

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: P572712

Luminaire Tested: **ARCH-S-PA2-100-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572712
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-PA2-100-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11051 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

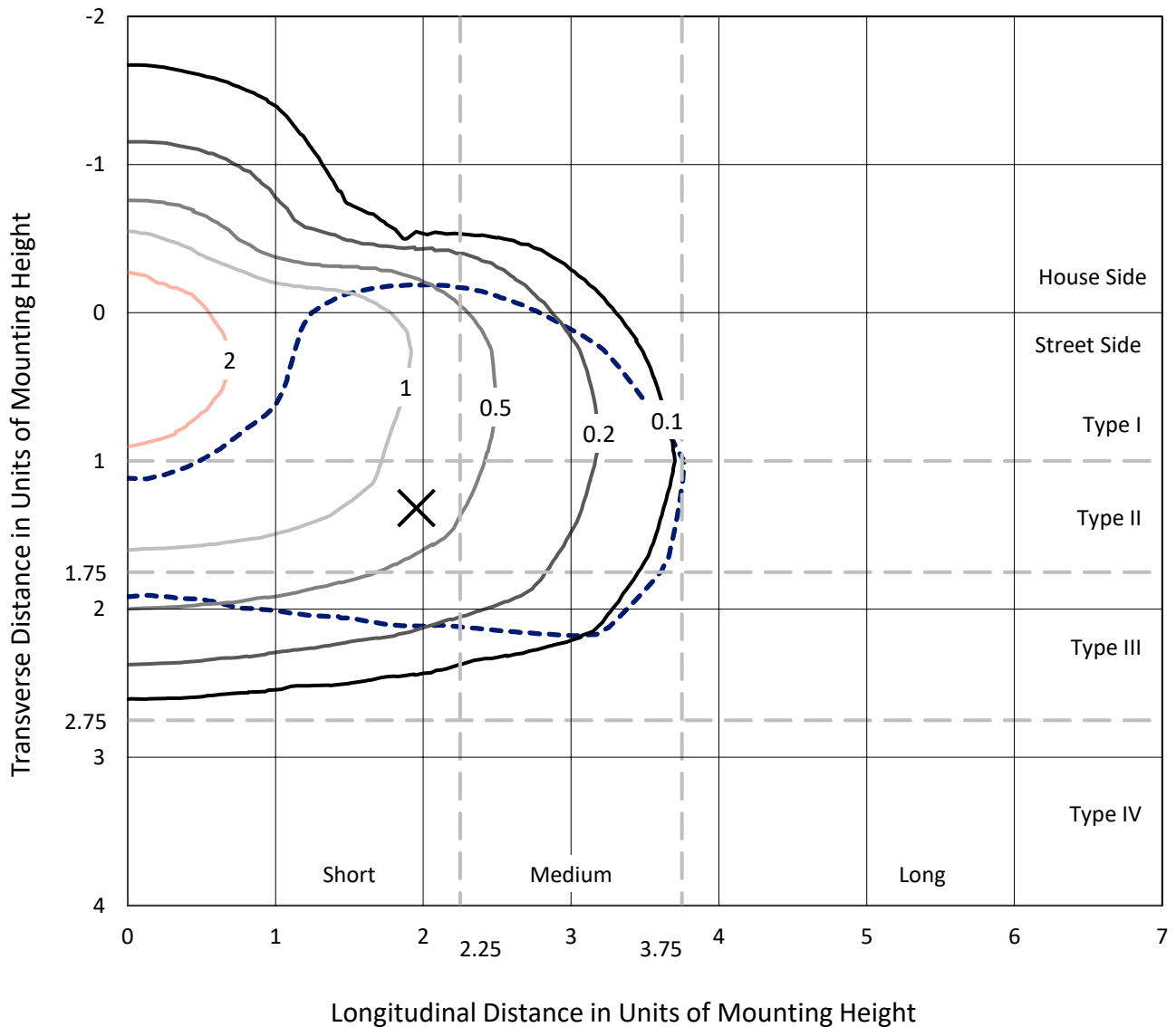
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

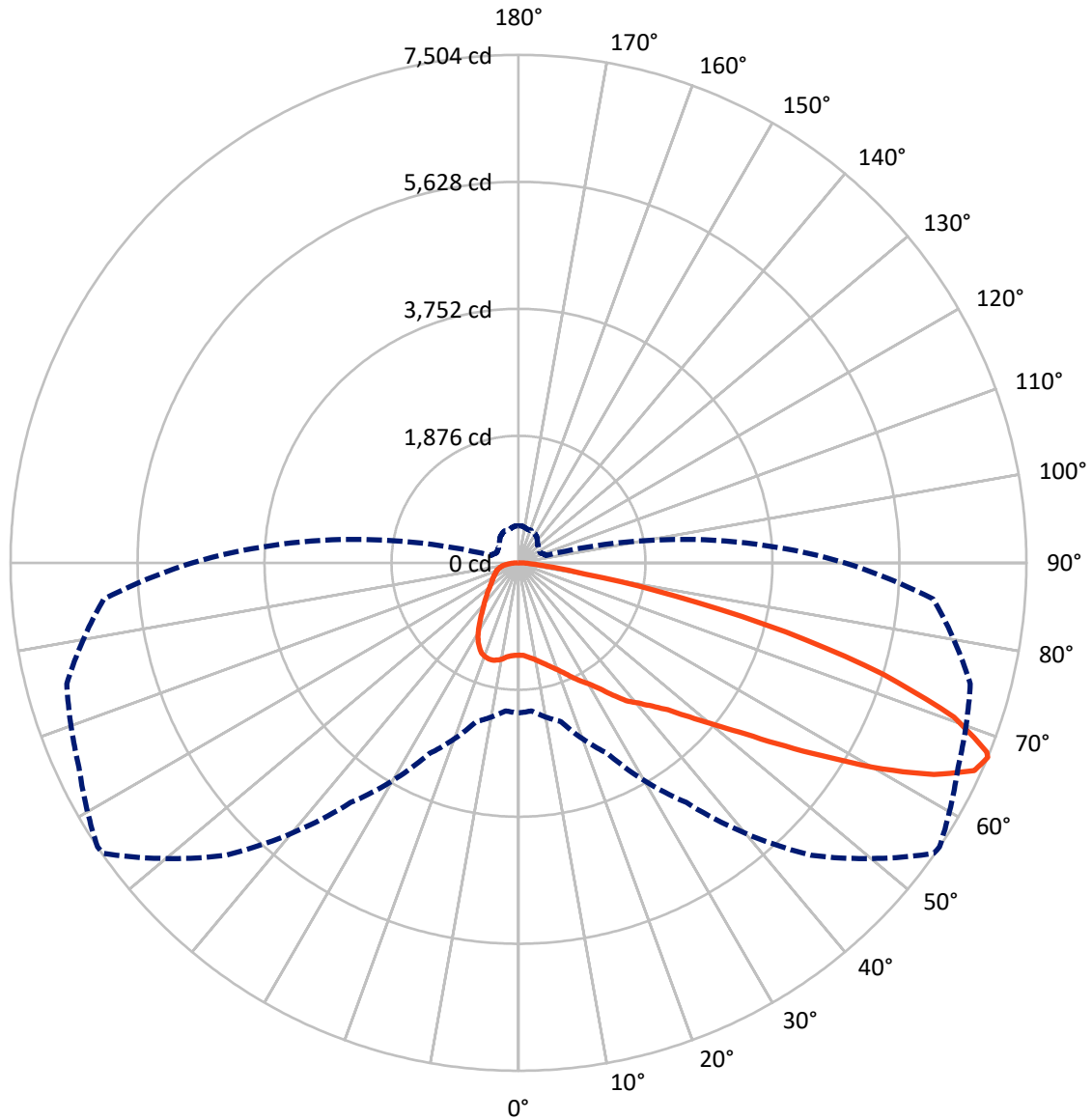
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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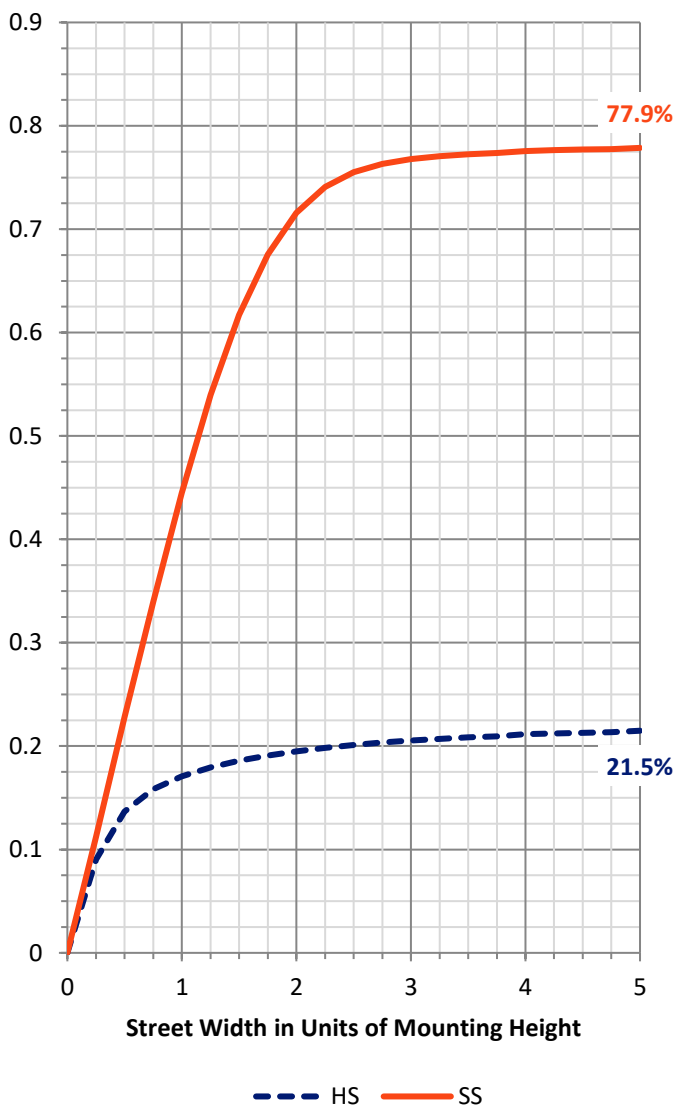
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2417.7	0.0	2417.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8633.3	0.0	8633.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	11051.0	0.0	11051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	1.2
10°-20°	430.5	3.9
20°-30°	749.2	6.8
30°-40°	1098.5	9.9
40°-50°	1607.2	14.5
50°-60°	2511.9	22.7
60°-70°	2985.5	27.0
70°-80°	1359.7	12.3
80°-90°	174.4	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°	11051.0	100.0
0°-180°	11051.0	100.0

Coefficient of Utilization

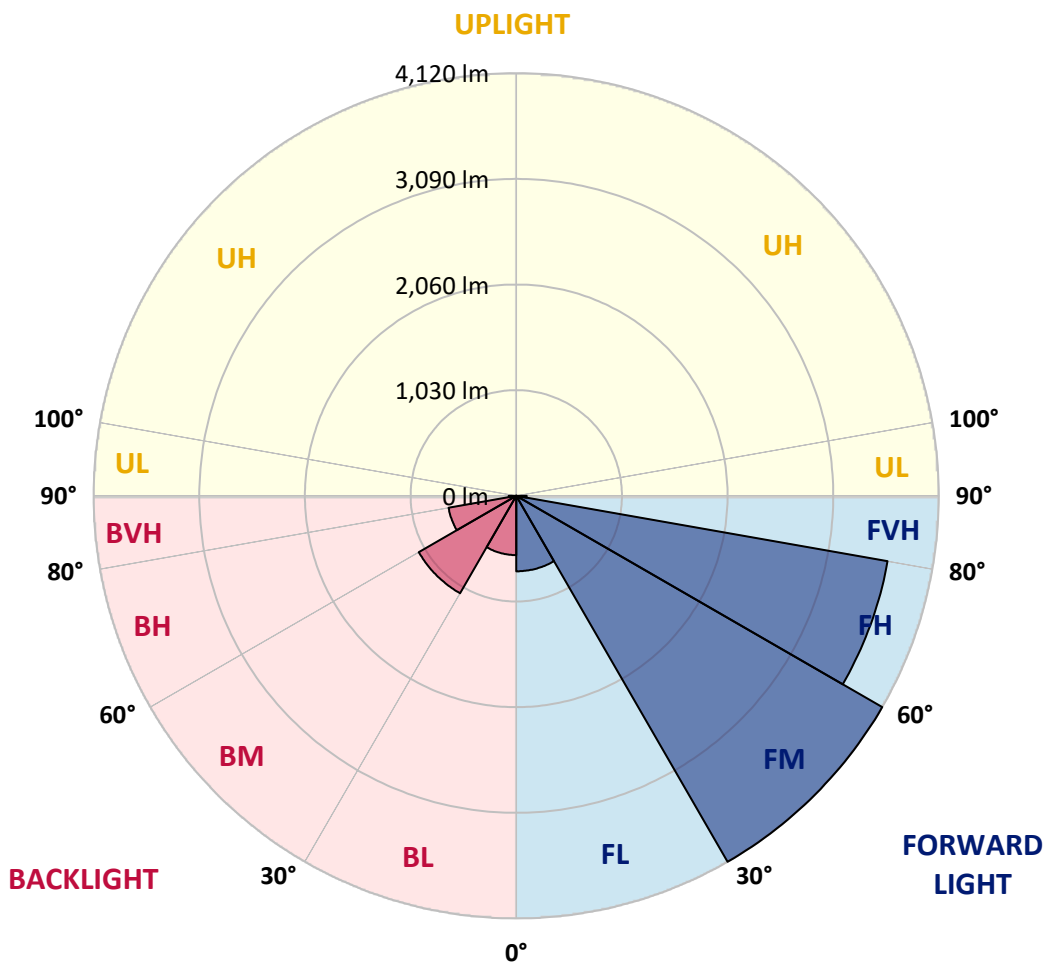


