

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: P572672

Luminaire Tested: **ARCH-S-PA2-100-740-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-100-740-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13956 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

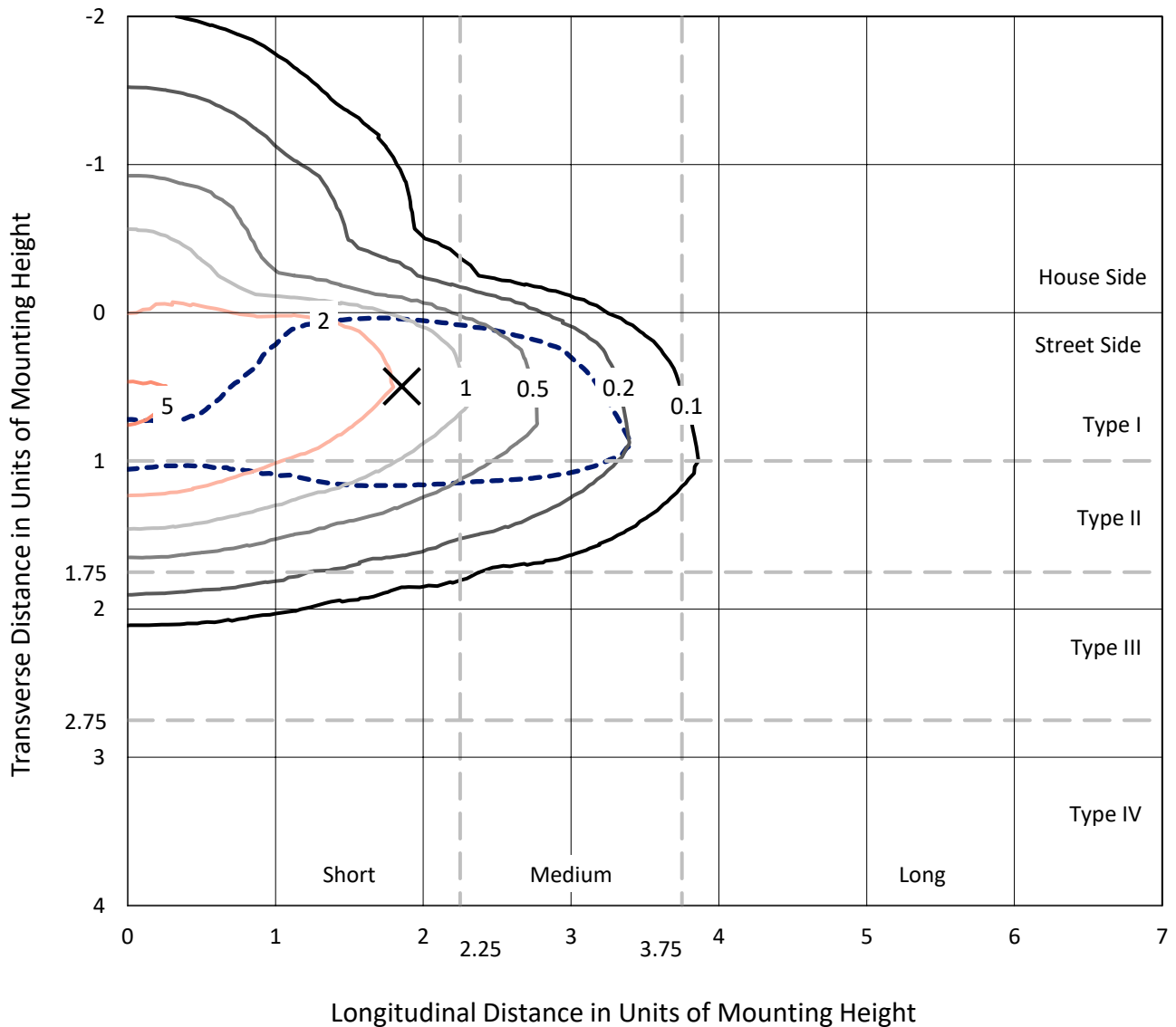
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

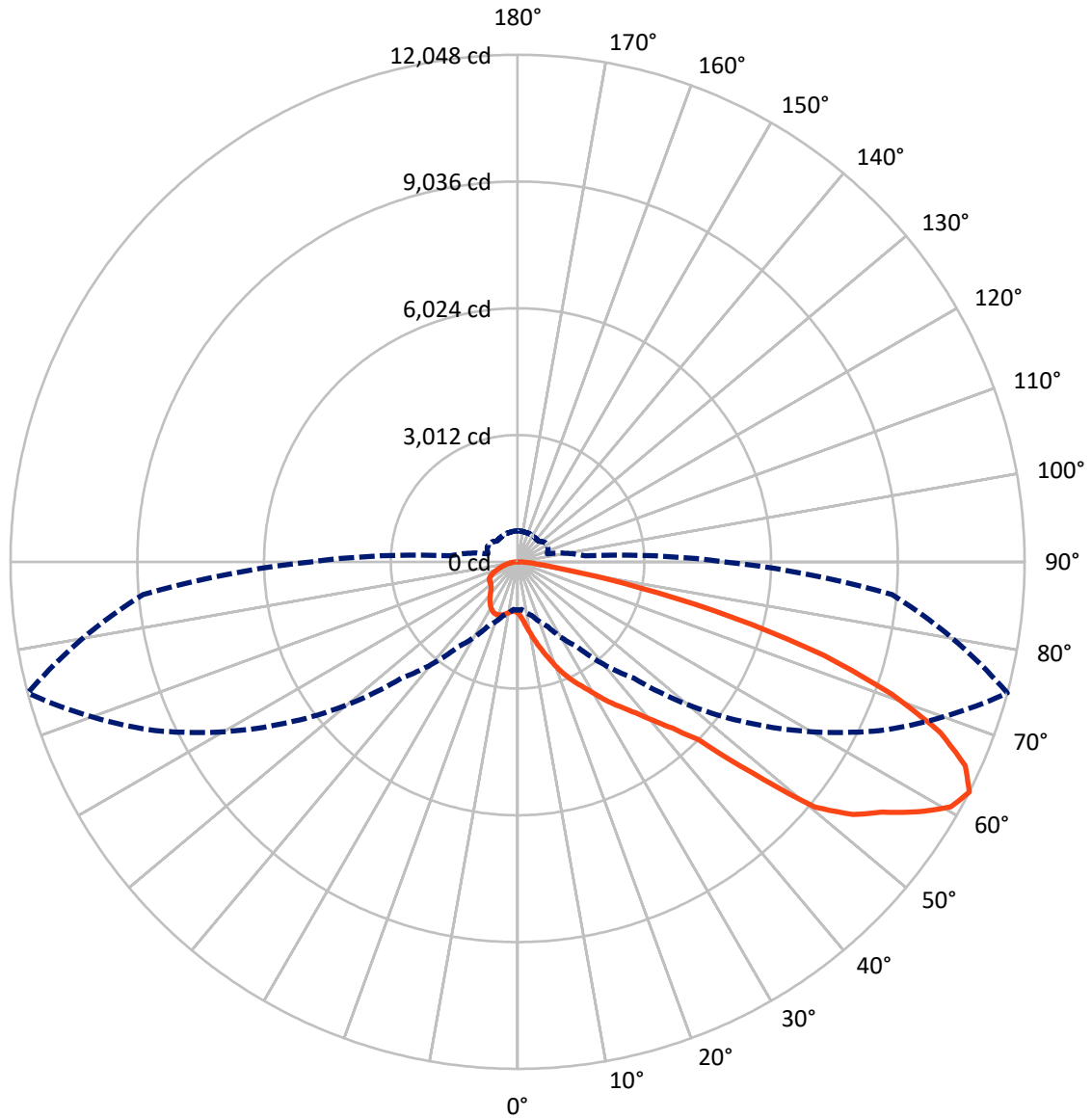
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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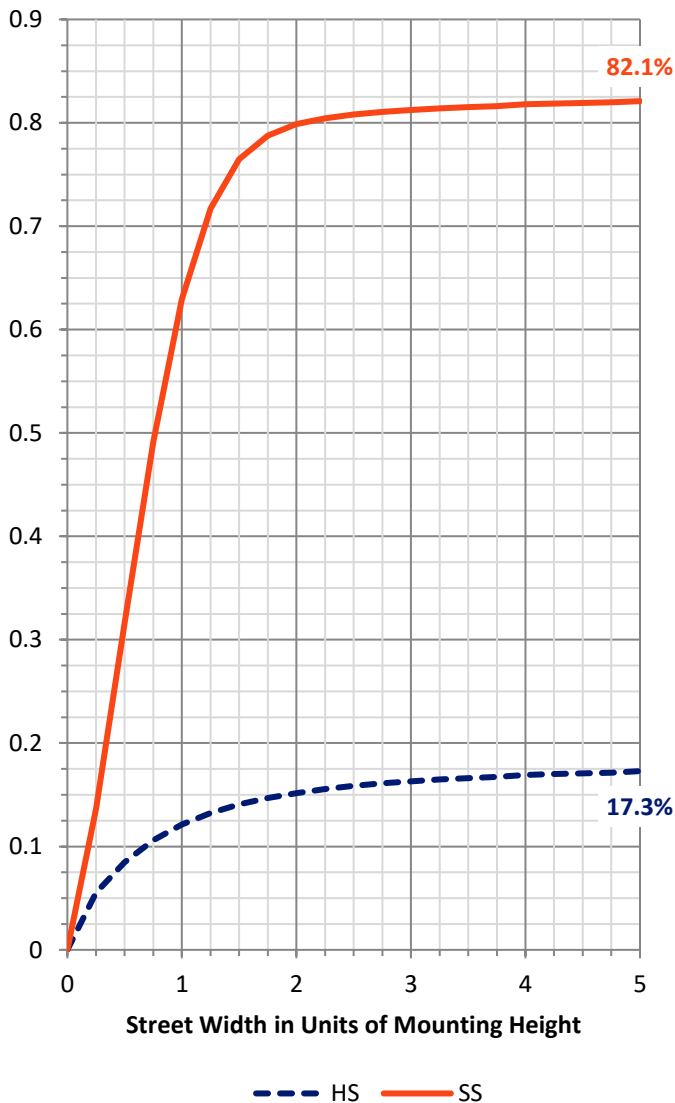
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2461.4	0.0	2461.4
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	11494.5	0.0	11494.5
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	13956.0	0.0	13956.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	1.0
10°-20°	577.5	4.1
20°-30°	1142.5	8.2
30°-40°	1904.4	13.6
40°-50°	2810.2	20.1
50°-60°	3378.1	24.2
60°-70°	2625.4	18.8
70°-80°	1161.5	8.3
80°-90°	210.3	1.5
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°	13956.0	100.0
0°-180°	13956.0	100.0

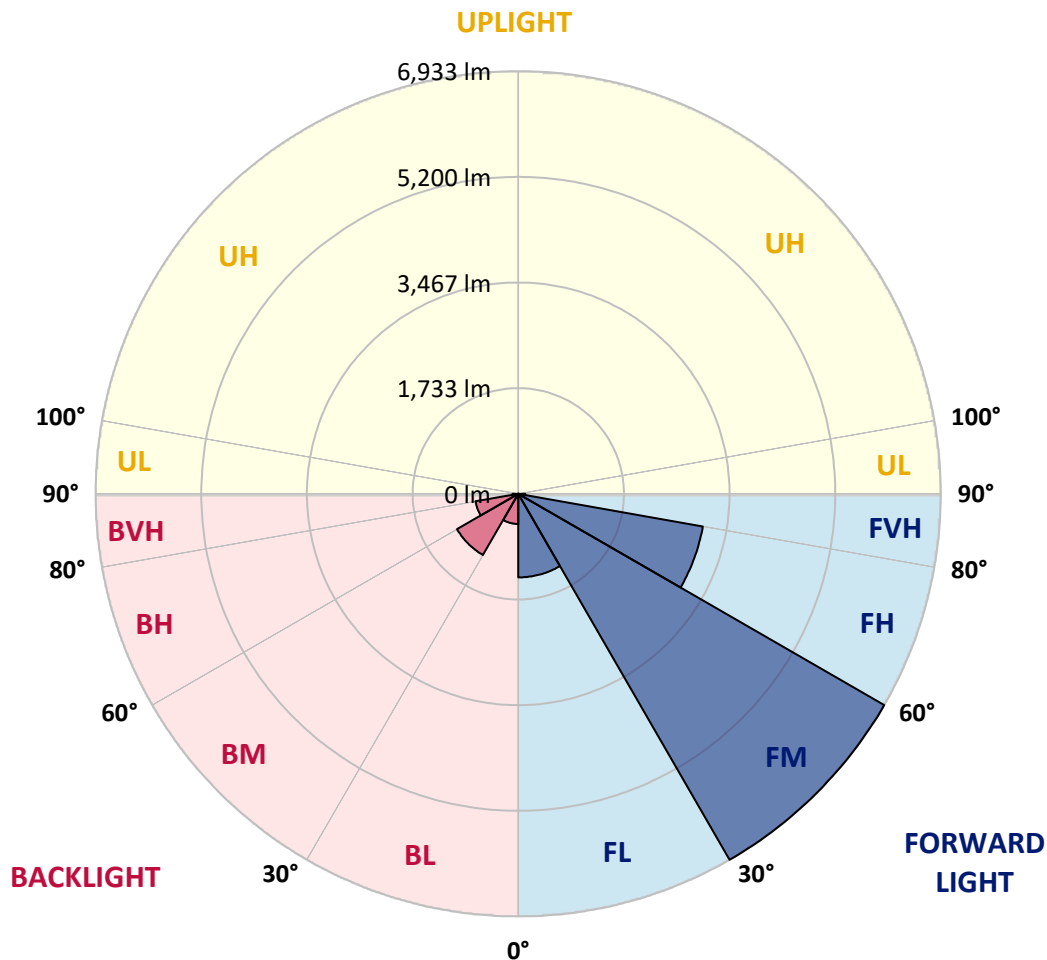


