

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: P572863

Luminaire Tested: **ARCH-S-PA2-120-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11352 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4
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

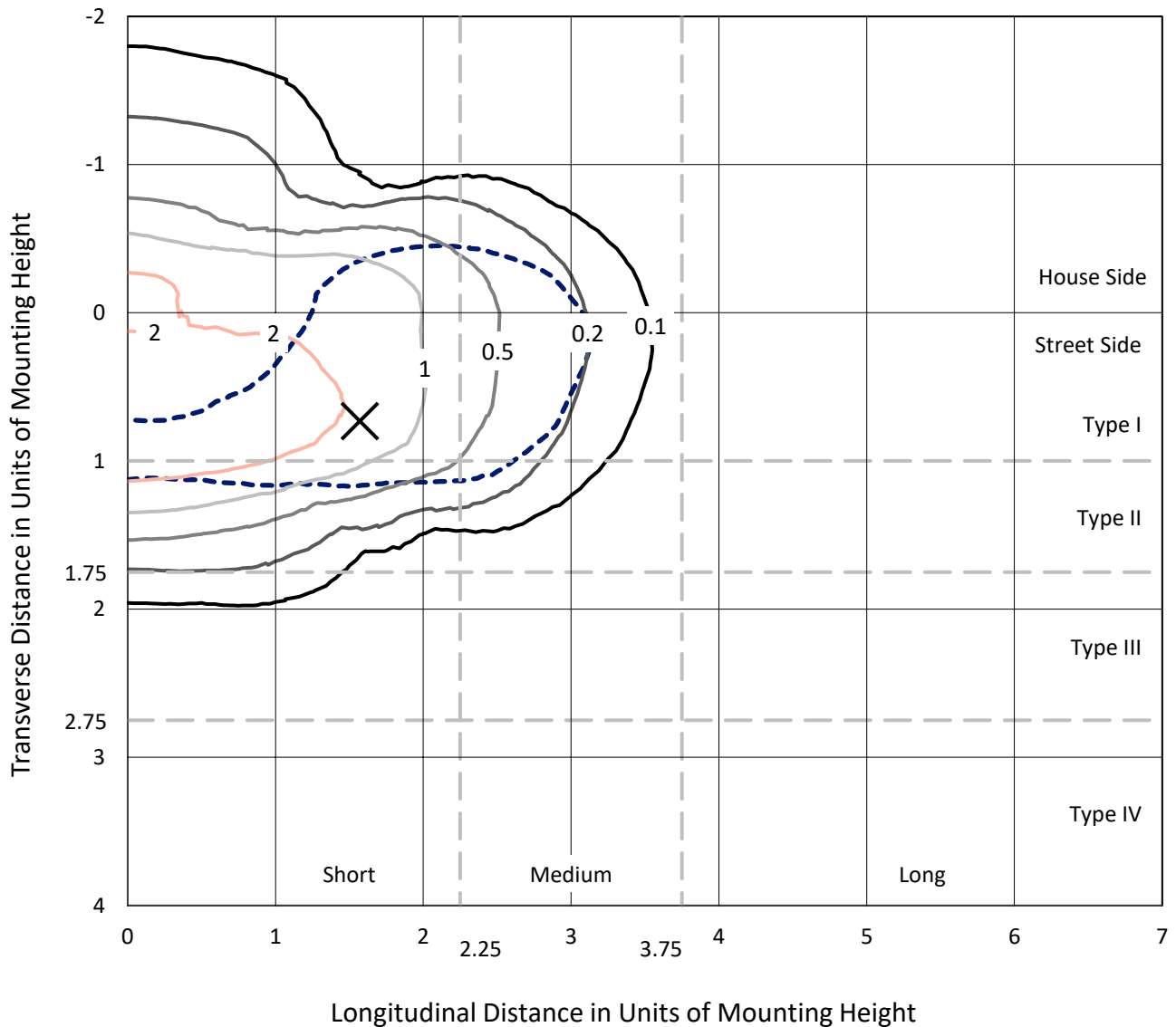




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Iso-Footcandle Lines of Horizontal Illumination

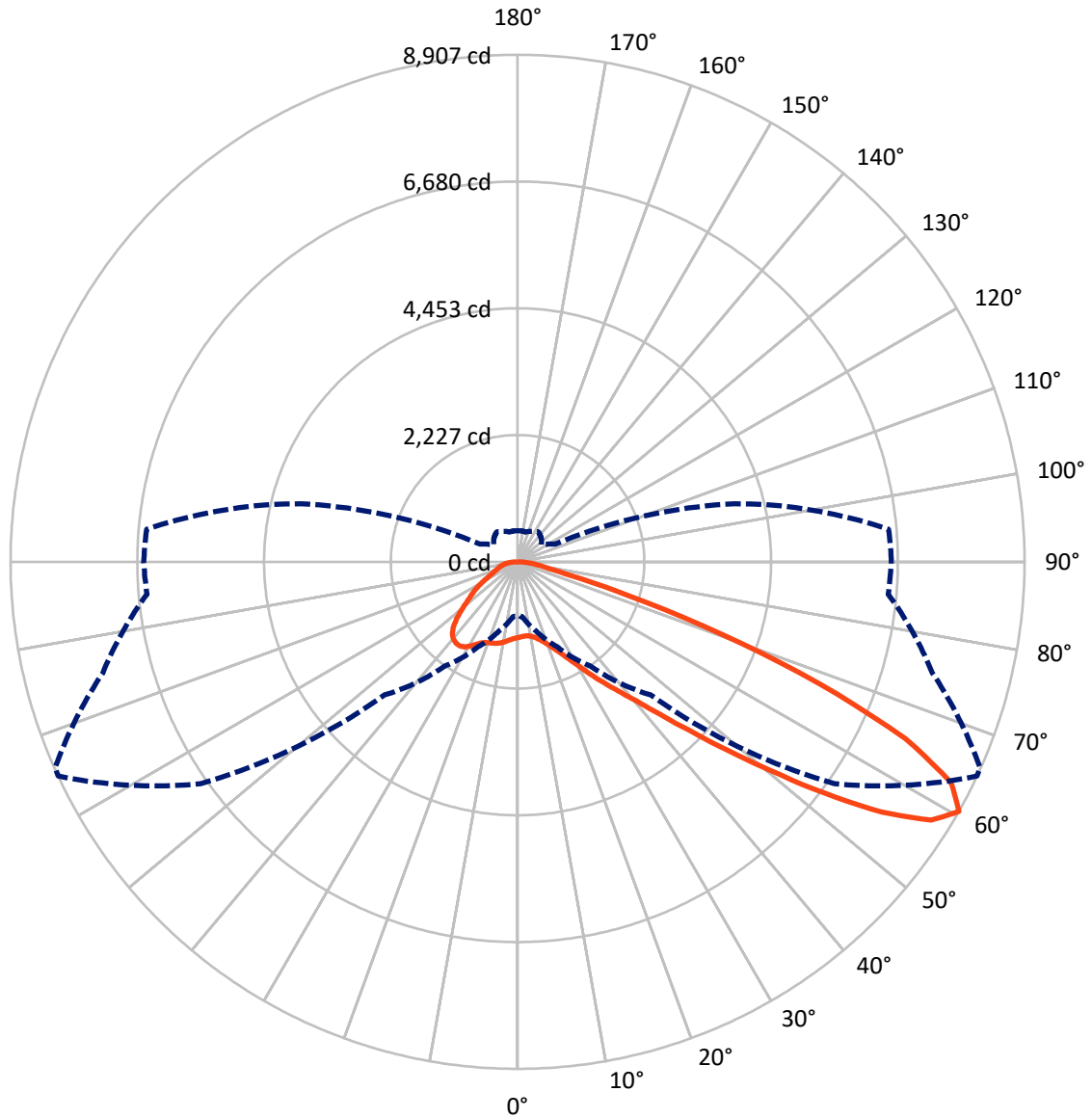
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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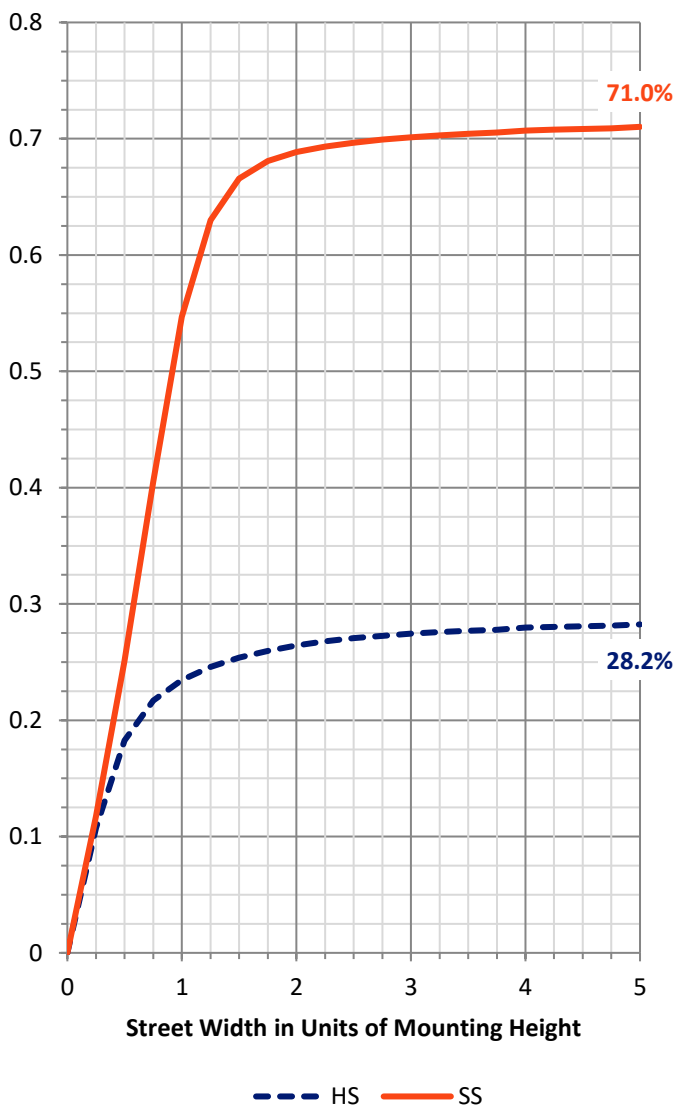
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3249.8	0.0	3249.8
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8102.2	0.0	8102.2
	% Fixture	71.4	0.0	71.4
Total	Lumens	11352.0	0.0	11352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	1.1
10°-20°	414.2	3.6
20°-30°	793.9	7.0
30°-40°	1378.9	12.1
40°-50°	2338.6	20.6
50°-60°	2912.0	25.7
60°-70°	2346.5	20.7
70°-80°	888.6	7.8
80°-90°	150.7	1.3
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°	11352.0	100.0
0°-180°	11352.0	100.0

Coefficient of Utilization

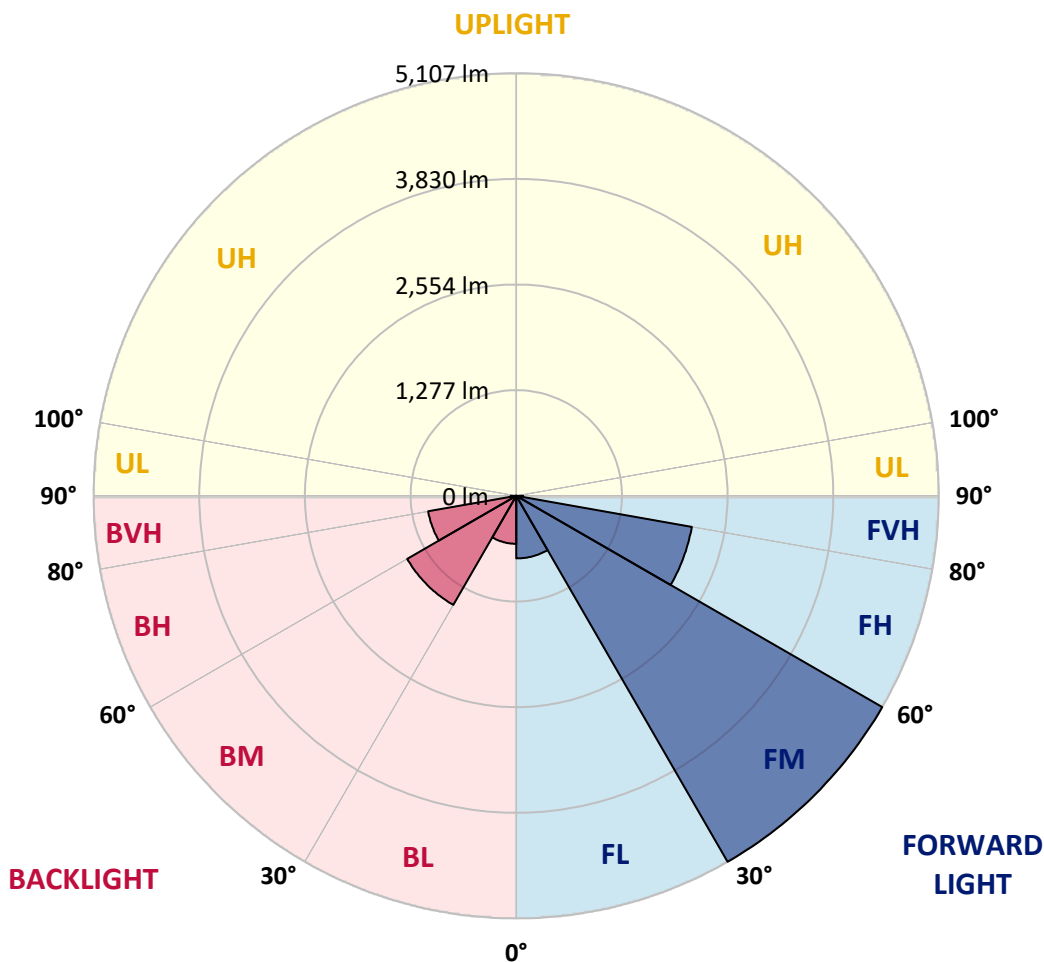


