

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: P573441

Luminaire Tested: **ARCH-S-PA2-70-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573441
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-PA2-70-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8508 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

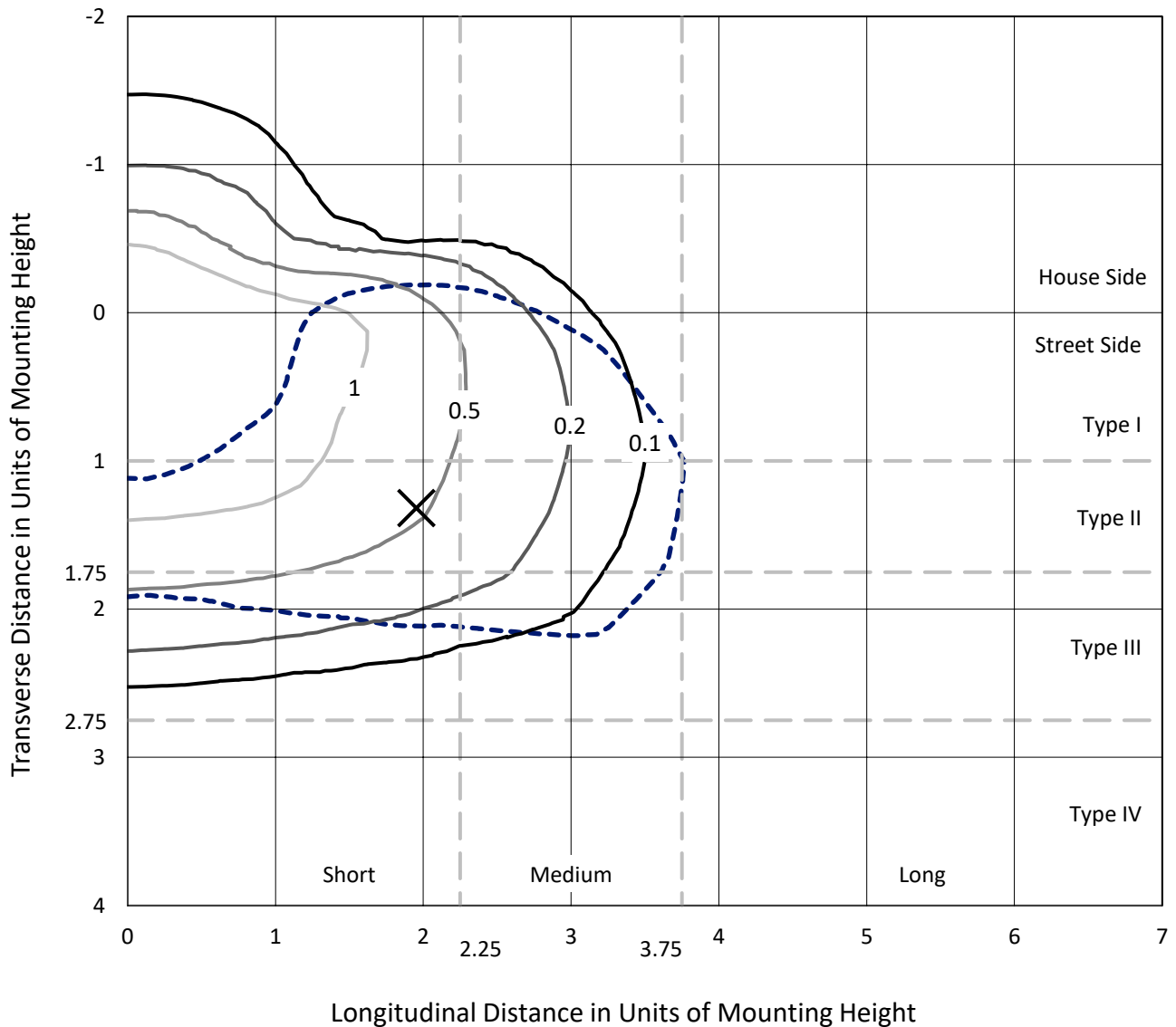
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

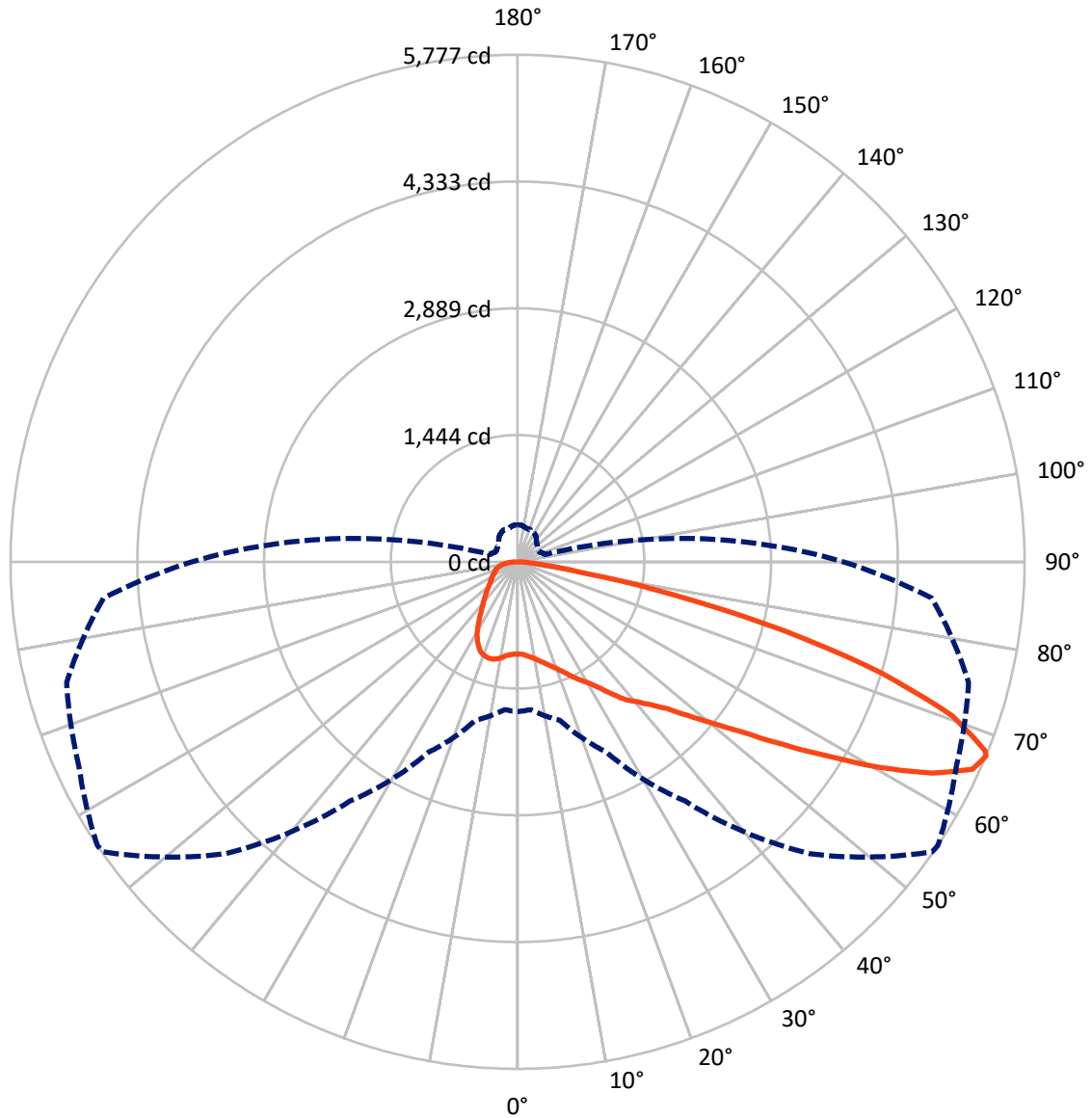
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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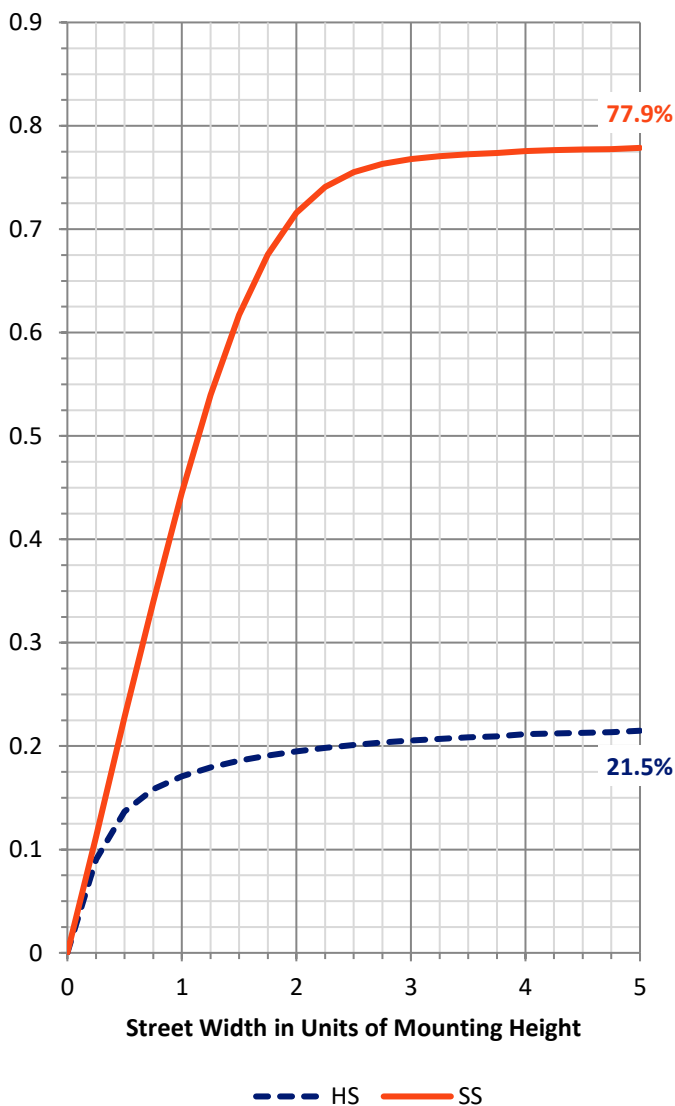
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1861.4	0.0	1861.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6646.6	0.0	6646.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	8508.0	0.0	8508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	1.2
10°-20°	331.4	3.9
20°-30°	576.8	6.8
30°-40°	845.7	9.9
40°-50°	1237.4	14.5
50°-60°	1933.9	22.7
60°-70°	2298.5	27.0
70°-80°	1046.8	12.3
80°-90°	134.2	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°	8508.0	100.0
0°-180°	8508.0	100.0

Coefficient of Utilization



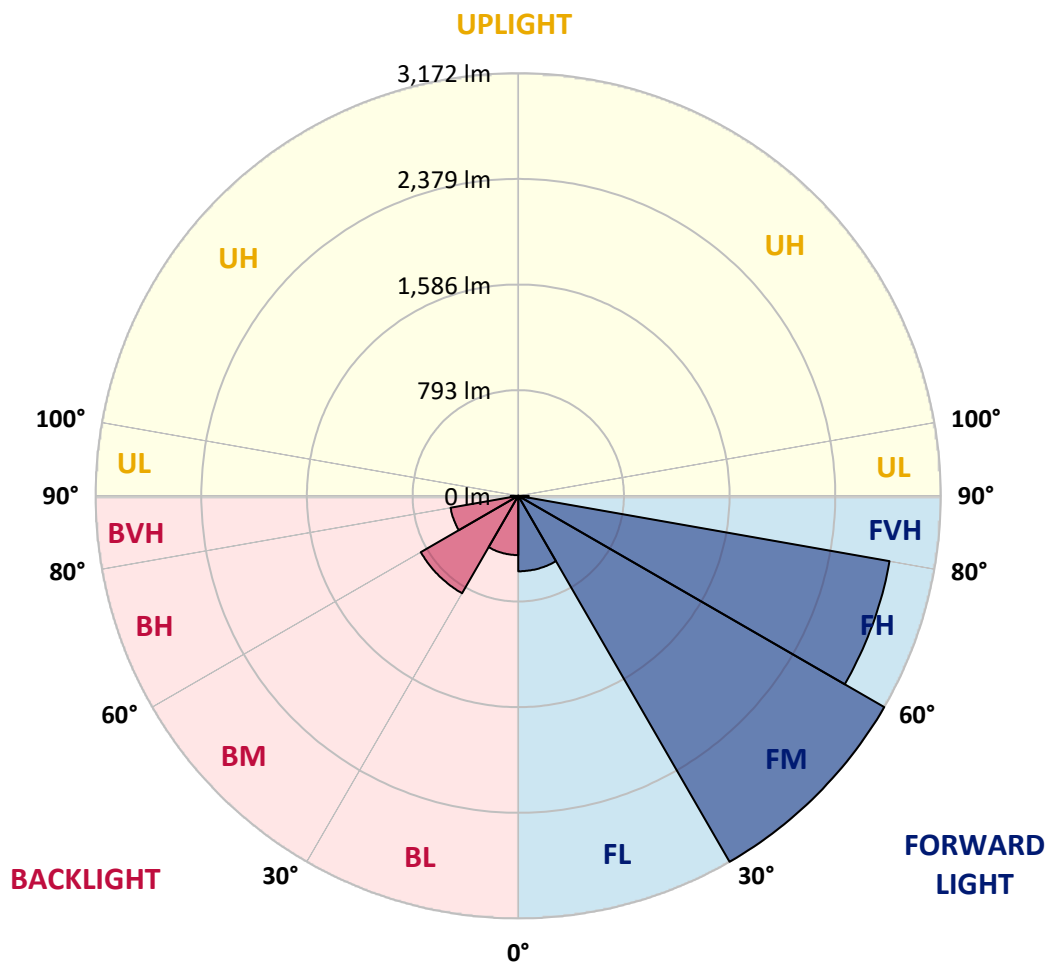
