

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: P198665

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-5WQ-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14077.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

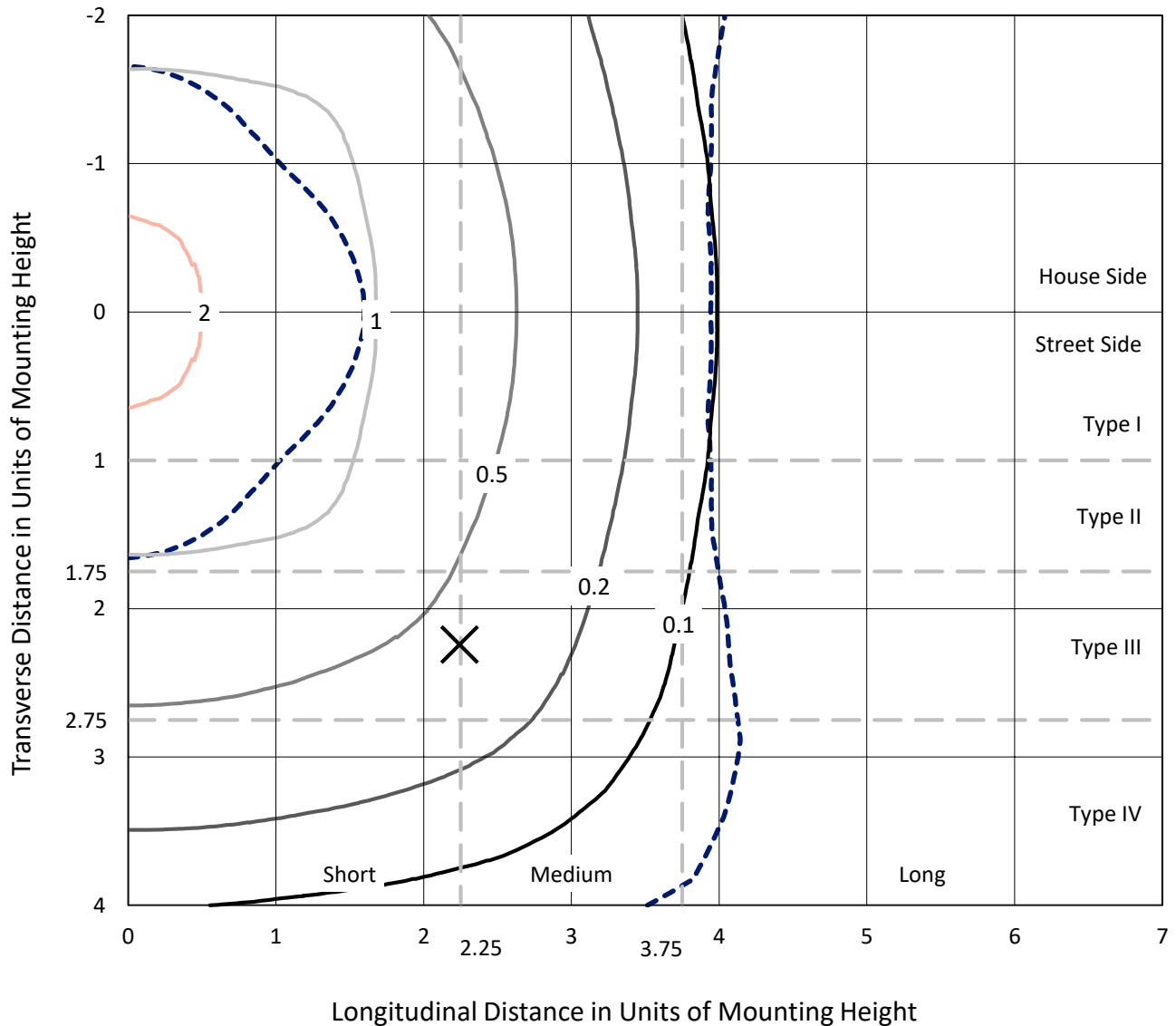
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

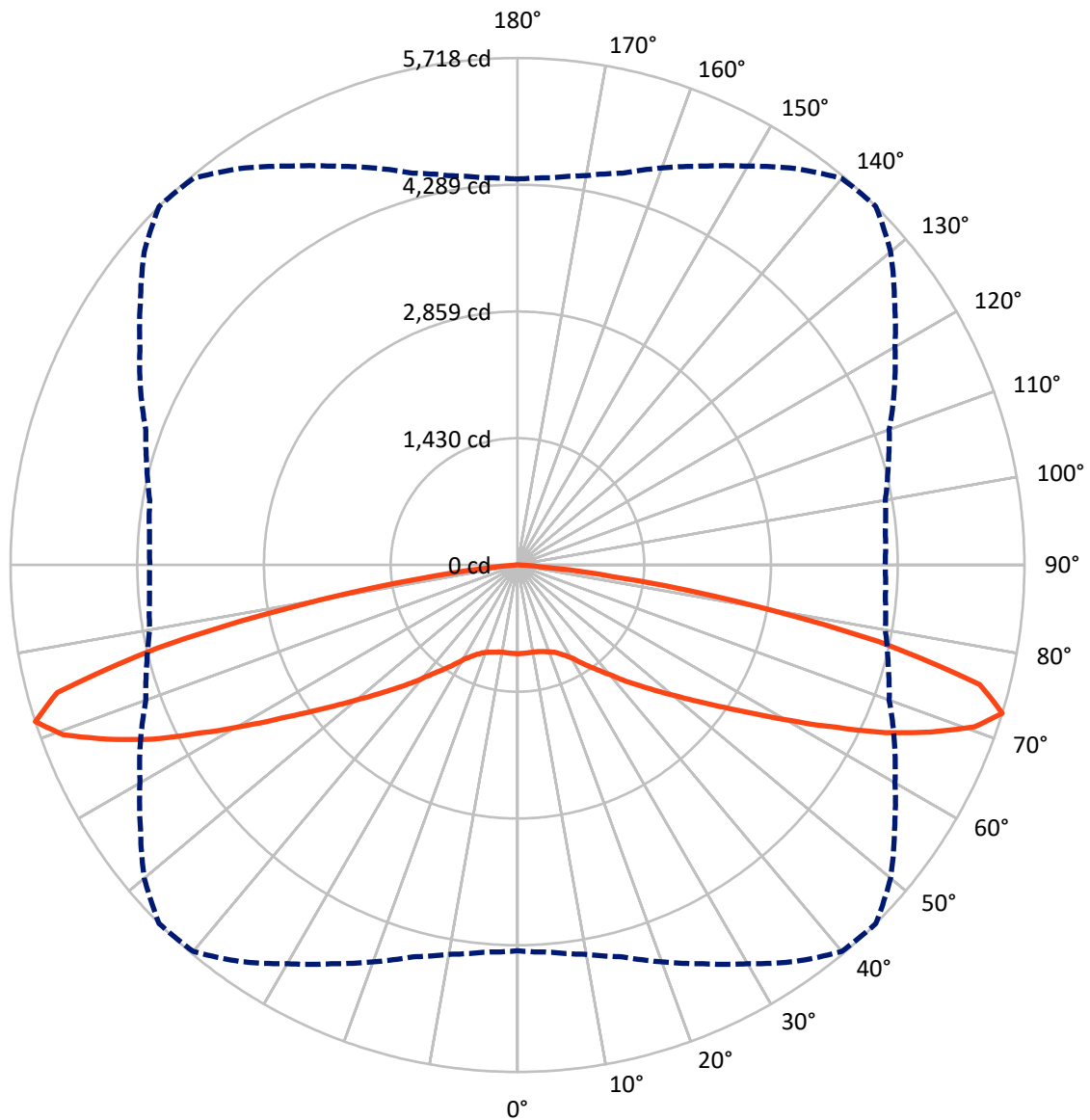


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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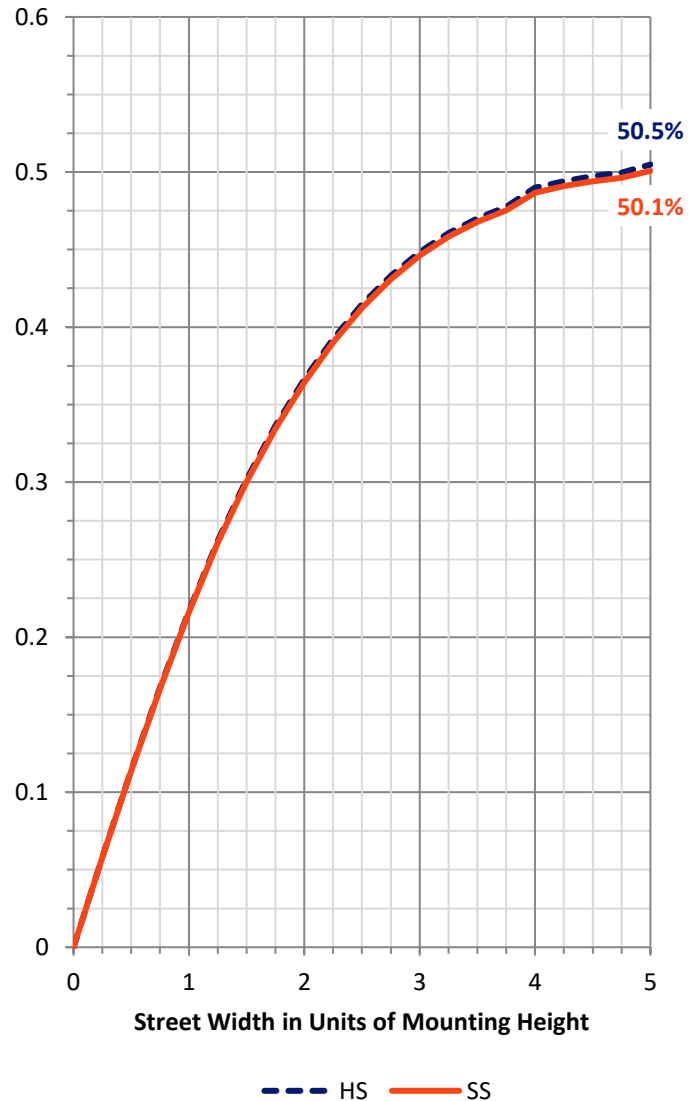
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7038.9	0.0	7038.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7038.9	0.0	7038.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	14077.8	0.0	14077.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	0.7
10°-20°	289.1	2.1
20°-30°	521.9	3.7
30°-40°	890.3	6.3
40°-50°	1515.7	10.8
50°-60°	2439.3	17.3
60°-70°	4056.5	28.8
70°-80°	3924.2	27.9
80°-90°	345.4	2.5
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°	14077.8	100.0
0°-180°	14077.8	100.0