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.8	6.7			
FM (30°-60°)	5107.3	45.0			
FH (60°-80°)	2154.6	19.0			G2/5000
FVH (80°-90°)	83.6	0.7			G1/100
BL (0°-30°)	580.0	5.1	B2/1000		
BM (30°-60°)	1522.1	13.4	B2/2500		
BH (60°-80°)	1080.5	9.5	B3/2500		G3/2500
BVH (80°-90°)	67.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1300.8	1300.8	1300.8	1303.9	1307.0	1310.1	1316.4	1316.4	1316.4	1319.5	1325.7
5°	1275.9	1272.8	1275.9	1279.0	1285.3	1291.5	1303.9	1310.1	1310.1	1322.6	1335.0
7.5°	1279.0	1272.8	1272.8	1275.9	1282.1	1288.4	1300.8	1310.1	1313.3	1328.8	1350.6
10°	1310.1	1300.8	1300.8	1303.9	1303.9	1310.1	1319.5	1331.9	1335.0	1350.6	1372.4
12.5°	1375.5	1366.2	1363.1	1353.7	1344.4	1350.6	1359.9	1363.1	1366.2	1375.5	1397.3
15°	1512.4	1496.9	1472.0	1453.3	1428.4	1412.8	1409.7	1412.8	1412.8	1416.0	1428.4
17.5°	1708.5	1689.8	1652.5	1612.0	1552.9	1503.1	1487.5	1475.1	1475.1	1465.7	1465.7
20°	1948.1	1920.1	1876.5	1817.4	1730.3	1640.0	1587.1	1559.1	1549.8	1534.2	1512.4
22.5°	2225.1	2206.4	2150.4	2060.1	1929.4	1808.1	1720.9	1658.7	1658.7	1621.3	1574.7
25°	2551.8	2517.6	2452.2	2346.4	2169.1	1994.8	1876.5	1786.3	1776.9	1717.8	1643.1