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.7	6.7			
FM (30°-60°)	3172.0	37.3			
FH (60°-80°)	2829.6	33.3			G2/5000
FVH (80°-90°)	78.3	0.9			G1/100
BL (0°-30°)	444.8	5.2	B1/500		
BM (30°-60°)	844.9	9.9	B1/1000		
BH (60°-80°)	515.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	56.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4
2.5°	1066.5	1061.9	1059.6	1061.9	1059.6	1055.0	1057.3	1055.0	1052.7	1050.4	1050.4
5°	1080.4	1075.7	1073.4	1075.7	1078.0	1073.4	1073.4	1073.4	1066.5	1064.2	1059.6
7.5°	1089.6	1082.7	1082.7	1087.3	1091.9	1094.2	1098.8	1096.5	1089.6	1085.0	1075.7
10°	1119.5	1110.3	1110.3	1110.3	1114.9	1119.5	1124.1	1126.4	1124.1	1121.8	1114.9
12.5°	1165.6	1156.4	1156.4	1156.4	1156.4	1154.1	1161.0	1163.3	1167.9	1167.9	1156.4
15°	1227.8	1216.3	1211.7	1202.4	1200.1	1195.5	1204.7	1204.7	1211.7	1214.0	1202.4
17.5°	1287.7	1273.8	1269.2	1260.0	1250.8	1239.3	1248.5	1250.8	1264.6	1266.9	1248.5
20°	1349.9	1345.3	1338.3	1324.5	1308.4	1296.9	1306.1	1303.8	1315.3	1319.9	1296.9
22.5°	1430.5	1419.0	1414.4	1395.9	1377.5	1366.0	1366.0	1370.6	1382.1	1382.1	1347.6
25°	1527.2	1511.1	1499.6	1478.9	1455.8	1442.0	1444.3	1448.9	1465.0	1453.5	1400.5
27.5°	1647.0	1630.9	1614.8	1573.3	1550.3	1522.6	1520.3	1524.9	1550.3	1520.3	1451.2
