

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: P175660

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P175660
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-AP
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE V OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15424.9 lumens
Efficiency: N/A
Efficacy: 107.9 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

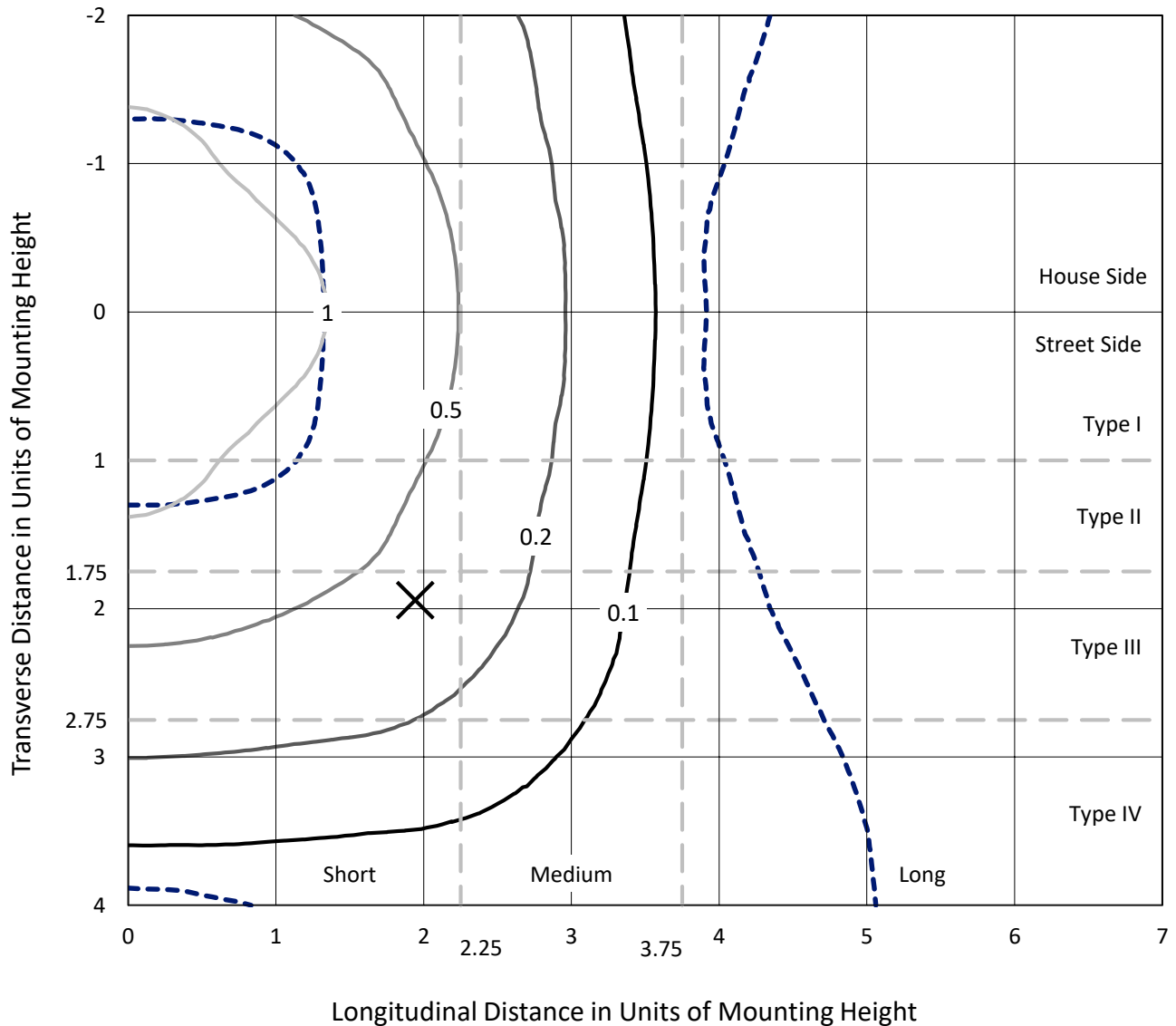
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

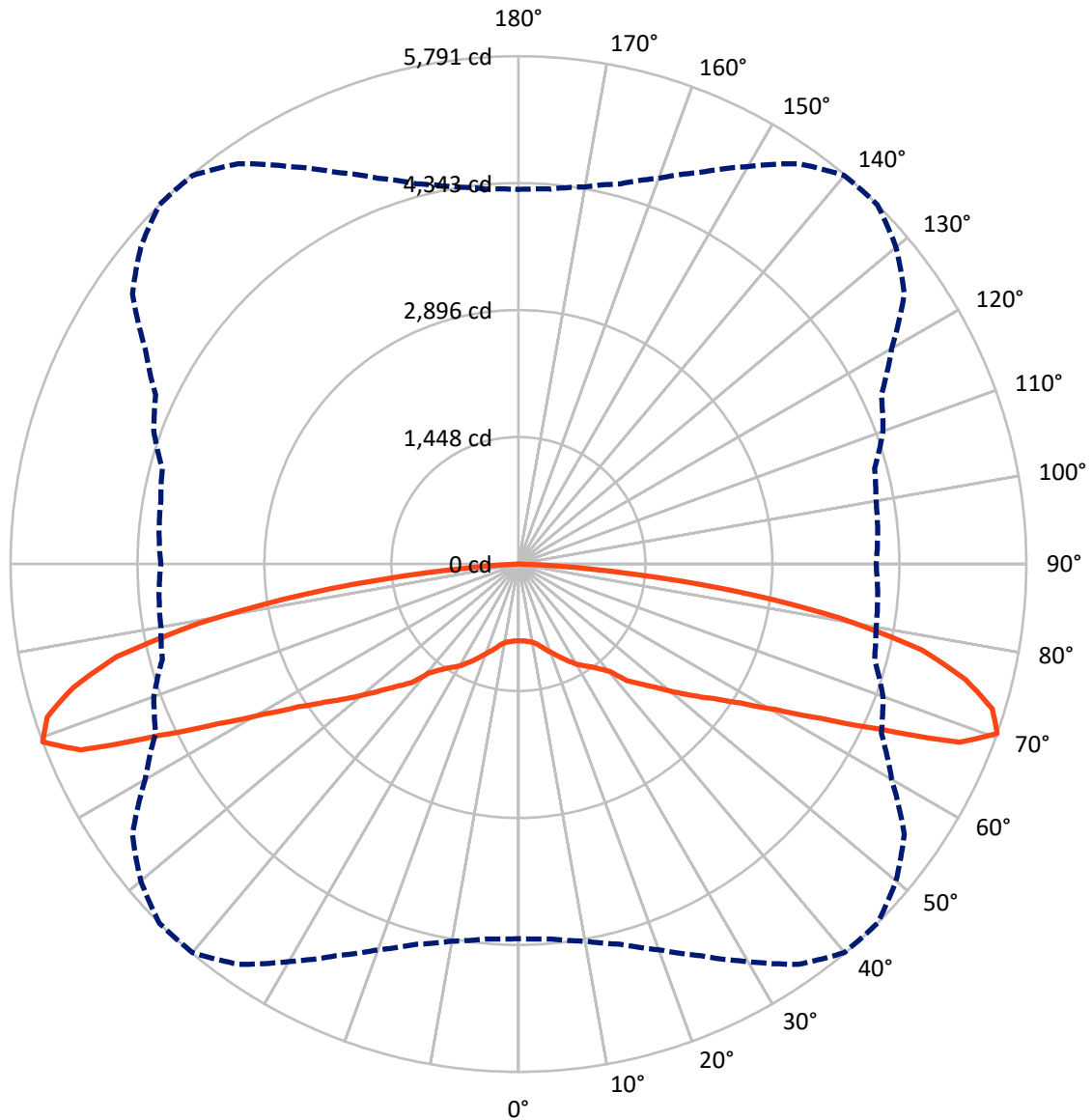


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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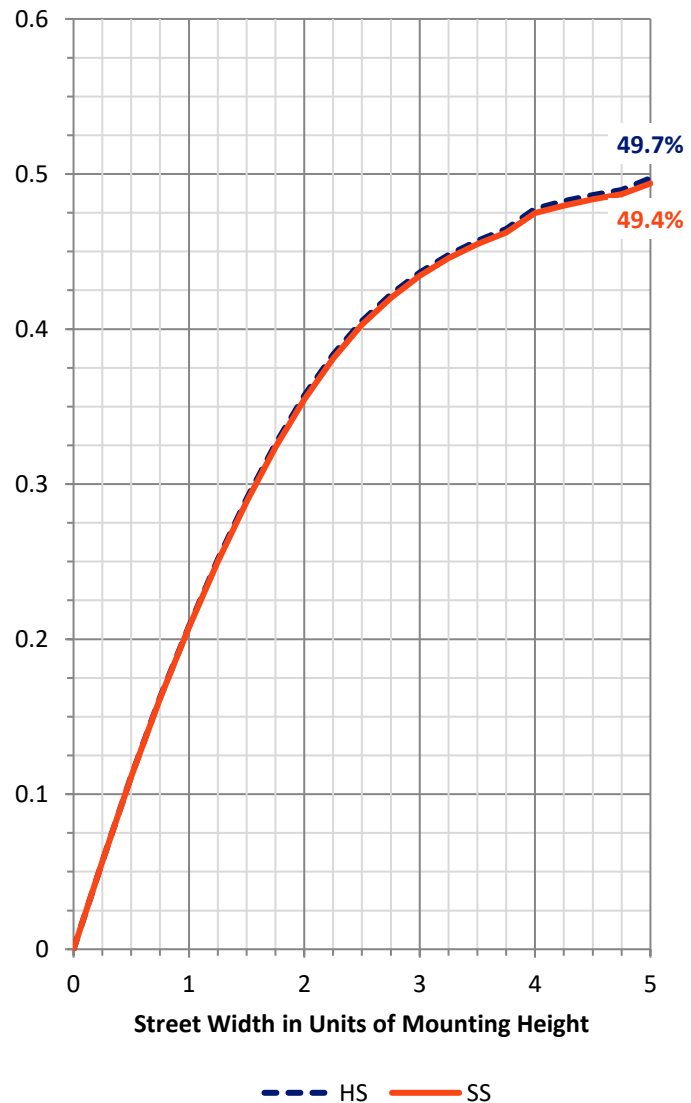
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7712.5	0.0	7712.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7712.5	0.0	7712.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15424.9	0.0	15424.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	0.6
10°-20°	279.6	1.8
20°-30°	542.4	3.5
30°-40°	906.7	5.9
40°-50°	1578.9	10.2
50°-60°	2691.9	17.5
60°-70°	4434.9	28.8
70°-80°	4058.1	26.3