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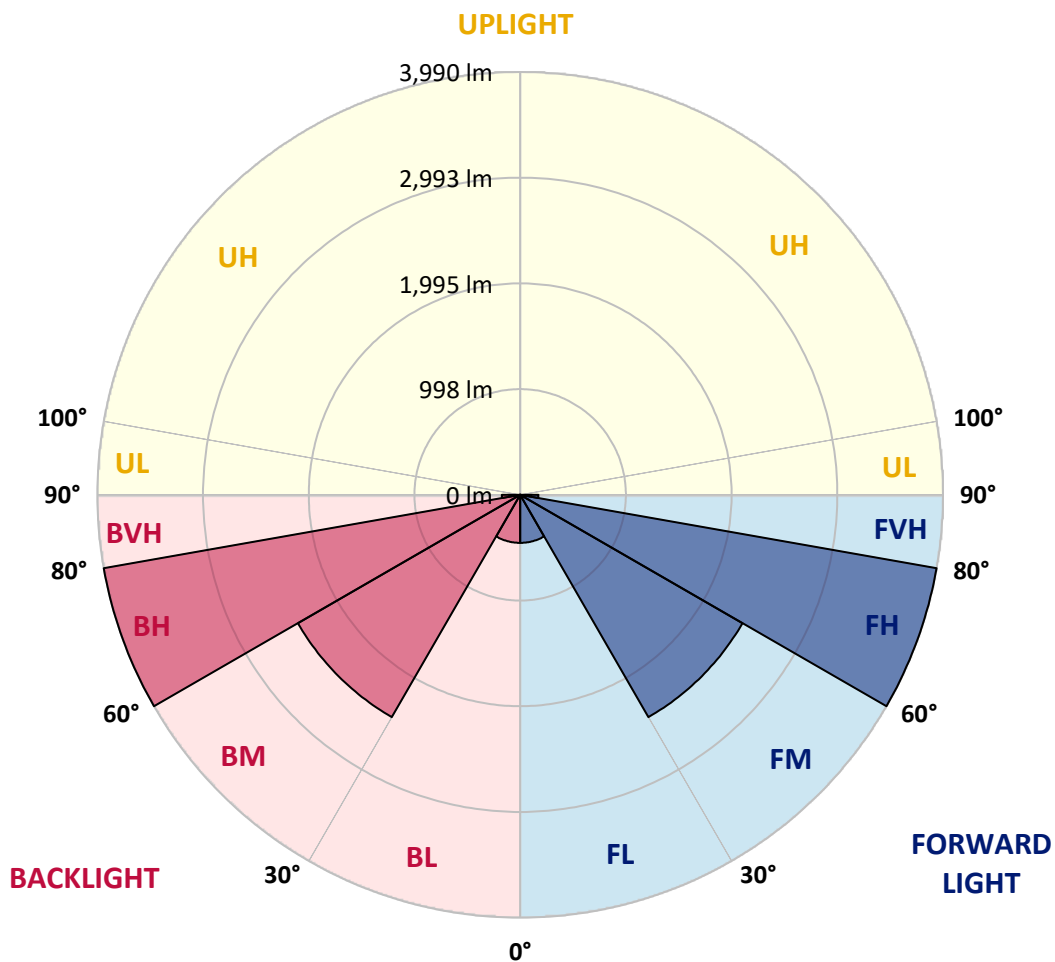
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.3	3.2			
FM	(30°-60°)	2422.6	17.2			
FH	(60°-80°)	3990.4	28.3			G2/5000
FVH	(80°-90°)	172.7	1.2			G2/225
BL	(0°-30°)	453.3	3.2	B1/500		
BM	(30°-60°)	2422.6	17.2	B2/2500		
BH	(60°-80°)	3990.4	28.3	B4/5000		G2/5000
BVH	(80°-90°)	172.7	1.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9
2.5°	1008.6	1008.6	1009.4	1008.6	1006.9	1006.1	1003.4	1001.7	999.9	999.1	997.4
5°	1009.4	1009.4	1010.4	1009.4	1007.8	1006.1	1004.3	1001.7	999.9	998.2	997.4
7.5°	1012.9	1013.8	1014.7	1013.8	1010.4	1008.6	1006.1	1003.4	999.9	998.2	996.5
10°	1019.9	1019.9	1019.9	1019.1	1016.4	1012.9	1009.4	1006.9	1002.6	998.2	995.6
12.5°	1025.1	1025.9	1025.9	1024.2	1020.8	1016.4	1012.9	1010.4	1006.9	1003.4	1000.9
15°	1032.9	1032.9	1032.1	1028.6	1023.4	1019.9	1018.1	1017.3	1016.4	1014.7	1012.1
17.5°	1048.5	1047.6	1045.0	1039.8	1033.8	1031.1	1029.4	1029.4	1029.4	1028.6	1026.8
20°	1071.0	1071.0	1067.6	1058.9	1053.6	1051.1	1048.5	1048.5	1048.5	1045.9	1043.3
22.5°	1107.4	1108.3	1103.0	1092.7	1085.8	1080.5	1077.1	1074.5	1071.8	1070.1	1065.8