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.1	6.7			
FM (30°-60°)	4120.1	37.3			
FH (60°-80°)	3675.4	33.3			G2/5000
FVH (80°-90°)	101.7	0.9			G2/225
BL (0°-30°)	577.8	5.2	B2/1000		
BM (30°-60°)	1097.5	9.9	B2/2500		
BH (60°-80°)	669.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	72.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4
2.5°	1385.3	1379.3	1376.3	1379.3	1376.3	1370.3	1373.3	1370.3	1367.4	1364.4	1364.4
5°	1403.3	1397.3	1394.3	1397.3	1400.3	1394.3	1394.3	1394.3	1385.3	1382.3	1376.3
7.5°	1415.2	1406.3	1406.3	1412.2	1418.2	1421.2	1427.2	1424.2	1415.2	1409.2	1397.3
10°	1454.1	1442.2	1442.2	1442.2	1448.1	1454.1	1460.1	1463.1	1460.1	1457.1	1448.1
12.5°	1514.0	1502.0	1502.0	1502.0	1502.0	1499.0	1508.0	1511.0	1517.0	1517.0	1502.0
15°	1594.8	1579.8	1573.8	1561.8	1558.8	1552.9	1564.8	1564.8	1573.8	1576.8	1561.8
17.5°	1672.5	1654.6	1648.6	1636.6	1624.7	1609.7	1621.7	1624.7	1642.6	1645.6	1621.7
20°	1753.3	1747.3	1738.4	1720.4	1699.5	1684.5	1696.5	1693.5	1708.4	1714.4	1684.5
22.5°	1858.1	1843.1	1837.1	1813.2	1789.2	1774.3	1774.3	1780.3	1795.2	1795.2	1750.3
25°	1983.7	1962.8	1947.8	1920.9	1891.0	1873.0	1876.0	1882.0	1902.9	1888.0	1819.2
27.5°	2139.3	2118.4	2097.4	2043.6	2013.6	1977.7	1974.7	1980.7	2013.6	1974.7	1885.0