80°-90°	847.0	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°	15424.9	100.0
0°-180°	15424.9	100.0



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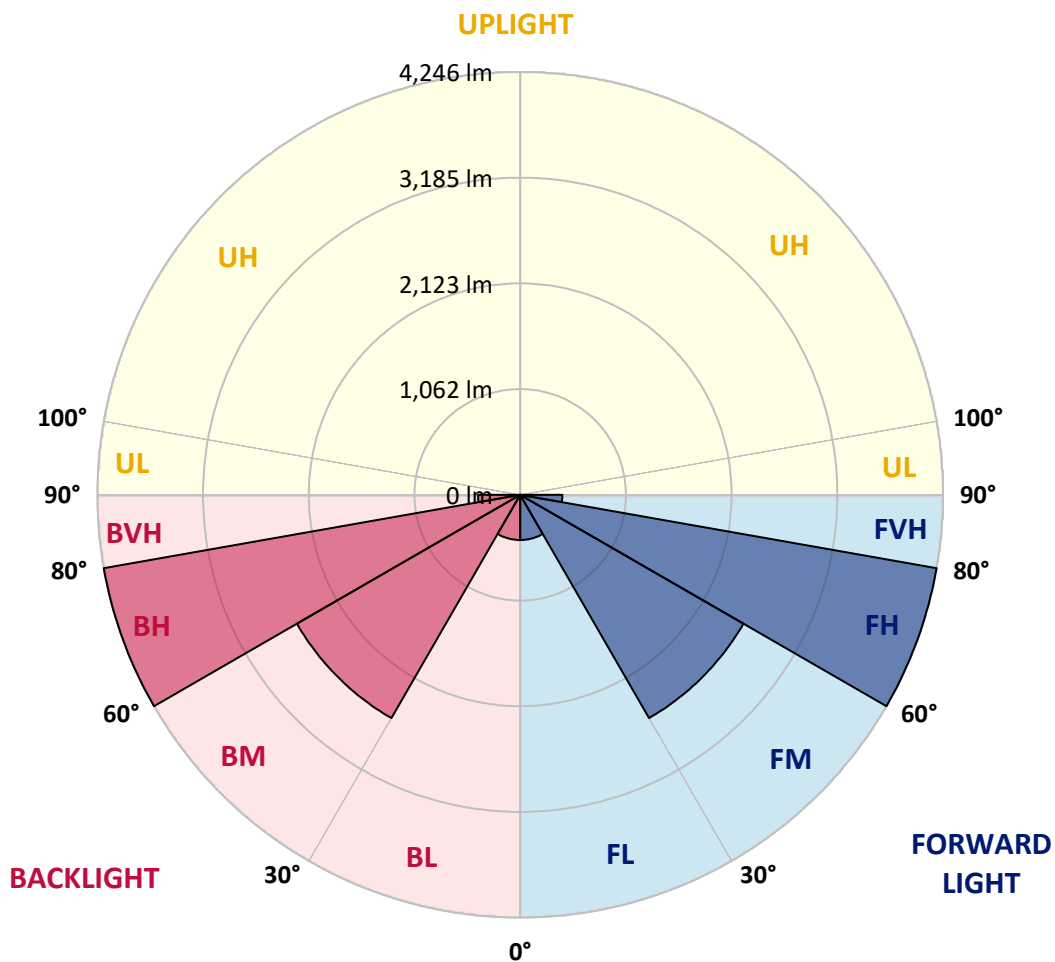
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.7	2.9			
FM	(30°-60°)	2588.8	16.8			
FH	(60°-80°)	4246.5	27.5			G2/5000
FVH	(80°-90°)	423.5	2.7			G3/500
BL	(0°-30°)	453.7	2.9	B1/500		
BM	(30°-60°)	2588.8	16.8	B3/5000		
BH	(60°-80°)	4246.5	27.5	B4/5000		G2/5000
BVH	(80°-90°)	423.5	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°	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0
2.5°	887.0	887.0	887.0	885.0	885.0	880.0	880.0	876.0	873.0	876.0	874.0
5°	897.0	895.0	894.0	892.0	892.0	889.0	887.0	883.0	882.0	884.0	882.0
7.5°	909.0	907.0	904.0	902.0	904.0	901.0	899.0	894.0	894.0	893.0	893.0
10°	926.0	923.0	922.0	920.0	922.0	916.0	916.0	912.0	910.0	908.0	909.0
12.5°	949.0	947.0	946.0	944.0	944.0	942.0	944.0	938.0	937.0	937.0	938.0
15°	983.0	980.0	979.0	977.0	977.0	979.0	980.0	977.0	980.0	980.0	977.0
17.5°	1024.0	1020.0	1020.0	1018.0	1020.0	1022.0	1025.0	1025.0	1028.0	1029.0	1025.0