25°	1156.8	1155.9	1149.9	1136.9	1131.7	1126.5	1119.5	1115.2	1111.7	1109.2	1104.0
27.5°	1208.8	1207.9	1200.9	1189.7	1186.2	1178.4	1173.2	1167.2	1162.9	1158.5	1153.4
30°	1275.5	1271.2	1266.0	1257.3	1255.6	1249.5	1242.6	1233.9	1227.0	1220.1	1214.0
32.5°	1335.3	1335.3	1327.5	1323.2	1326.7	1324.0	1324.9	1319.7	1315.4	1312.8	1306.7
35°	1418.5	1418.5	1415.0	1409.8	1410.6	1404.6	1403.8	1404.6	1408.1	1408.1	1401.1
37.5°	1529.4	1531.2	1519.9	1518.2	1513.8	1505.2	1500.8	1502.5	1510.4	1514.7	1505.2
40°	1667.2	1670.7	1667.2	1656.0	1650.7	1636.0	1627.3	1627.3	1633.3	1637.7	1634.3
42.5°	1803.3	1809.3	1803.3	1794.6	1790.3	1779.0	1774.6	1778.1	1785.9	1791.1	1785.9
45°	1954.9	1959.2	1951.4	1941.0	1935.8	1929.7	1927.1	1929.7	1938.4	1943.6	1941.9
47.5°	2103.9	2109.9	2100.4	2096.1	2096.1	2090.1	2096.9	2103.9	2111.7	2123.9	2118.6
50°	2249.5	2257.2	2251.2	2252.1	2259.0	2270.2	2283.3	2297.1	2311.1	2324.0	2325.8
52.5°	2379.5	2391.6	2392.5	2408.0	2429.7	2447.0	2483.4	2513.8	2546.7	2558.0	2552.8
55°	2516.4	2532.8	2554.5	2578.8	2613.4	2648.9	2710.5	2765.0	2808.4	2835.2	2830.9
