

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: P573252

Luminaire Tested: **ARCH-S-PA2-50-750-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-50-750-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8015 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

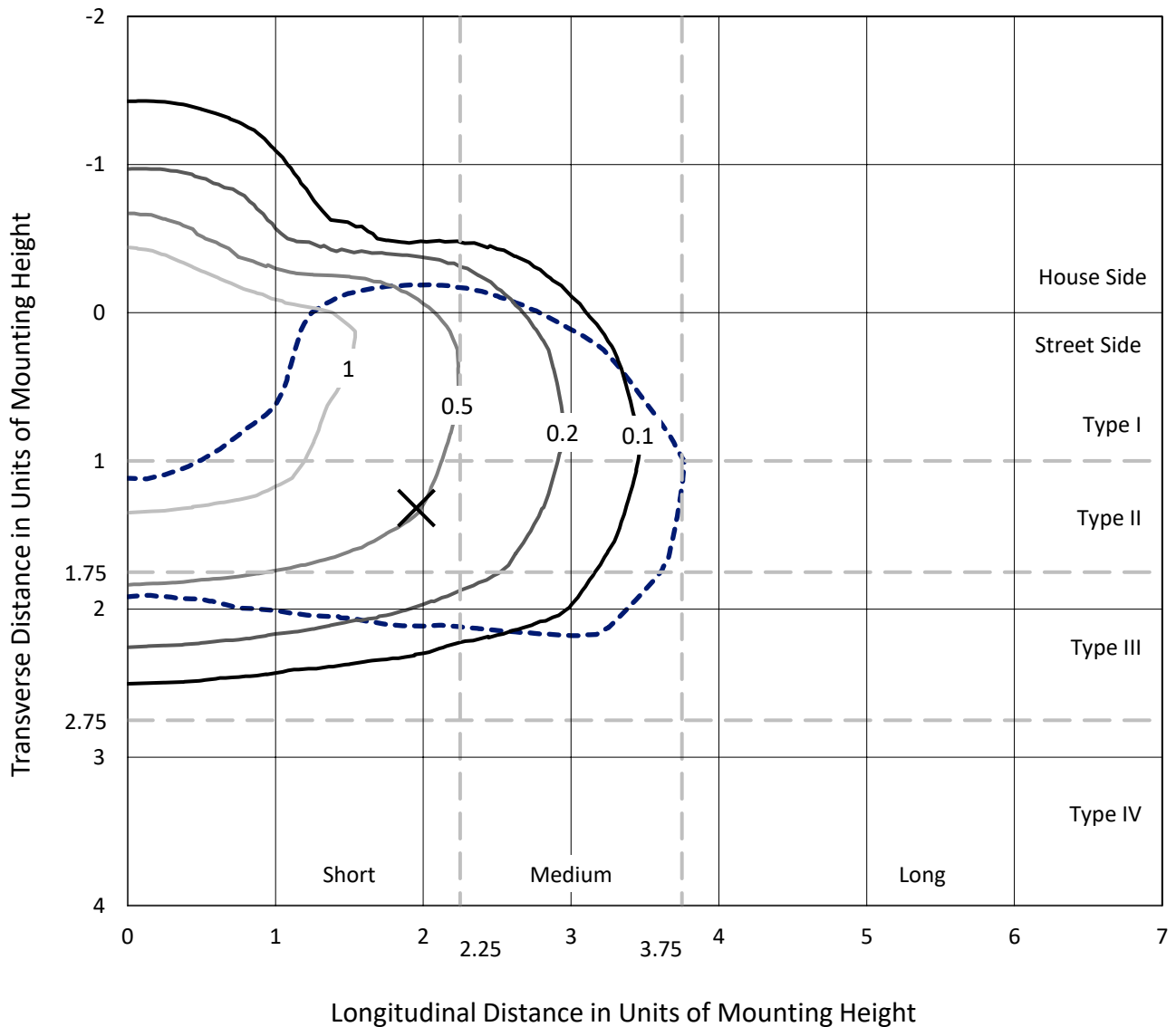
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

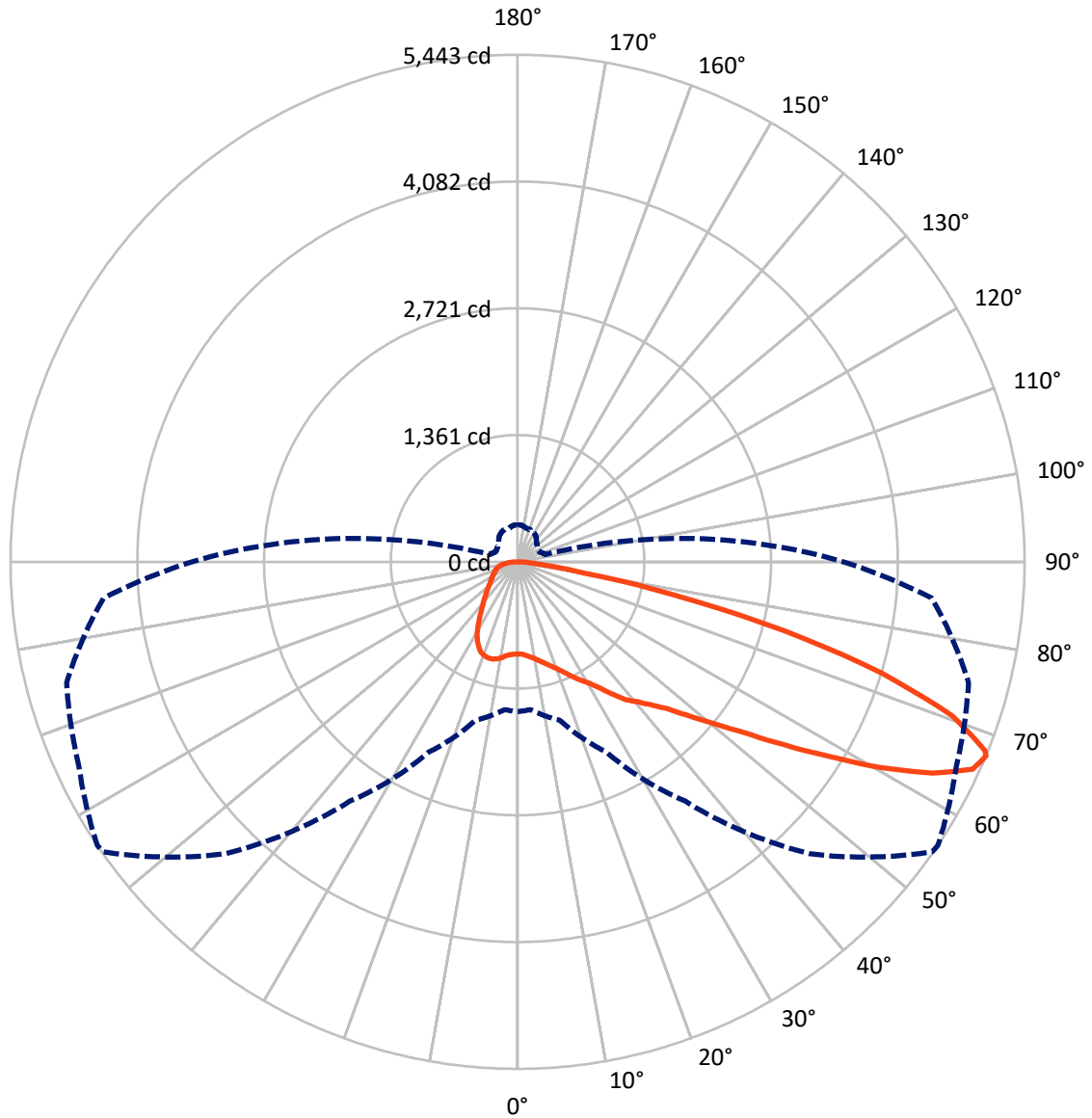
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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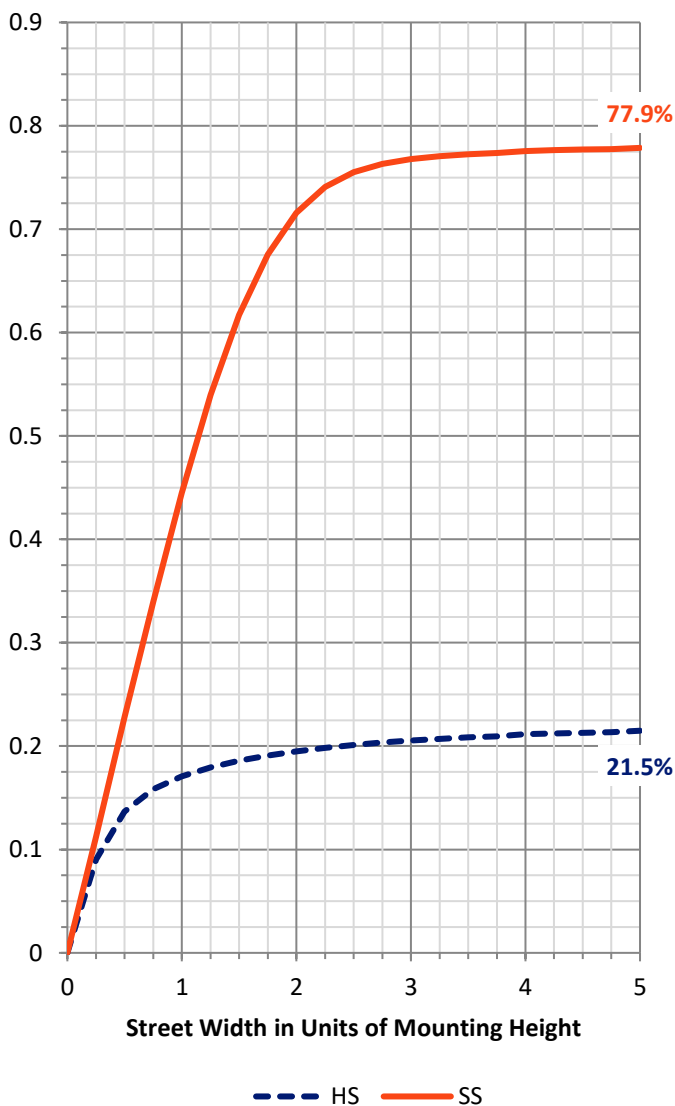
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1753.5	0.0	1753.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6261.5	0.0	6261.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	8015.0	0.0	8015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.2
10°-20°	312.2	3.9
20°-30°	543.4	6.8
30°-40°	796.7	9.9
40°-50°	1165.7	14.5
50°-60°	1821.8	22.7
60°-70°	2165.3	27.0
70°-80°	986.1	12.3
80°-90°	126.5	1.6
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°	8015.0	100.0
0°-180°	8015.0	100.0

Coefficient of Utilization

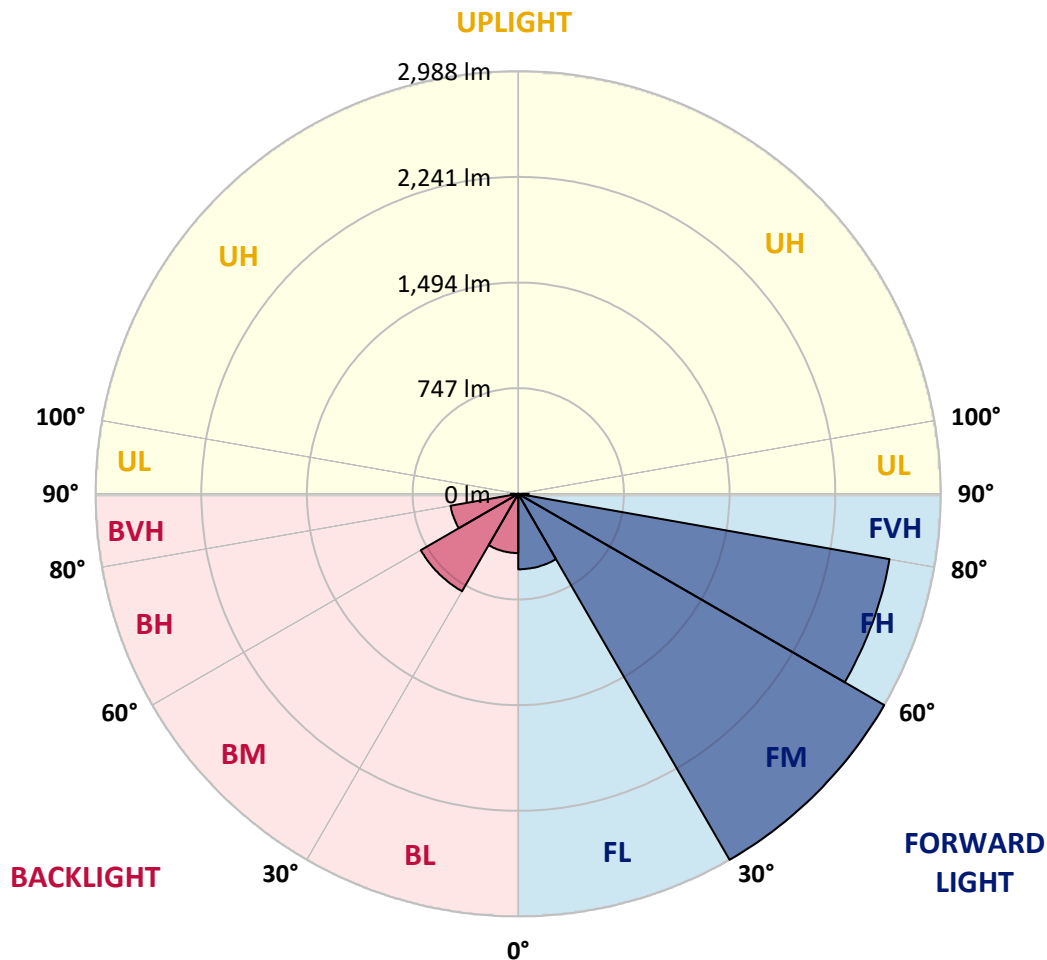


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.9	6.7			