30°	1759.9	1753.0	1739.2	1706.9	1670.1	1624.0	1603.2	1605.6	1624.0	1582.5	1495.0
32.5°	1856.6	1847.4	1840.5	1817.5	1792.1	1736.9	1709.2	1711.5	1709.2	1658.5	1548.0
35°	1971.8	1958.0	1953.4	1932.7	1900.4	1863.5	1852.0	1847.4	1833.6	1764.5	1617.1
37.5°	2082.4	2068.6	2061.6	2050.1	2024.8	1992.5	1992.5	1990.2	1962.6	1865.9	1686.2
40°	2213.7	2197.6	2176.8	2169.9	2149.2	2126.1	2107.7	2096.2	2047.8	1960.3	1819.8
42.5°	2372.6	2363.4	2351.9	2321.9	2289.7	2285.1	2232.1	2227.5	2193.0	2142.3	2008.7
45°	2600.7	2582.2	2566.1	2556.9	2517.7	2476.3	2402.6	2384.1	2384.1	2372.6	2229.8
47.5°	2831.0	2798.8	2821.8	2814.9	2805.7	2759.6	2616.8	2619.1	2614.5	2644.4	2554.6
50°	2985.4	2966.9	3031.4	3061.4	3125.9	3125.9	2920.9	2895.5	2914.0	3001.5	2886.3
52.5°	3105.1	3093.6	3167.3	3284.8	3476.0	3494.4	3282.5	3229.5	3254.9	3379.3	3333.2
55°	3201.9	3190.4	3275.6	3480.6	3787.0	3899.9	3699.5	3676.4	3625.7	3759.3	3773.2
57.5°	3259.5	3234.1	3363.1	3637.3	4040.4	4300.7	4187.8	4180.9	4063.4	4187.8	4250.0
60°	3171.9	3155.8	3333.2	3701.8	4245.4	4678.4	4761.4	4761.4	4551.8	4618.6	4694.6
62.5°	2888.6	2867.9	3054.5	3552.0	4270.7	4987.1	5330.3	5302.7	5021.7	5019.4	4952.6