57.5°	2712.3	2728.6	2751.2	2791.0	2843.1	2891.6	2975.7	3060.6	3126.4	3167.2	3147.2
60°	2966.0	2983.4	3012.9	3055.3	3123.0	3188.7	3304.0	3426.2	3528.5	3575.2	3538.9
62.5°	3302.3	3318.8	3337.8	3394.2	3469.5	3554.4	3699.2	3856.0	3986.0	4031.0	3979.9
65°	3781.4	3801.4	3807.5	3853.5	3927.1	4005.9	4161.9	4338.6	4486.9	4560.5	4458.2
67.5°	4321.4	4329.1	4353.4	4407.1	4482.5	4553.6	4676.6	4843.9	4986.0	5026.7	4917.5
70°	4637.6	4653.2	4695.7	4770.2	4860.3	4972.1	5106.4	5286.6	5447.8	5466.9	5328.2
72.5°	4351.6	4383.8	4459.1	4575.2	4764.1	4962.5	5193.9	5459.9	5691.3	5718.2	5495.5
75°	3490.3	3526.7	3616.8	3744.2	3967.8	4262.4	4596.8	4996.4	5343.0	5387.2	5092.6
77.5°	1860.4	1905.5	2036.3	2207.9	2526.8	2916.7	3319.7	3775.4	4070.0	4169.6	3957.4
80°	468.8	493.1	556.3	656.8	872.6	1187.1	1534.6	2025.0	2390.7	2545.8	2390.7
82.5°	182.0	200.2	217.5	229.7	250.4	293.8	405.5	661.1	890.8	1097.0	949.7
85°	70.2	74.5	107.4	122.1	122.1	134.3	154.3	182.0	225.3	246.1	206.2
87.5°	27.7	30.3	37.2	57.2	58.9	52.0	55.4	62.4	47.7	39.9	45.0