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.8	9.8			
FM (30°-60°)	6933.3	49.7			
FH (60°-80°)	3074.8	22.0			G2/5000
FVH (80°-90°)	115.6	0.8			G2/225
BL (0°-30°)	495.3	3.5	B1/500		
BM (30°-60°)	1159.3	8.3	B2/2500		
BH (60°-80°)	712.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	94.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5
2.5°	1555.5	1510.3	1510.3	1461.3	1465.1	1423.6	1378.4	1333.3	1284.3	1246.6	1227.8
5°	2033.8	1999.9	1988.6	1932.1	1841.7	1740.0	1630.8	1517.8	1401.0	1310.7	1265.5
7.5°	2482.0	2455.6	2440.5	2376.5	2252.2	2143.0	1969.7	1762.6	1563.0	1393.5	1325.7
10°	2813.4	2794.6	2764.4	2734.3	2643.9	2549.8	2335.1	2041.3	1747.5	1495.2	1393.5
12.5°	3054.4	3028.1	3028.1	3024.3	2964.0	2877.4	2677.8	2361.4	1962.2	1608.2	1468.8
15°	3216.4	3212.6	3223.9	3246.5	3231.4	3174.9	2975.3	2655.2	2180.7	1736.2	1555.5
17.5°	3336.9	3321.8	3344.4	3404.7	3449.9	3427.3	3261.6	2937.7	2421.7	1875.6	1649.6
20°	3468.7	3438.6	3468.7	3544.0	3600.5	3634.4	3555.3	3208.8	2681.6	2026.2	1740.0
22.5°	3721.1	3717.3	3702.2	3724.8	3762.5	3822.7	3777.5	3483.8	2933.9	2176.9	1845.5