FM (30°-60°)	2988.2	37.3			
FH (60°-80°)	2665.7	33.3			G2/5000
FVH (80°-90°)	73.7	0.9			G1/100
BL (0°-30°)	419.1	5.2	B1/500		
BM (30°-60°)	796.0	9.9	B1/1000		
BH (60°-80°)	485.8	6.1	B1/500		G1/500
BVH (80°-90°)	52.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5
2.5°	1004.7	1000.4	998.2	1000.4	998.2	993.9	996.0	993.9	991.7	989.5	989.5
5°	1017.7	1013.4	1011.2	1013.4	1015.6	1011.2	1011.2	1011.2	1004.7	1002.6	998.2
7.5°	1026.4	1019.9	1019.9	1024.3	1028.6	1030.8	1035.1	1032.9	1026.4	1022.1	1013.4
10°	1054.6	1046.0	1046.0	1046.0	1050.3	1054.6	1059.0	1061.1	1059.0	1056.8	1050.3
12.5°	1098.0	1089.4	1089.4	1089.4	1089.4	1087.2	1093.7	1095.9	1100.2	1100.2	1089.4
15°	1156.6	1145.8	1141.4	1132.8	1130.6	1126.3	1134.9	1134.9	1141.4	1143.6	1132.8
17.5°	1213.1	1200.0	1195.7	1187.0	1178.3	1167.5	1176.2	1178.3	1191.4	1193.5	1176.2
20°	1271.6	1267.3	1260.8	1247.8	1232.6	1221.7	1230.4	1228.2	1239.1	1243.4	1221.7
22.5°	1347.6	1336.7	1332.4	1315.0	1297.7	1286.8	1286.8	1291.2	1302.0	1302.0	1269.5
25°	1438.7	1423.5	1412.7	1393.2	1371.5	1358.4	1360.6	1365.0	1380.1	1369.3	1319.4
27.5°	1551.6	1536.4	1521.2	1482.1	1460.4	1434.4	1432.2	1436.6	1460.4	1432.2	1367.1
