

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: P175658

Luminaire Tested: **VERD-G-A02-E-U-T5-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P175658
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-G-A02-E-U-T5-7030-AP
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 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: 14829 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

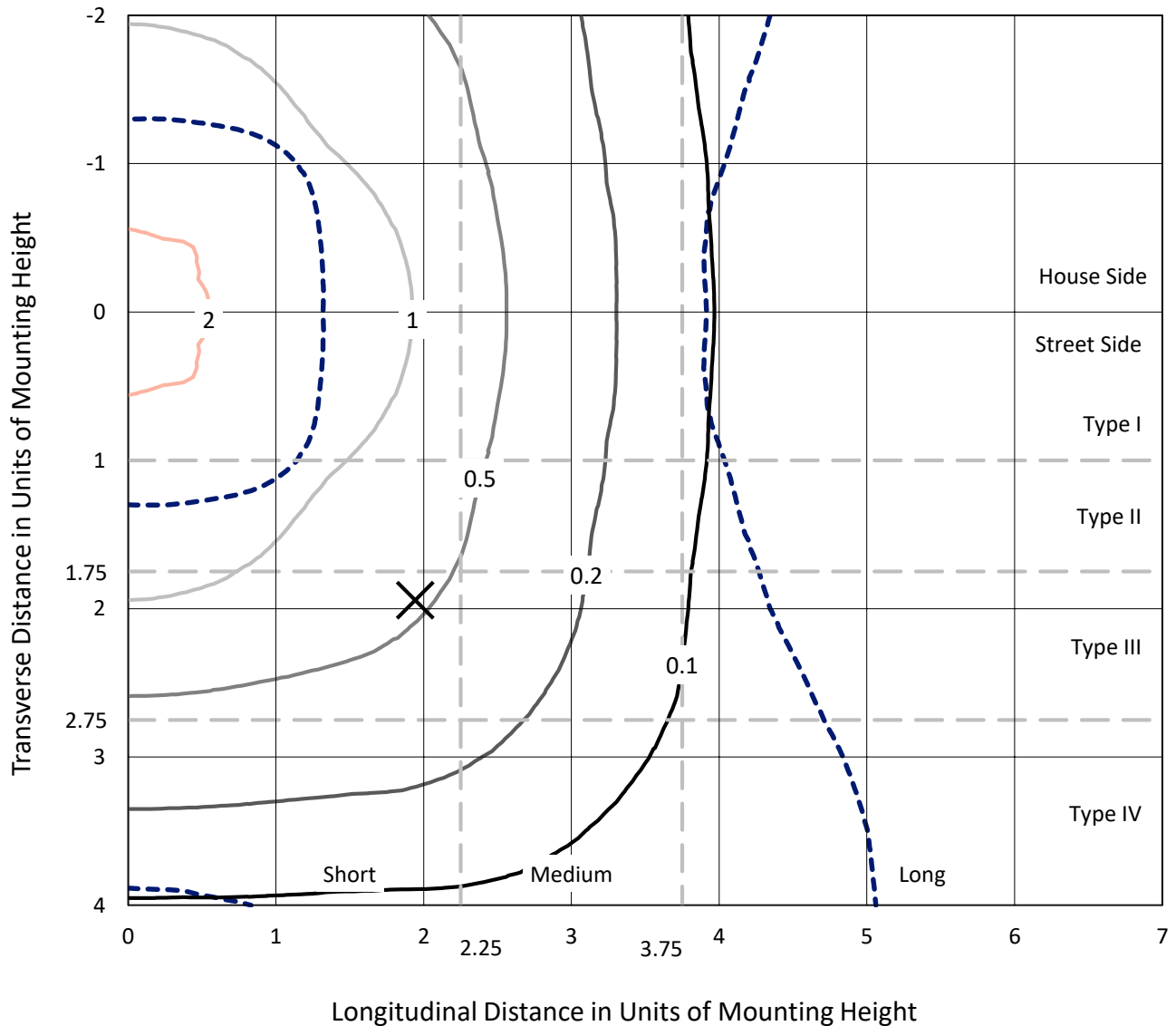
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

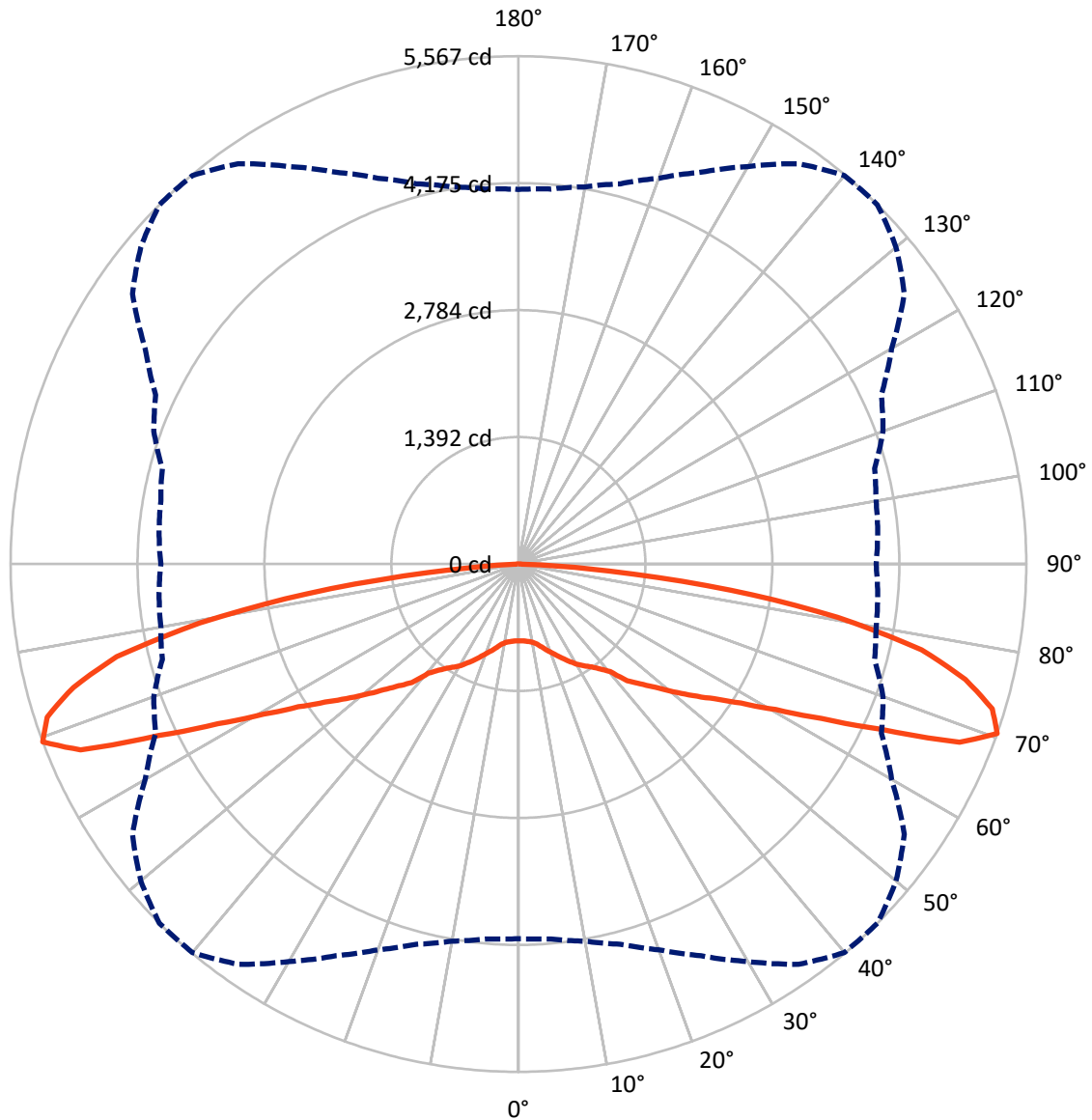
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 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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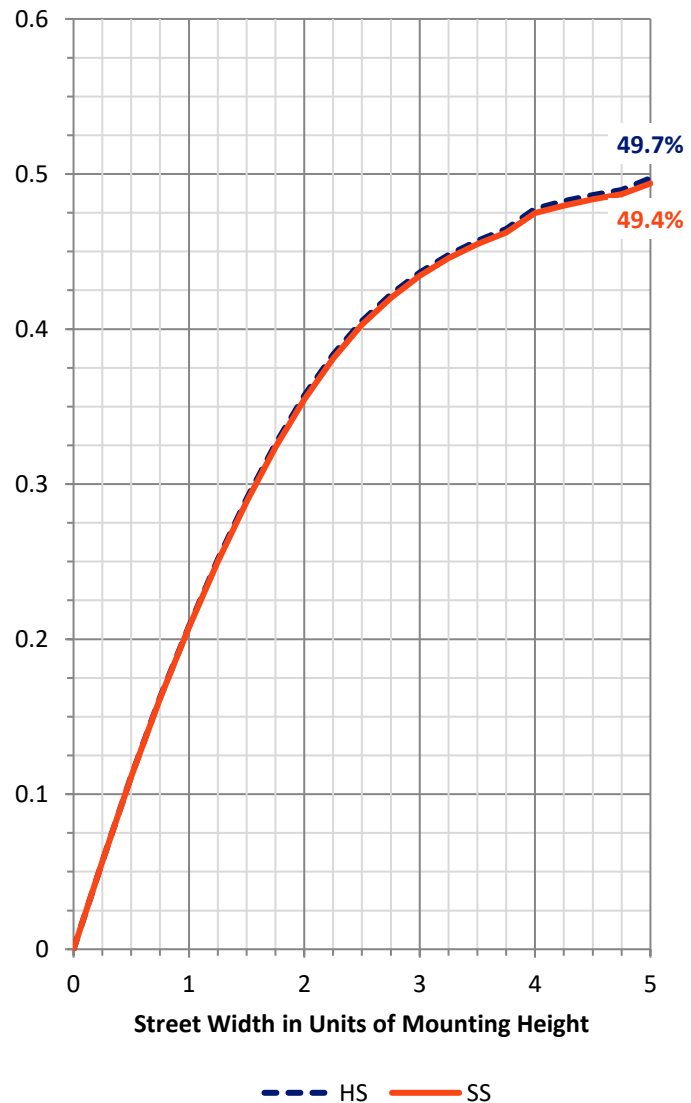
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7414.5	0.0	7414.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7414.5	0.0	7414.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14829.0	0.0	14829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	0.6
10°-20°	268.8	1.8
20°-30°	521.5	3.5
30°-40°	871.7	5.9
40°-50°	1517.9	10.2
50°-60°	2587.9	17.5