27.5°	2869.3	2847.5	2766.6	2626.5	2414.9	2212.6	2047.7	1941.9	1926.3	1833.0	1717.8
30°	3255.1	3230.2	3108.9	2912.8	2685.6	2455.4	2262.4	2125.5	2109.9	1982.3	1820.5
32.5°	3734.4	3650.4	3501.0	3276.9	2984.4	2726.1	2505.2	2358.9	2340.2	2194.0	2001.0
35°	4316.3	4244.8	3986.5	3749.9	3401.4	3062.2	2797.7	2604.7	2579.8	2405.6	2162.8
37.5°	4727.1	4692.9	4515.5	4328.8	3930.4	3473.0	3149.3	2881.7	2856.8	2626.5	2312.2
40°	4985.4	4951.2	4901.4	4848.5	4627.5	4110.9	3572.6	3208.5	3168.0	2950.2	2611.0
42.5°	5119.2	5091.2	5100.5	5206.4	5268.6	5187.7	4176.3	3644.1	3616.1	3351.6	2975.1
45°	5041.4	5022.7	5113.0	5393.1	5698.1	6295.6	4951.2	4216.7	4142.1	3827.7	3417.0
47.5°	4668.0	4612.0	4823.6	5299.7	5953.2	6824.6	5884.8	4923.2	4842.3	4391.0	3865.1
50°	3899.3	3883.8	4173.2	4776.9	5853.6	7033.1	6883.7	5757.2	5698.1	4997.9	4363.0
52.5°	3183.6	3177.3	3401.4	3955.3	5218.8	6886.8	7608.8	6749.9	6572.5	5607.8	4904.5
55°	2470.9	2467.8	2667.0	3080.9	4163.8	6199.1	7951.1	7761.3	7630.6	6273.8	5461.5
57.5°	1689.8	1668.0	1926.3	2240.6	3127.5	4910.7	7727.1	8561.1	8480.2	6980.2	6052.8
60°	939.8	970.9	1257.2	1646.2	2237.5	3308.0	6793.5	8906.5	8894.1	7543.5	6535.2
62.5°	666.0	678.4	799.8	1170.1	1472.0	1895.2	5240.6	8548.6	8648.2	7854.7	6809.0