30°	1657.9	1651.4	1638.4	1608.0	1573.3	1529.9	1510.3	1512.5	1529.9	1490.8	1408.4
32.5°	1749.1	1740.4	1733.9	1712.2	1688.3	1636.2	1610.2	1612.3	1610.2	1562.4	1458.3
35°	1857.6	1844.5	1840.2	1820.7	1790.3	1755.6	1744.7	1740.4	1727.4	1662.3	1523.4
37.5°	1961.7	1948.7	1942.2	1931.3	1907.5	1877.1	1877.1	1874.9	1848.9	1757.7	1588.5
40°	2085.4	2070.2	2050.7	2044.2	2024.6	2002.9	1985.6	1974.7	1929.2	1846.7	1714.3
42.5°	2235.1	2226.5	2215.6	2187.4	2157.0	2152.7	2102.8	2098.4	2065.9	2018.1	1892.3
45°	2450.0	2432.6	2417.4	2408.7	2371.9	2332.8	2263.4	2246.0	2246.0	2235.1	2100.6
47.5°	2667.0	2636.6	2658.3	2651.8	2643.1	2599.7	2465.2	2467.3	2463.0	2491.2	2406.6
50°	2812.4	2795.0	2855.8	2884.0	2944.7	2944.7	2751.6	2727.7	2745.1	2827.6	2719.1
52.5°	2925.2	2914.4	2983.8	3094.5	3274.6	3292.0	3092.3	3042.4	3066.3	3183.4	3140.0
55°	3016.4	3005.5	3085.8	3278.9	3567.5	3673.9	3485.1	3463.4	3415.6	3541.5	3554.5
57.5°	3070.6	3046.7	3168.3	3426.5	3806.3	4051.5	3945.1	3938.6	3828.0	3945.1	4003.7
60°	2988.1	2973.0	3140.0	3487.3	3999.4	4407.4	4485.5	4485.5	4288.0	4350.9	4422.5
62.5°	2721.2	2701.7	2877.5	3346.2	4023.3	4698.1	5021.5	4995.4	4730.7	4728.5	4665.6