30°	2285.9	2276.9	2259.0	2217.1	2169.2	2109.4	2082.5	2085.4	2109.4	2055.5	1941.8
32.5°	2411.6	2399.6	2390.6	2360.7	2327.8	2256.0	2220.1	2223.1	2220.1	2154.3	2010.6
35°	2561.2	2543.2	2537.2	2510.3	2468.4	2420.6	2405.6	2399.6	2381.7	2291.9	2100.4
37.5°	2704.8	2686.8	2677.9	2662.9	2630.0	2588.1	2588.1	2585.1	2549.2	2423.5	2190.2
40°	2875.3	2854.4	2827.5	2818.5	2791.6	2761.6	2737.7	2722.7	2659.9	2546.2	2363.7
42.5°	3081.8	3069.8	3054.9	3016.0	2974.1	2968.1	2899.3	2893.3	2848.4	2782.6	2609.0
45°	3378.0	3354.1	3333.1	3321.2	3270.3	3216.4	3120.7	3096.8	3096.8	3081.8	2896.3
47.5°	3677.2	3635.3	3665.2	3656.3	3644.3	3584.5	3398.9	3401.9	3396.0	3434.8	3318.2
50°	3877.7	3853.7	3937.5	3976.4	4060.2	4060.2	3793.9	3761.0	3784.9	3898.6	3749.0
52.5°	4033.3	4018.3	4114.0	4266.6	4515.0	4538.9	4263.6	4194.8	4227.7	4389.3	4329.5
55°	4158.9	4144.0	4254.7	4521.0	4918.9	5065.5	4805.2	4775.3	4709.5	4883.0	4900.9
57.5°	4233.7	4200.8	4368.4	4724.4	5248.0	5586.1	5439.5	5430.5	5277.9	5439.5	5520.3
60°	4120.0	4099.1	4329.5	4808.2	5514.3	6076.8	6184.5	6184.5	5912.3	5999.0	6097.8
62.5°	3752.0	3725.1	3967.4	4613.7	5547.2	6477.7	6923.6	6887.7	6522.6	6519.6	6432.9