65°	553.9	560.2	619.3	865.1	1076.7	1095.4	3267.6	7487.4	7618.1	7758.2	6868.2
67.5°	522.8	525.9	557.0	638.0	843.3	793.6	1459.5	5716.7	5993.7	6980.2	6482.3
70°	476.1	479.2	525.9	563.3	681.5	625.5	750.0	3796.6	4170.1	5517.6	5589.1
72.5°	407.7	417.0	454.4	529.0	553.9	519.7	578.8	2029.0	2399.3	3690.8	4316.3
75°	351.7	357.9	385.9	448.1	519.7	413.9	491.7	924.3	1083.0	2165.9	2732.3
77.5°	283.2	286.3	326.8	367.2	435.7	336.1	382.8	553.9	581.9	1058.1	1235.5
80°	214.7	214.7	242.7	292.5	323.6	323.6	280.1	385.9	401.4	504.1	488.6
82.5°	164.9	161.8	183.6	205.4	233.4	270.7	211.6	255.2	261.4	305.0	261.4
85°	108.9	108.9	121.4	140.0	155.6	149.4	164.9	149.4	155.6	189.8	143.2
87.5°	46.7	46.7	65.4	62.2	68.5	71.6	80.9	71.6	71.6	87.1	65.4
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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1328.8	1331.9	1338.2	1341.3	1350.6	1353.7	1353.7	1359.9	1359.9	1366.2	1366.2
5°	1338.2	1347.5	1356.8	1366.2	1375.5	1378.6	1384.8	1387.9	1387.9	1394.2	1391.1
7.5°	1356.8	1366.2	1384.8	1394.2	1406.6	1412.8	1409.7	1412.8	1409.7	1412.8	1412.8
10°	1381.7	1394.2	1416.0	1428.4	1437.7	1440.9	1431.5	1422.2	1409.7	1409.7	1409.7