65°	2213.4	2189.6	2387.0	2881.8	3721.6	4732.9	5383.9	5368.7	5062.7	4975.9	4680.8
67°	1608.0	1592.8	1762.1	2252.5	3135.7	4431.2	5429.4	5442.5	5195.1	5010.6	4461.6
67.5°	1443.1	1440.9	1582.0	2068.0	2964.3	4320.6	5399.1	5412.1	5192.9	4982.4	4374.8
70°	672.7	703.1	835.5	1184.8	1998.6	3402.6	4900.0	4949.9	4915.1	4656.9	3684.7
72.5°	312.5	325.5	384.1	572.9	1074.2	2193.9	3971.2	4090.5	4242.4	3995.0	2918.7
75°	193.1	197.5	230.0	297.3	505.6	1054.6	2827.6	2957.8	3187.8	3005.5	1866.2
77.5°	151.9	154.1	175.8	212.7	295.1	453.5	1551.6	1714.3	2013.8	1777.3	939.6
80°	112.8	117.2	134.5	164.9	208.3	232.2	659.7	720.5	972.2	744.3	390.6
82.5°	82.5	86.8	104.2	119.4	145.4	147.6	269.1	284.3	416.6	301.6	169.3
85°	69.4	69.4	80.3	89.0	97.7	82.5	132.4	130.2	160.6	136.7	67.3
87.5°	32.6	34.7	76.0	56.4	47.7	34.7	39.1	41.2	49.9	54.3	26.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5
2.5°	987.4	987.4	987.4	989.5	991.7	991.7	993.9	993.9	996.0	998.2	1002.6
5°	996.0	996.0	993.9	996.0	1000.4	1002.6	1006.9	1011.2	1015.6	1019.9	1022.1
7.5°	1013.4	1011.2	1011.2	1011.2	1015.6	1019.9	1026.4	1030.8	1037.3	1039.4	1043.8
10°	1046.0	1041.6	1041.6	1043.8	1046.0	1039.4	1037.3	1035.1	1041.6	1046.0	1050.3