20°	1067.0	1063.0	1062.0	1061.0	1065.0	1067.0	1073.0	1078.0	1082.0	1079.0	1071.0
22.5°	1113.0	1109.0	1107.0	1104.0	1108.0	1113.0	1127.0	1137.0	1141.0	1137.0	1127.0
25°	1162.0	1160.0	1159.0	1154.0	1152.0	1162.0	1180.0	1193.0	1201.0	1198.0	1190.0
27.5°	1215.0	1212.0	1211.0	1205.0	1204.0	1206.0	1225.0	1251.0	1259.0	1262.0	1253.0
30°	1268.0	1265.0	1264.0	1261.0	1259.0	1259.0	1269.0	1296.0	1321.0	1329.0	1309.0
32.5°	1337.0	1333.0	1332.0	1326.0	1324.0	1325.0	1331.0	1344.0	1371.0	1385.0	1360.0
35°	1422.0	1418.0	1411.0	1408.0	1403.0	1404.0	1408.0	1420.0	1433.0	1441.0	1428.0
37.5°	1512.0	1508.0	1504.0	1500.0	1493.0	1493.0	1495.0	1504.0	1516.0	1518.0	1508.0
40°	1642.0	1643.0	1627.0	1622.0	1608.0	1605.0	1606.0	1610.0	1617.0	1612.0	1614.0
42.5°	1862.0	1846.0	1831.0	1826.0	1812.0	1808.0	1806.0	1810.0	1814.0	1819.0	1825.0
45°	2073.0	2065.0	2045.0	2025.0	1998.0	1977.0	1951.0	1934.0	1933.0	1947.0	1949.0
47.5°	2321.0	2308.0	2278.0	2250.0	2208.0	2169.0	2125.0	2097.0	2089.0	2101.0	2102.0
50°	2603.0	2588.0	2553.0	2517.0	2463.0	2414.0	2346.0	2302.0	2285.0	2289.0	2287.0
52.5°	2892.0	2877.0	2834.0	2803.0	2747.0	2681.0	2599.0	2532.0	2498.0	2491.0	2481.0