60°-70°	4263.5	28.8
70°-80°	3901.3	26.3
80°-90°	814.3	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°	14829.0	100.0
0°-180°	14829.0	100.0

Coefficient of Utilization



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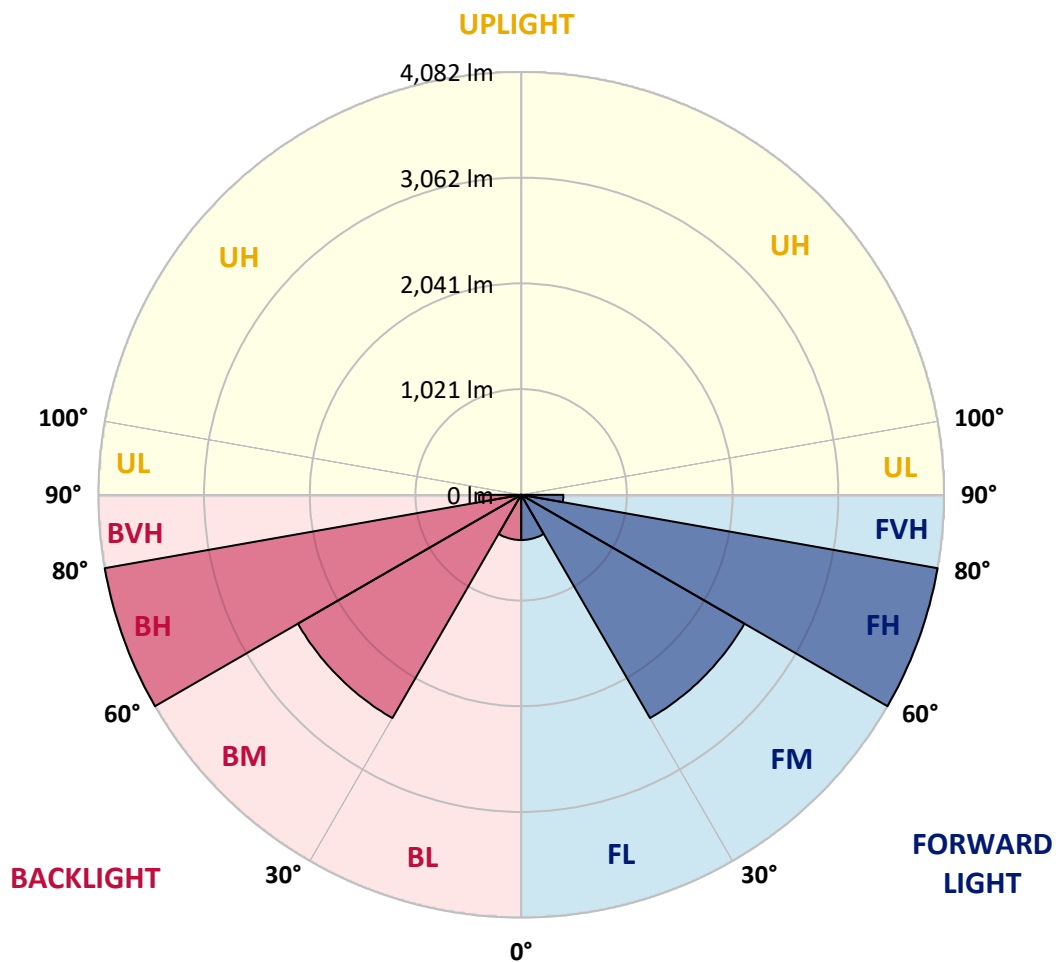
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.2	2.9			
FM	(30°-60°)	2488.8	16.8			
FH	(60°-80°)	4082.4	27.5			G2/5000
FVH	(80°-90°)	407.1	2.7			G3/500
BL	(0°-30°)	436.2	2.9	B1/500		
BM	(30°-60°)	2488.8	16.8	B2/2500		
BH	(60°-80°)	4082.4	27.5	B4/5000		G2/5000
BVH	(80°-90°)	407.1	2.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1
2.5°	852.7	852.7	852.7	850.8	850.8	846.0	846.0	842.2	839.3	842.2	840.2
5°	862.4	860.4	859.5	857.5	857.5	854.7	852.7	848.9	847.9	849.9	847.9
7.5°	873.9	872.0	869.1	867.2	869.1	866.2	864.3	859.5	859.5	858.5	858.5
10°	890.2	887.3	886.4	884.5	886.4	880.6	880.6	876.8	874.8	872.9	873.9
12.5°	912.3	910.4	909.5	907.5	907.5	905.6	907.5	901.8	900.8	900.8	901.8
15°	945.0	942.1	941.2	939.3	939.3	941.2	942.1	939.3	942.1	942.1	939.3
17.5°	984.4	980.6	980.6	978.7	980.6	982.5	985.4	985.4	988.3	989.3	985.4