12.5°	1085.0	1080.7	1078.5	1072.0	1063.3	1050.3	1039.4	1030.8	1032.9	1037.3	1043.8
15°	1126.3	1117.6	1113.2	1098.0	1076.3	1048.1	1030.8	1019.9	1019.9	1019.9	1026.4
17.5°	1169.7	1161.0	1143.6	1115.4	1074.2	1035.1	1013.4	993.9	985.2	983.0	987.4
20°	1210.9	1197.9	1169.7	1126.3	1061.1	1009.1	980.9	948.3	935.3	926.6	930.9
22.5°	1249.9	1232.6	1193.5	1126.3	1039.4	970.0	920.1	876.7	855.0	850.7	852.8
25°	1291.2	1269.5	1217.4	1113.2	991.7	911.4	842.0	796.4	768.2	763.9	770.4
27.5°	1332.4	1299.9	1236.9	1078.5	937.5	831.1	757.3	713.9	698.8	690.1	692.2
30°	1367.1	1336.7	1256.5	1030.8	863.7	737.8	670.5	651.0	640.2	635.8	635.8
32.5°	1412.7	1384.5	1269.5	974.3	776.9	653.2	609.8	594.6	585.9	575.1	577.2
35°	1469.1	1443.1	1263.0	902.7	694.4	596.8	562.0	540.3	520.8	505.6	503.4
37.5°	1545.1	1525.5	1230.4	815.9	618.5	555.5	520.8	492.6	464.4	440.5	436.2
40°	1670.9	1625.4	1182.7	720.5	566.4	523.0	481.7	447.0	412.3	386.3	379.8
42.5°	1831.5	1736.0	1117.6	622.8	523.0	488.3	447.0	401.5	368.9	345.0	345.0
45°	2018.1	1855.4	1039.4	549.0	477.4	453.5	403.6	364.6	345.0	329.8	327.7
47.5°	2239.5	1974.7	939.6	490.4	440.5	423.2	373.2	349.4	336.4	323.3	321.2
50°	2536.8	2135.3	865.8	440.5	403.6	388.4	364.6	345.0	332.0	323.3	321.2