65°	2349.6	2324.3	2533.9	3059.1	3950.5	5024.0	5715.0	5698.9	5374.1	5282.0	4968.7
67°	1706.9	1690.8	1870.5	2391.1	3328.6	4703.8	5763.4	5777.2	5514.6	5318.8	4736.0
67.5°	1531.8	1529.5	1679.3	2195.3	3146.6	4586.3	5731.2	5745.0	5512.3	5288.9	4643.9
70°	714.1	746.3	886.9	1257.7	2121.5	3611.9	5201.3	5254.3	5217.5	4943.4	3911.4
72.5°	331.7	345.5	407.7	608.1	1140.2	2328.9	4215.4	4342.1	4503.4	4240.8	3098.2
75°	205.0	209.6	244.2	315.6	536.7	1119.5	3001.5	3139.7	3383.9	3190.4	1981.0
77.5°	161.2	163.5	186.6	225.7	313.3	481.4	1647.0	1819.8	2137.7	1886.6	997.4
80°	119.8	124.4	142.8	175.1	221.1	246.5	700.3	764.8	1032.0	790.1	414.6
82.5°	87.5	92.1	110.6	126.7	154.3	156.6	285.6	301.8	442.3	320.2	179.7
85°	73.7	73.7	85.2	94.4	103.7	87.5	140.5	138.2	170.5	145.1	71.4
87.5°	34.6	36.9	80.6	59.9	50.7	36.9	41.5	43.8	53.0	57.6	27.6
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°	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4
2.5°	1048.1	1048.1	1048.1	1050.4	1052.7	1052.7	1055.0	1055.0	1057.3	1059.6	1064.2
5°	1057.3	1057.3	1055.0	1057.3	1061.9	1064.2	1068.8	1073.4	1078.0	1082.7	1085.0
7.5°	1075.7	1073.4	1073.4	1073.4	1078.0	1082.7	1089.6	1094.2	1101.1	1103.4	1108.0
10°	1110.3	1105.7	1105.7	1108.0	1110.3	1103.4	1101.1	1098.8	1105.7	1110.3	1114.9
