.2	2875.8	2880.8	2878.3
52.5°	3639.7	3620.9	3566.7	3527.7	3457.3	3374.2	3271.0	3186.7	3143.9	3135.1	3122.5
55°	4052.6	4032.4	3975.8	3933.0	3846.1	3758.0	3627.2	3518.9	3449.7	3411.9	3403.1
57.5°	4481.7	4457.8	4413.8	4344.5	4280.3	4165.8	4047.5	3916.6	3818.5	3763.1	3749.2
60°	4922.2	4902.1	4856.8	4820.3	4754.8	4671.8	4535.8	4404.9	4298.0	4242.6	4209.9
62.5°	5399.2	5386.6	5352.6	5328.7	5277.1	5184.0	5117.3	5012.8	4942.4	4881.9	4840.4
65°	5922.8	5919.0	5917.7	5926.5	5915.2	5869.9	5838.4	5768.0	5744.1	5715.1	5653.4
67.5°	5839.7	5861.1	5926.5	6012.1	6131.7	6265.1	6437.5	6578.5	6724.5	6826.4	6694.3
70°	5375.3	5401.7	5496.1	5648.4	5891.3	6203.4	6587.3	7012.7	7278.2	7288.3	7074.3
72.5°	4793.8	4817.8	4895.8	5114.8	5390.4	5862.4	6497.9	6974.9	7146.1	7112.1	6890.6
75°	3883.9	3934.2	4146.9	4364.7	4743.5	5254.5	5997.0	6503.0	6727.0	6627.6	6349.4
77.5°	2790.2	2789.0	2938.7	3262.2	3623.4	4235.0	5009.1	5669.8	5949.2	5915.2	5697.5
80°	1511.5	1565.6	1728.0	1994.8	2368.6	2890.9	3566.7	4193.5	4537.1	4649.1	4535.8
82.5°	674.6	703.5	815.5	1033.3	1266.1	1648.7	2125.7	2601.4	2929.9	3067.1	2963.9
85°	212.7	220.2	260.5	366.2	480.8	682.1	952.7	1253.5	1413.4	1306.4	1123.9
87.5°	51.6	54.1	66.7	104.5	153.5	214.0	193.8	163.6	117.0	59.2	36.5
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°	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8	1103.8
2.5°	1100.0	1098.7	1100.0	1101.2	1101.2	1100.0	1100.0	1102.5
5°	1111.3	1110.0	1111.3	1115.1	1113.8	1115.1	1113.8	1117.6
7.5°	1122.6	1121.4	1120.1	1123.9	1123.9	1125.1	1123.9	1126.4
10°	1142.8	1142.8	1141.5	1142.8	1140.3	1140.3	1137.7	1136.5
12.5°	1176.8	1175.5	1176.8	1173.0	1170.5	1169.2	1166.7	1162.9
15°	1227.1	1223.3	1224.6	1214.5	1213.2	1212.0	1209.5	1207.0
17.5°	1282.5	1273.7	1272.4	1261.1	1262.3	1258.6	1254.8	1254.8
20°	1340.4	1330.3	1324.0	1313.9	1312.7	1311.4	1305.1	1307.6
22.5°	1407.1	1392.0	1383.2	1374.3	1369.3	1371.8	1366.8	1369.3
25°	1482.6	1459.9	1441.0	1439.8	1438.5	1441.0	1439.8	1439.8
27.5°	1551.8	1517.8	1505.2	1511.5	1511.5	1514.0	1519.1	1517.8
30°	1605.9	1584.5	1579.5	1592.1	1592.1	1594.6	1599.6	1600.9
32.5°	1683.9	1672.6	1673.9	1690.2	1691.5	1697.8	1704.1	1709.1
35°	1783.4	1779.6	1789.7	1807.3	1812.3	1819.9	1831.2	1838.8
37.5°	1894.1	1902.9	1914.3	1934.4	1949.5	1959.6	1973.4	1981.0
40°	2052.7	2074.1	2093.0	2116.9	2129.5	2147.1	2163.5	2174.8
42.5°	2322.0	2335.9	2349.7	2369.9	2391.3	2406.4	2416.4	2424.0
45°	2485.6	2510.8	2546.1	2586.3	2626.6	2660.6	2687.0	2690.8
47.5°	2680.7	2719.7	2768.8	2831.8	2885.9	2918.6	2938.7	2950.1
50°	2914.8	2962.6	3031.9	3106.1	3167.8	3213.1	3238.3	3255.9
52.5°	3167.8	3228.2	3313.8	3405.7	3481.2	3526.5	3568.0	3588.1
55°	3454.7	3537.8	3643.5	3754.3	3837.3	3896.5	3926.7	3951.9
57.5°	3815.9	3920.4	4045.0	4154.5	4242.6	4306.8	4349.6	4371.0
60°	4294.2	4398.7	4509.4	4616.4	4715.8	4759.9	4797.6	4814.0
62.5°	4880.7	4960.0	5049.3	5126.1	5220.5	5284.7	5326.2	5338.8
65°	5649.7	5684.9	5783.1	5868.6	5868.6	5854.8	5848.5	5838.4
67.5°	6418.6	6182.0	5997.0	5906.4	5809.5	5736.5	5695.0	5669.8
70°	6761.0	6184.5	5745.3	5567.9	5291.0	5211.7	5176.4	5132.4
72.5°	6479.0	5813.3	5192.8	5040.5	4669.2	4712.0	4538.4	4465.4
75°	5883.8	5230.6	4675.5	4329.4	4146.9	3917.9	3824.8	3837.3
77.5°	5268.3	4542.1	3938.0	3588.1	3370.4	3145.1	3092.3	3093.5
80°	4080.2	3424.5	2912.3	2577.5	2317.0	2128.2	1974.7	1928.1
82.5°	2522.1	2081.7	1726.7	1493.9	1281.2	1115.1	959.0	938.9
85°	859.6	683.4	509.7	411.5	327.2	264.3	215.2	207.7
87.5°	22.7	22.7	22.7	22.7	22.7	23.9	23.9	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)