20°	1025.8	1021.9	1021.0	1020.0	1023.9	1025.8	1031.6	1036.4	1040.2	1037.3	1029.6
22.5°	1070.0	1066.2	1064.2	1061.4	1065.2	1070.0	1083.5	1093.1	1096.9	1093.1	1083.5
25°	1117.1	1115.2	1114.2	1109.4	1107.5	1117.1	1134.4	1146.9	1154.6	1151.7	1144.0
27.5°	1168.1	1165.2	1164.2	1158.5	1157.5	1159.4	1177.7	1202.7	1210.4	1213.3	1204.6
30°	1219.0	1216.1	1215.2	1212.3	1210.4	1210.4	1220.0	1245.9	1270.0	1277.7	1258.4
32.5°	1285.4	1281.5	1280.5	1274.8	1272.9	1273.8	1279.6	1292.1	1318.0	1331.5	1307.5
35°	1367.1	1363.2	1356.5	1353.6	1348.8	1349.8	1353.6	1365.1	1377.6	1385.3	1372.8
37.5°	1453.6	1449.8	1445.9	1442.1	1435.3	1435.3	1437.3	1445.9	1457.4	1459.4	1449.8
40°	1578.6	1579.5	1564.2	1559.3	1545.9	1543.0	1544.0	1547.8	1554.5	1549.7	1551.7
42.5°	1790.1	1774.7	1760.3	1755.5	1742.0	1738.2	1736.2	1740.1	1743.9	1748.7	1754.5
45°	1992.9	1985.2	1966.0	1946.8	1920.8	1900.6	1875.6	1859.3	1858.3	1871.8	1873.7
47.5°	2231.3	2218.8	2190.0	2163.1	2122.7	2085.2	2042.9	2016.0	2008.3	2019.8	2020.8
50°	2502.5	2488.0	2454.4	2419.8	2367.9	2320.8	2255.4	2213.1	2196.7	2200.6	2198.7
52.5°	2780.3	2765.9	2724.5	2694.7	2640.9	2577.4	2498.6	2434.2	2401.5	2394.8	2385.2