12.5°	1409.7	1419.1	1447.1	1456.4	1462.6	1453.3	1428.4	1409.7	1400.4	1403.5	1400.4
15°	1437.7	1447.1	1468.9	1478.2	1478.2	1450.2	1428.4	1422.2	1419.1	1422.2	1422.2
17.5°	1465.7	1475.1	1493.8	1493.8	1484.4	1462.6	1440.9	1419.1	1403.5	1394.2	1394.2
20°	1503.1	1503.1	1509.3	1509.3	1506.2	1472.0	1419.1	1366.2	1335.0	1316.4	1313.3
22.5°	1552.9	1540.4	1528.0	1528.0	1540.4	1450.2	1347.5	1266.6	1216.8	1210.6	1198.1
25°	1605.8	1577.8	1546.7	1568.4	1546.7	1394.2	1247.9	1139.0	1079.9	1058.1	1064.3
27.5°	1661.8	1618.2	1571.6	1633.8	1515.5	1285.3	1107.9	986.5	930.5	914.9	914.9
30°	1739.6	1674.2	1605.8	1702.3	1456.4	1160.8	942.9	855.8	824.7	812.2	809.1
32.5°	1889.0	1789.4	1689.8	1764.5	1391.1	998.9	830.9	778.0	740.7	728.2	737.5
35°	2022.8	1882.8	1817.4	1792.5	1288.4	868.2	762.4	715.8	684.6	669.1	669.1
37.5°	2144.2	2010.3	1960.6	1792.5	1154.5	787.3	718.9	681.5	641.1	628.6	628.6
40°	2408.7	2231.3	2144.2	1767.6	989.6	746.9	697.1	653.5	619.3	606.8	603.7
42.5°	2772.8	2533.2	2334.0	1711.6	849.6	728.2	684.6	634.8	606.8	597.5	594.4
45°	3158.7	2947.1	2514.5	1612.0	759.3	709.5	681.5	628.6	594.4	585.1	581.9
47.5°	3625.5	3407.6	2723.0	1459.5	697.1	697.1	678.4	619.3	588.2	578.8	578.8