25°	4173.0	4131.6	4090.1	4041.2	3999.8	4018.6	3980.9	3739.9	3163.7	2342.6	1935.9
27.5°	4677.7	4632.5	4557.2	4436.6	4323.7	4255.9	4176.8	3962.1	3385.9	2493.3	2022.5
30°	5140.9	5125.9	5012.9	4881.1	4685.2	4560.9	4410.3	4218.2	3653.3	2659.0	2112.9
32.5°	5574.1	5543.9	5430.9	5291.6	5061.8	4922.5	4715.3	4496.9	3958.3	2862.4	2207.0
35°	5946.9	5916.8	5785.0	5607.9	5408.3	5287.8	5050.5	4745.5	4237.0	3039.4	2286.1
37.5°	6229.4	6195.5	6071.2	5897.9	5720.9	5664.4	5461.1	5061.8	4553.4	3261.6	2384.0
40°	6387.6	6346.1	6263.3	6142.8	5995.9	5969.5	5882.9	5453.5	4952.6	3532.7	2527.2
42.5°	6406.4	6368.7	6323.5	6312.2	6300.9	6323.5	6365.0	5897.9	5408.3	3894.3	2738.1
45°	6240.7	6218.1	6221.8	6349.9	6526.9	6734.1	6982.6	6553.3	6022.2	4583.5	3212.6
47.5°	5886.7	5875.4	5958.2	6172.9	6568.3	7039.1	7743.4	7675.6	7476.0	5694.6	3822.7
50°	5314.2	5295.3	5472.4	5811.3	6376.3	7140.8	8255.6	8997.6	9163.3	6557.0	4222.0
52.5°	4493.1	4515.7	4790.7	5253.9	5935.6	7031.6	8466.5	9539.9	9976.8	7193.5	4527.0
55°	3653.3	3619.4	3867.9	4440.4	5284.0	6632.4	8508.0	9852.5	10504.1	7781.1	4824.6
57.5°	2662.7	2745.6	3009.2	3529.0	4444.2	5909.2	8266.9	10067.2	11212.1	8368.6	5099.5