55°	3095.6	3080.2	3037.0	3004.3	2938.0	2870.7	2770.7	2688.0	2635.1	2606.3	2599.6
57.5°	3423.4	3405.2	3371.5	3318.7	3269.6	3182.1	3091.8	2991.8	2916.8	2874.5	2863.9
60°	3759.9	3744.5	3709.9	3682.1	3632.1	3568.6	3464.8	3364.8	3283.1	3240.8	3215.8
62.5°	4124.3	4114.7	4088.7	4070.5	4031.0	3959.9	3908.9	3829.1	3775.3	3729.2	3697.4
65°	4524.2	4521.3	4520.4	4527.1	4518.5	4483.8	4459.8	4406.0	4387.7	4365.6	4318.5
67.5°	4460.8	4477.1	4527.1	4592.5	4683.8	4785.7	4917.4	5025.1	5136.6	5214.5	5113.5
70°	4106.0	4126.2	4198.3	4314.6	4500.2	4738.6	5031.8	5356.8	5559.6	5567.3	5403.9
72.5°	3661.9	3680.1	3739.7	3907.0	4117.6	4478.1	4963.6	5327.9	5458.7	5432.7	5263.5
75°	2966.8	3005.3	3167.7	3334.0	3623.4	4013.7	4580.9	4967.4	5138.5	5062.6	4850.1
77.5°	2131.4	2130.4	2244.8	2491.9	2767.8	3235.0	3826.3	4331.0	4544.4	4518.5	4352.1
80°	1154.6	1195.9	1320.0	1523.8	1809.3	2208.3	2724.5	3203.3	3465.7	3551.3	3464.8
82.5°	515.3	537.4	623.0	789.3	967.1	1259.4	1623.8	1987.2	2238.1	2342.9	2264.0
85°	162.5	168.2	199.0	279.8	367.2	521.1	727.8	957.5	1079.6	997.9	858.5
87.5°	39.4	41.3	51.0	79.8	117.3	163.4	148.1	125.0	89.4	45.2	27.9