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°	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9	1000.9
2.5°	996.5	995.6	993.9	994.7	993.9	993.9	993.9	993.9
5°	995.6	995.6	993.9	993.9	993.9	994.7	993.9	993.9
7.5°	994.7	993.9	992.2	991.3	991.3	990.4	990.4	990.4
10°	993.1	991.3	989.6	988.7	988.7	986.9	986.9	986.9
12.5°	997.4	994.7	993.1	992.2	992.2	992.2	993.1	993.1
15°	1009.4	1004.3	1001.7	1000.9	1001.7	1003.4	1004.3	1005.2
17.5°	1022.5	1017.3	1012.9	1011.2	1012.1	1014.7	1017.3	1019.1
20°	1038.9	1034.6	1029.4	1027.7	1027.7	1031.1	1032.9	1035.5
22.5°	1062.3	1058.9	1054.6	1052.0	1050.3	1054.6	1057.1	1058.9
25°	1099.6	1096.2	1092.7	1090.1	1089.2	1093.5	1095.3	1096.2
27.5°	1149.0	1145.5	1143.8	1142.9	1140.4	1142.0	1144.7	1143.8
30°	1213.1	1215.8	1213.1	1213.1	1208.8	1210.6	1208.8	1207.1
32.5°	1298.9	1296.3	1288.5	1283.3	1277.3	1277.3	1274.7	1272.0
35°	1384.7	1376.1	1371.7	1374.3	1371.7	1373.4	1369.1	1364.7
37.5°	1486.0	1480.9	1480.0	1487.8	1486.0	1487.8	1487.8	1481.7
40°	1620.4	1616.9	1623.0	1636.0	1641.2	1640.3	1642.0	1634.3
42.5°	1774.6	1768.6	1771.1	1782.4	1788.5	1790.3	1789.3	1782.4