55°	3220.0	3204.0	3159.0	3125.0	3056.0	2986.0	2882.0	2796.0	2741.0	2711.0	2704.0
57.5°	3561.0	3542.0	3507.0	3452.0	3401.0	3310.0	3216.0	3112.0	3034.0	2990.0	2979.0
60°	3911.0	3895.0	3859.0	3830.0	3778.0	3712.0	3604.0	3500.0	3415.0	3371.0	3345.0
62.5°	4290.1	4280.1	4253.1	4234.1	4193.0	4119.0	4066.0	3983.0	3927.0	3879.0	3846.0
65°	4706.1	4703.1	4702.1	4709.1	4700.1	4664.1	4639.1	4583.1	4564.1	4541.1	4492.1
67.5°	4640.1	4657.1	4709.1	4777.1	4872.1	4978.1	5115.1	5227.1	5343.1	5424.1	5319.1
70°	4271.1	4292.1	4367.1	4488.1	4681.1	4929.1	5234.1	5572.1	5783.1	5791.1	5621.1
72.5°	3809.0	3828.0	3890.0	4064.0	4283.1	4658.1	5163.1	5542.1	5678.1	5651.1	5475.1
75°	3086.0	3126.0	3295.0	3468.0	3769.0	4175.0	4765.1	5167.1	5345.1	5266.1	5045.1
77.5°	2217.0	2216.0	2335.0	2592.0	2879.0	3365.0	3980.0	4505.1	4727.1	4700.1	4527.1
80°	1201.0	1244.0	1373.0	1585.0	1882.0	2297.0	2834.0	3332.0	3605.0	3694.0	3604.0
82.5°	536.0	559.0	648.0	821.0	1006.0	1310.0	1689.0	2067.0	2328.0	2437.0	2355.0
85°	169.0	175.0	207.0	291.0	382.0	542.0	757.0	996.0	1123.0	1038.0	893.0
87.5°	41.0	43.0	53.0	83.0	122.0	170.0	154.0	130.0	93.0	47.0	29.0