65°	3051.9	3019.0	3291.2	3973.4	5131.3	6525.6	7423.2	7402.3	6980.4	6860.7	6453.8
67°	2217.1	2196.1	2429.5	3105.7	4323.5	6109.7	7486.1	7504.0	7162.9	6908.6	6151.6
67.5°	1989.7	1986.7	2181.2	2851.4	4087.1	5957.1	7444.2	7462.1	7159.9	6869.7	6031.9
70°	927.5	969.4	1151.9	1633.6	2755.7	4691.5	6756.0	6824.8	6776.9	6420.9	5080.5
72.5°	430.9	448.8	529.6	789.9	1481.1	3024.9	5475.4	5640.0	5849.4	5508.3	4024.3
75°	266.3	272.3	317.2	409.9	697.1	1454.1	3898.6	4078.1	4395.3	4144.0	2573.1
77.5°	209.4	212.4	242.4	293.2	406.9	625.3	2139.3	2363.7	2776.6	2450.5	1295.5
80°	155.6	161.6	185.5	227.4	287.2	320.1	909.6	993.4	1340.4	1026.3	538.6
82.5°	113.7	119.7	143.6	164.6	200.5	203.5	371.0	392.0	574.5	415.9	233.4
85°	95.7	95.7	110.7	122.7	134.6	113.7	182.5	179.5	221.4	188.5	92.8
87.5°	44.9	47.9	104.7	77.8	65.8	47.9	53.9	56.8	68.8	74.8	35.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4
2.5°	1361.4	1361.4	1361.4	1364.4	1367.4	1367.4	1370.3	1370.3	1373.3	1376.3	1382.3
5°	1373.3	1373.3	1370.3	1373.3	1379.3	1382.3	1388.3	1394.3	1400.3	1406.3	1409.2
7.5°	1397.3	1394.3	1394.3	1394.3	1400.3	1406.3	1415.2	1421.2	1430.2	1433.2	1439.2
10°	1442.2	1436.2	1436.2	1439.2	1442.2	1433.2	1430.2	1427.2	1436.2	1442.2	1448.1