12.5°	1151.8	1147.2	1144.8	1137.9	1128.7	1114.9	1103.4	1094.2	1096.5	1101.1	1108.0
15°	1195.5	1186.3	1181.7	1165.6	1142.5	1112.6	1094.2	1082.7	1082.7	1082.7	1089.6
17.5°	1241.6	1232.4	1214.0	1184.0	1140.2	1098.8	1075.7	1055.0	1045.8	1043.5	1048.1
20°	1285.4	1271.5	1241.6	1195.5	1126.4	1071.1	1041.2	1006.6	992.8	983.6	988.2
22.5°	1326.8	1308.4	1266.9	1195.5	1103.4	1029.7	976.7	930.6	907.6	903.0	905.3
25°	1370.6	1347.6	1292.3	1181.7	1052.7	967.5	893.8	845.4	815.4	810.8	817.7
27.5°	1414.4	1379.8	1313.0	1144.8	995.1	882.2	803.9	757.9	741.7	732.5	734.8
30°	1451.2	1419.0	1333.7	1094.2	916.8	783.2	711.8	691.1	679.5	674.9	674.9
32.5°	1499.6	1469.6	1347.6	1034.3	824.7	693.4	647.3	631.2	622.0	610.4	612.7
35°	1559.5	1531.8	1340.6	958.3	737.1	633.5	596.6	573.6	552.8	536.7	534.4
37.5°	1640.1	1619.4	1306.1	866.1	656.5	589.7	552.8	522.9	493.0	467.6	463.0
40°	1773.7	1725.3	1255.4	764.8	601.2	555.1	511.4	474.5	437.7	410.0	403.1
42.5°	1944.2	1842.8	1186.3	661.1	555.1	518.3	474.5	426.2	391.6	366.3	366.3
45°	2142.3	1969.5	1103.4	582.8	506.8	481.4	428.5	387.0	366.3	350.1	347.8
47.5°	2377.2	2096.2	997.4	520.6	467.6	449.2	396.2	370.9	357.0	343.2	340.9
50°	2692.8	2266.7	919.1	467.6	428.5	412.3	387.0	366.3	352.4	343.2	340.9