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°	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0
2.5°	874.0	873.0	874.0	875.0	875.0	874.0	874.0	876.0
5°	883.0	882.0	883.0	886.0	885.0	886.0	885.0	888.0
7.5°	892.0	891.0	890.0	893.0	893.0	894.0	893.0	895.0
10°	908.0	908.0	907.0	908.0	906.0	906.0	904.0	903.0
12.5°	935.0	934.0	935.0	932.0	930.0	929.0	927.0	924.0
15°	975.0	972.0	973.0	965.0	964.0	963.0	961.0	959.0
17.5°	1019.0	1012.0	1011.0	1002.0	1003.0	1000.0	997.0	997.0
20°	1065.0	1057.0	1052.0	1044.0	1043.0	1042.0	1037.0	1039.0
22.5°	1118.0	1106.0	1099.0	1092.0	1088.0	1090.0	1086.0	1088.0
25°	1178.0	1160.0	1145.0	1144.0	1143.0	1145.0	1144.0	1144.0
27.5°	1233.0	1206.0	1196.0	1201.0	1201.0	1203.0	1207.0	1206.0
30°	1276.0	1259.0	1255.0	1265.0	1265.0	1267.0	1271.0	1272.0
32.5°	1338.0	1329.0	1330.0	1343.0	1344.0	1349.0	1354.0	1358.0
35°	1417.0	1414.0	1422.0	1436.0	1440.0	1446.0	1455.0	1461.0
37.5°	1505.0	1512.0	1521.0	1537.0	1549.0	1557.0	1568.0	1574.0
40°	1631.0	1648.0	1663.0	1682.0	1692.0	1706.0	1719.0	1728.0
42.5°	1845.0	1856.0	1867.0	1883.0	1900.0	1912.0	1920.0	1926.0