12.5°	1496.0	1490.0	1487.0	1478.1	1466.1	1448.1	1433.2	1421.2	1424.2	1430.2	1439.2
15°	1552.9	1540.9	1534.9	1514.0	1484.0	1445.2	1421.2	1406.3	1406.3	1406.3	1415.2
17.5°	1612.7	1600.7	1576.8	1537.9	1481.1	1427.2	1397.3	1370.3	1358.4	1355.4	1361.4
20°	1669.6	1651.6	1612.7	1552.9	1463.1	1391.3	1352.4	1307.5	1289.6	1277.6	1283.6
22.5°	1723.4	1699.5	1645.6	1552.9	1433.2	1337.4	1268.6	1208.8	1178.9	1172.9	1175.9
25°	1780.3	1750.3	1678.5	1534.9	1367.4	1256.7	1160.9	1098.1	1059.2	1053.2	1062.2
27.5°	1837.1	1792.2	1705.5	1487.0	1292.6	1145.9	1044.2	984.4	963.4	951.5	954.5
30°	1885.0	1843.1	1732.4	1421.2	1190.8	1017.3	924.5	897.6	882.6	876.7	876.7
32.5°	1947.8	1908.9	1750.3	1343.4	1071.1	900.6	840.8	819.8	807.8	792.9	795.9
35°	2025.6	1989.7	1741.4	1244.7	957.4	822.8	774.9	745.0	718.1	697.1	694.2
37.5°	2130.3	2103.4	1696.5	1125.0	852.7	766.0	718.1	679.2	640.3	607.4	601.4
40°	2303.9	2241.0	1630.7	993.4	780.9	721.1	664.2	616.4	568.5	532.6	523.6
42.5°	2525.3	2393.6	1540.9	858.7	721.1	673.2	616.4	553.5	508.6	475.7	475.7
45°	2782.6	2558.2	1433.2	757.0	658.2	625.3	556.5	502.7	475.7	454.8	451.8
47.5°	3087.8	2722.7	1295.5	676.2	607.4	583.4	514.6	481.7	463.8	445.8	442.8
50°	3497.7	2944.2	1193.8	607.4	556.5	535.6	502.7	475.7	457.8	445.8	442.8