45°	1928.9	1930.6	1930.6	1942.7	1948.8	1952.3	1946.2	1943.6
47.5°	2103.1	2105.6	2099.6	2107.4	2109.1	2115.2	2109.9	2105.6
50°	2304.1	2294.6	2280.7	2283.3	2283.3	2281.6	2275.5	2270.2
52.5°	2528.5	2506.8	2480.9	2472.2	2462.7	2453.1	2441.0	2431.5
55°	2784.2	2746.8	2700.1	2678.4	2660.2	2638.6	2610.8	2601.3
57.5°	3080.5	3016.4	2954.0	2915.0	2868.1	2839.6	2804.0	2802.3
60°	3432.3	3345.7	3235.6	3177.5	3130.7	3097.0	3070.1	3059.6
62.5°	3838.7	3689.7	3570.9	3508.5	3454.0	3433.1	3399.4	3403.7
65°	4255.5	4103.9	3988.6	3938.4	3887.2	3873.3	3842.1	3853.5
67.5°	4706.9	4582.1	4455.7	4408.8	4362.1	4348.2	4316.1	4325.6
70°	5111.6	4953.0	4809.2	4717.3	4637.6	4573.5	4532.8	4516.3
72.5°	5192.2	4917.5	4691.4	4461.7	4329.1	4213.0	4165.4	4147.1
75°	4665.4	4239.0	3916.7	3647.2	3498.2	3329.2	3311.0	3285.8
77.5°	3629.0	3143.7	2753.8	2407.2	2207.0	2000.8	1929.7	1876.0
80°	2164.6	1663.7	1289.4	903.8	737.4	593.5	558.0	520.8
82.5°	774.7	496.5	334.5	260.9	233.1	214.9	201.0	182.8
85°	187.2	157.7	149.0	135.1	133.4	113.5	80.6	71.9
87.5°	59.7	54.6	55.4	52.9	55.4	41.6	33.8	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)