60°	1804.0	1804.0	2037.5	2557.3	3434.8	5031.7	7622.9	9988.1	11829.8	8828.1	5159.8
62.5°	1148.7	1137.4	1325.7	1694.8	2459.4	3909.4	6658.7	9491.0	12048.2	8937.3	4907.4
65°	726.9	742.0	809.7	1035.7	1574.3	2775.7	5344.3	8500.4	11690.4	8685.0	4466.8
67.5°	583.8	587.5	621.4	715.6	967.9	1781.4	3962.1	7133.3	10835.5	8048.5	3950.8
70°	516.0	523.5	531.0	564.9	662.9	1126.1	2602.5	5743.5	9434.5	6941.2	3397.2
72.5°	470.8	478.3	485.8	493.4	546.1	734.4	1536.6	4353.8	7611.6	5333.0	2591.2
75°	433.1	440.7	440.7	444.4	474.5	546.1	843.6	3001.7	5299.1	3318.1	1615.7
77.5°	387.9	391.7	391.7	399.2	429.4	429.4	523.5	1856.8	2941.4	1502.7	817.3
80°	327.7	335.2	335.2	346.5	376.6	331.4	350.3	949.1	1220.3	617.7	365.3
82.5°	241.0	256.1	263.6	282.5	301.3	252.3	252.3	478.3	516.0	274.9	195.8
85°	131.8	135.6	195.8	210.9	222.2	150.7	169.5	237.3	256.1	120.5	97.9
87.5°	37.7	41.4	94.2	116.8	105.5	64.0	71.6	90.4	90.4	33.9	26.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5
2.5°	1212.7	1182.6	1156.2	1137.4	1118.6	1107.3	1103.5	1096.0	1096.0	1099.7
5°	1227.8	1175.1	1133.6	1111.0	1096.0	1088.4	1084.7	1084.7	1088.4	1088.4
7.5°	1265.5	1186.4	1148.7	1129.9	1114.8	1107.3	1107.3	1103.5	1107.3	1107.3