52.5°	2877.5	2341.5	813.8	401.5	373.2	366.7	362.4	347.2	334.2	327.7	325.5
55°	3246.4	2595.4	763.9	368.9	349.4	358.1	366.7	351.5	342.9	334.2	329.8
57.5°	3593.6	2810.2	683.6	340.7	332.0	347.2	364.6	353.7	342.9	336.4	334.2
60°	3830.1	2918.7	572.9	314.7	314.7	332.0	358.1	342.9	332.0	334.2	334.2
62.5°	3906.1	2877.5	453.5	290.8	297.3	314.7	338.5	329.8	325.5	336.4	336.4
65°	3793.2	2710.4	362.4	271.3	279.9	293.0	327.7	336.4	349.4	373.2	375.4
67°	3498.1	2441.3	306.0	256.1	264.7	286.4	340.7	371.1	371.1	397.1	397.1
67.5°	3411.3	2350.2	297.3	251.7	262.6	286.4	347.2	379.8	371.1	401.5	401.5
70°	2773.3	1848.9	251.7	238.7	253.9	301.6	375.4	381.9	362.4	390.6	388.4
72.5°	2057.2	1336.7	230.0	225.7	236.5	284.3	373.2	366.7	338.5	347.2	340.7
75°	1271.6	774.7	212.7	208.3	214.8	251.7	345.0	334.2	301.6	295.1	288.6
77.5°	614.1	392.8	182.3	188.8	195.3	219.2	303.8	293.0	264.7	249.6	247.4
80°	266.9	201.8	156.2	167.1	169.3	186.6	251.7	238.7	212.7	188.8	188.8
82.5°	132.4	112.8	123.7	138.9	134.5	149.7	197.5	175.8	156.2	130.2	125.9
85°	60.8	65.1	91.1	104.2	91.1	93.3	134.5	123.7	97.7	73.8	76.0
87.5°	21.7	30.4	52.1	62.9	45.6	43.4	71.6	52.1	30.4	8.7	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)