52.5°	3967.4	3228.4	1122.0	553.5	514.6	505.7	499.7	478.7	460.8	451.8	448.8
55°	4476.1	3578.5	1053.2	508.6	481.7	493.7	505.7	484.7	472.7	460.8	454.8
57.5°	4954.8	3874.7	942.5	469.7	457.8	478.7	502.7	487.7	472.7	463.8	460.8
60°	5280.9	4024.3	789.9	433.8	433.8	457.8	493.7	472.7	457.8	460.8	460.8
62.5°	5385.7	3967.4	625.3	400.9	409.9	433.8	466.8	454.8	448.8	463.8	463.8
65°	5230.1	3737.0	499.7	374.0	386.0	403.9	451.8	463.8	481.7	514.6	517.6
67°	4823.2	3366.0	421.9	353.1	365.0	394.9	469.7	511.6	511.6	547.5	547.5
67.5°	4703.5	3240.4	409.9	347.1	362.0	394.9	478.7	523.6	511.6	553.5	553.5
70°	3823.8	2549.2	347.1	329.1	350.1	415.9	517.6	526.6	499.7	538.6	535.6
72.5°	2836.4	1843.1	317.2	311.2	326.1	392.0	514.6	505.7	466.8	478.7	469.7
75°	1753.3	1068.2	293.2	287.2	296.2	347.1	475.7	460.8	415.9	406.9	397.9
77.5°	846.7	541.6	251.3	260.3	269.3	302.2	418.9	403.9	365.0	344.1	341.1
80°	368.0	278.3	215.4	230.4	233.4	257.3	347.1	329.1	293.2	260.3	260.3
82.5°	182.5	155.6	170.5	191.5	185.5	206.5	272.3	242.4	215.4	179.5	173.5
85°	83.8	89.8	125.7	143.6	125.7	128.7	185.5	170.5	134.6	101.7	104.7
87.5°	29.9	41.9	71.8	86.8	62.8	59.8	98.7	71.8	41.9	12.0	15.0
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)