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°	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1
2.5°	840.2	839.3	840.2	841.2	841.2	840.2	840.2	842.2
5°	848.9	847.9	848.9	851.8	850.8	851.8	850.8	853.7
7.5°	857.5	856.6	855.6	858.5	858.5	859.5	858.5	860.4
10°	872.9	872.9	872.0	872.9	871.0	871.0	869.1	868.1
12.5°	898.9	897.9	898.9	896.0	894.1	893.1	891.2	888.3
15°	937.3	934.5	935.4	927.7	926.8	925.8	923.9	922.0
17.5°	979.6	972.9	971.9	963.3	964.3	961.4	958.5	958.5
20°	1023.9	1016.2	1011.4	1003.7	1002.7	1001.8	996.9	998.9
22.5°	1074.8	1063.3	1056.5	1049.8	1046.0	1047.9	1044.1	1046.0
25°	1132.5	1115.2	1100.8	1099.8	1098.8	1100.8	1099.8	1099.8
27.5°	1185.4	1159.4	1149.8	1154.6	1154.6	1156.5	1160.4	1159.4
30°	1226.7	1210.4	1206.5	1216.1	1216.1	1218.1	1221.9	1222.9
32.5°	1286.3	1277.7	1278.6	1291.1	1292.1	1296.9	1301.7	1305.5
35°	1362.3	1359.4	1367.1	1380.5	1384.4	1390.1	1398.8	1404.6
37.5°	1446.9	1453.6	1462.2	1477.6	1489.2	1496.9	1507.4	1513.2
40°	1568.0	1584.3	1598.8	1617.0	1626.6	1640.1	1652.6	1661.3
42.5°	1773.7	1784.3	1794.9	1810.3	1826.6	1838.1	1845.8	1851.6