10°	1318.2	1220.3	1178.8	1156.2	1144.9	1133.6	1129.9	1126.1	1126.1	1126.1
12.5°	1374.7	1257.9	1212.7	1186.4	1167.5	1152.5	1144.9	1137.4	1133.6	1133.6
15°	1427.4	1295.6	1235.3	1205.2	1178.8	1156.2	1141.2	1129.9	1126.1	1126.1
17.5°	1483.9	1322.0	1250.4	1209.0	1175.1	1144.9	1126.1	1111.0	1103.5	1103.5
20°	1544.2	1340.8	1250.4	1197.7	1152.5	1122.3	1099.7	1084.7	1069.6	1069.6
22.5°	1593.1	1348.3	1235.3	1171.3	1126.1	1088.4	1065.8	1047.0	1035.7	1035.7
25°	1634.6	1340.8	1201.4	1129.9	1077.1	1043.3	1020.7	1005.6	994.3	994.3
27.5°	1660.9	1310.7	1160.0	1084.7	1035.7	1001.8	986.8	971.7	964.2	964.2
30°	1676.0	1273.0	1107.3	1035.7	986.8	967.9	960.4	945.3	934.0	930.3
32.5°	1683.5	1216.5	1054.6	986.8	952.9	945.3	945.3	926.5	911.4	907.7
35°	1676.0	1156.2	1001.8	945.3	934.0	937.8	930.3	907.7	888.8	881.3
37.5°	1664.7	1084.7	945.3	915.2	926.5	934.0	911.4	881.3	851.2	843.6
40°	1657.2	1020.7	900.1	885.1	919.0	922.7	881.3	824.8	802.2	794.7
42.5°	1694.8	956.6	858.7	862.5	900.1	903.9	828.6	802.2	787.1	783.4
45°	1822.9	900.1	824.8	847.4	877.5	862.5	802.2	798.4	787.1	783.4