50°	4142.1	3961.6	2987.5	1285.3	650.4	687.7	672.2	619.3	585.1	575.7	572.6
52.5°	4671.1	4587.1	3264.5	1114.1	603.7	675.3	669.1	619.3	578.8	569.5	569.5
55°	5343.3	5274.8	3585.0	986.5	566.4	650.4	669.1	613.1	569.5	563.3	563.3
57.5°	6003.0	5978.1	3834.0	874.5	538.4	619.3	659.7	603.7	560.2	557.0	557.0
60°	6566.3	6541.4	3939.8	734.4	510.4	588.2	641.1	588.2	544.6	547.7	547.7
62.5°	6914.8	6771.7	3862.0	606.8	482.4	560.2	619.3	569.5	529.0	538.4	535.3
65°	6977.1	6644.1	3560.1	507.3	451.2	529.0	594.4	547.7	507.3	529.0	525.9
67.5°	6519.6	5965.7	2993.7	441.9	420.1	494.8	566.4	516.6	482.4	513.5	504.1
70°	5530.0	4845.4	2215.7	392.1	389.0	454.4	529.0	479.2	448.1	463.7	451.2
72.5°	4117.2	3497.9	1434.6	354.8	354.8	407.7	476.1	432.6	401.4	404.6	392.1
75°	2567.4	2150.4	815.3	320.5	320.5	361.0	423.2	379.7	357.9	345.4	361.0
77.5°	1167.0	946.0	429.5	286.3	289.4	308.1	364.1	323.6	298.8	280.1	289.4
80°	432.6	385.9	280.1	245.8	252.1	255.2	292.5	258.3	236.5	224.1	217.8
82.5°	224.1	208.5	189.8	196.1	205.4	196.1	227.2	192.9	168.0	158.7	133.8
85°	112.0	108.9	115.1	130.7	143.2	121.4	136.9	124.5	102.7	74.7	74.7
87.5°	43.6	46.7	43.6	59.1	65.4	56.0	62.2	43.6	31.1	15.6	12.4
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)