45°	1898.7	1917.9	1944.9	1975.6	2006.4	2032.3	2052.5	2055.4
47.5°	2047.7	2077.5	2115.0	2163.1	2204.4	2229.4	2244.8	2253.5
50°	2226.5	2263.1	2315.9	2372.7	2419.8	2454.4	2473.6	2487.1
52.5°	2419.8	2465.9	2531.3	2601.5	2659.2	2693.8	2725.5	2740.9
55°	2639.0	2702.4	2783.2	2867.8	2931.2	2976.4	2999.5	3018.7
57.5°	2914.9	2994.7	3089.9	3173.5	3240.8	3289.8	3322.5	3338.8
60°	3280.2	3360.0	3444.6	3526.3	3602.3	3635.9	3664.8	3677.3
62.5°	3728.2	3788.8	3857.0	3915.7	3987.8	4036.8	4068.5	4078.1
65°	4315.6	4342.5	4417.5	4482.9	4482.9	4472.3	4467.5	4459.8
67.5°	4903.0	4722.3	4580.9	4511.7	4437.7	4381.9	4350.2	4331.0
70°	5164.5	4724.2	4388.7	4253.1	4041.6	3981.0	3954.1	3920.5
72.5°	4949.1	4440.6	3966.6	3850.3	3566.7	3599.4	3466.7	3411.0
75°	4494.4	3995.5	3571.5	3307.1	3167.7	2992.8	2921.6	2931.2
77.5°	4024.3	3469.6	3008.1	2740.9	2574.6	2402.5	2362.1	2363.1
80°	3116.8	2615.9	2224.6	1968.9	1769.9	1625.7	1508.4	1472.8
82.5°	1926.6	1590.1	1319.0	1141.1	978.7	851.8	732.6	717.2
85°	656.6	522.0	389.4	314.4	250.0	201.9	164.4	158.6
87.5°	17.3	17.3	17.3	17.3	17.3	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)