45°	1975.0	1995.0	2023.0	2055.0	2087.0	2114.0	2135.0	2138.0
47.5°	2130.0	2161.0	2200.0	2250.0	2293.0	2319.0	2335.0	2344.0
50°	2316.0	2354.0	2409.0	2468.0	2517.0	2553.0	2573.0	2587.0
52.5°	2517.0	2565.0	2633.0	2706.0	2766.0	2802.0	2835.0	2851.0
55°	2745.0	2811.0	2895.0	2983.0	3049.0	3096.0	3120.0	3140.0
57.5°	3032.0	3115.0	3214.0	3301.0	3371.0	3422.0	3456.0	3473.0
60°	3412.0	3495.0	3583.0	3668.0	3747.0	3782.0	3812.0	3825.0
62.5°	3878.0	3941.0	4012.0	4073.0	4148.0	4199.0	4232.1	4242.1
65°	4489.1	4517.1	4595.1	4663.1	4663.1	4652.1	4647.1	4639.1
67.5°	5100.1	4912.1	4765.1	4693.1	4616.1	4558.1	4525.1	4505.1
70°	5372.1	4914.1	4565.1	4424.1	4204.0	4141.0	4113.0	4078.0
72.5°	5148.1	4619.1	4126.0	4005.0	3710.0	3744.0	3606.0	3548.0
75°	4675.1	4156.0	3715.0	3440.0	3295.0	3113.0	3039.0	3049.0
77.5°	4186.0	3609.0	3129.0	2851.0	2678.0	2499.0	2457.0	2458.0
80°	3242.0	2721.0	2314.0	2048.0	1841.0	1691.0	1569.0	1532.0
82.5°	2004.0	1654.0	1372.0	1187.0	1018.0	886.0	762.0	746.0
85°	683.0	543.0	405.0	327.0	260.0	210.0	171.0	165.0
87.5°	18.0	18.0	18.0	18.0	18.0	19.0	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)