52.5°	3054.5	2485.5	863.8	426.2	396.2	389.3	384.7	368.6	354.7	347.8	345.5
55°	3446.1	2755.0	810.8	391.6	370.9	380.1	389.3	373.2	364.0	354.7	350.1
57.5°	3814.6	2983.1	725.6	361.7	352.4	368.6	387.0	375.5	364.0	357.0	354.7
60°	4065.7	3098.2	608.1	334.0	334.0	352.4	380.1	364.0	352.4	354.7	354.7
62.5°	4146.3	3054.5	481.4	308.7	315.6	334.0	359.3	350.1	345.5	357.0	357.0
65°	4026.6	2877.1	384.7	287.9	297.2	311.0	347.8	357.0	370.9	396.2	398.5
67°	3713.3	2591.5	324.8	271.8	281.0	304.1	361.7	393.9	393.9	421.5	421.5
67.5°	3621.1	2494.7	315.6	267.2	278.7	304.1	368.6	403.1	393.9	426.2	426.2
70°	2943.9	1962.6	267.2	253.4	269.5	320.2	398.5	405.4	384.7	414.6	412.3
72.5°	2183.7	1419.0	244.2	239.6	251.1	301.8	396.2	389.3	359.3	368.6	361.7
75°	1349.9	822.4	225.7	221.1	228.0	267.2	366.3	354.7	320.2	313.3	306.4
77.5°	651.9	416.9	193.5	200.4	207.3	232.7	322.5	311.0	281.0	264.9	262.6
80°	283.3	214.2	165.9	177.4	179.7	198.1	267.2	253.4	225.7	200.4	200.4
82.5°	140.5	119.8	131.3	147.4	142.8	158.9	209.6	186.6	165.9	138.2	133.6
85°	64.5	69.1	96.7	110.6	96.7	99.1	142.8	131.3	103.7	78.3	80.6
87.5°	23.0	32.2	55.3	66.8	48.4	46.1	76.0	55.3	32.2	9.2	11.5
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)