47.5°	1920.8	858.7	809.7	836.1	858.7	806.0	798.4	794.7	783.4	779.6
50°	1954.7	832.3	806.0	828.6	832.3	779.6	790.9	790.9	779.6	775.8
52.5°	1958.5	817.3	813.5	824.8	790.9	768.3	783.4	783.4	772.1	768.3
55°	1973.5	809.7	817.3	824.8	745.7	753.3	768.3	772.1	760.8	757.0
57.5°	1943.4	798.4	824.8	828.6	726.9	738.2	753.3	753.3	753.3	753.3
60°	1826.6	775.8	821.0	821.0	711.8	719.4	734.4	742.0	745.7	745.7
62.5°	1612.0	730.7	798.4	798.4	696.8	704.3	723.1	723.1	734.4	734.4
65°	1340.8	666.6	753.3	749.5	681.7	689.2	711.8	704.3	723.1	726.9
67.5°	1118.6	587.5	685.5	693.0	666.6	685.5	700.5	674.2	711.8	711.8
70°	892.6	493.4	595.1	629.0	640.3	689.2	677.9	636.5	685.5	674.2
72.5°	693.0	418.1	489.6	549.9	610.1	685.5	629.0	583.8	613.9	595.1
75°	504.7	346.5	403.0	455.7	568.7	674.2	580.0	512.2	512.2	504.7
77.5°	354.0	282.5	323.9	361.6	527.3	644.0	519.7	440.7	421.8	418.1
80°	241.0	222.2	256.1	278.7	467.0	583.8	448.2	365.3	331.4	323.9
82.5°	158.2	158.2	173.2	188.3	361.6	485.8	350.3	271.2	350.3	335.2
85°	90.4	94.2	94.2	109.2	199.6	342.7	248.6	271.2	161.9	150.7
87.5°	30.1	30.1	30.1	30.1	41.4	139.4	105.5	97.9	37.7	33.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)