

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: P399157

Luminaire Tested: **ARCH-L-PA3-100-760-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-100-760-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16846 lumens  
Efficiency: N/A  
Efficacy: 165.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

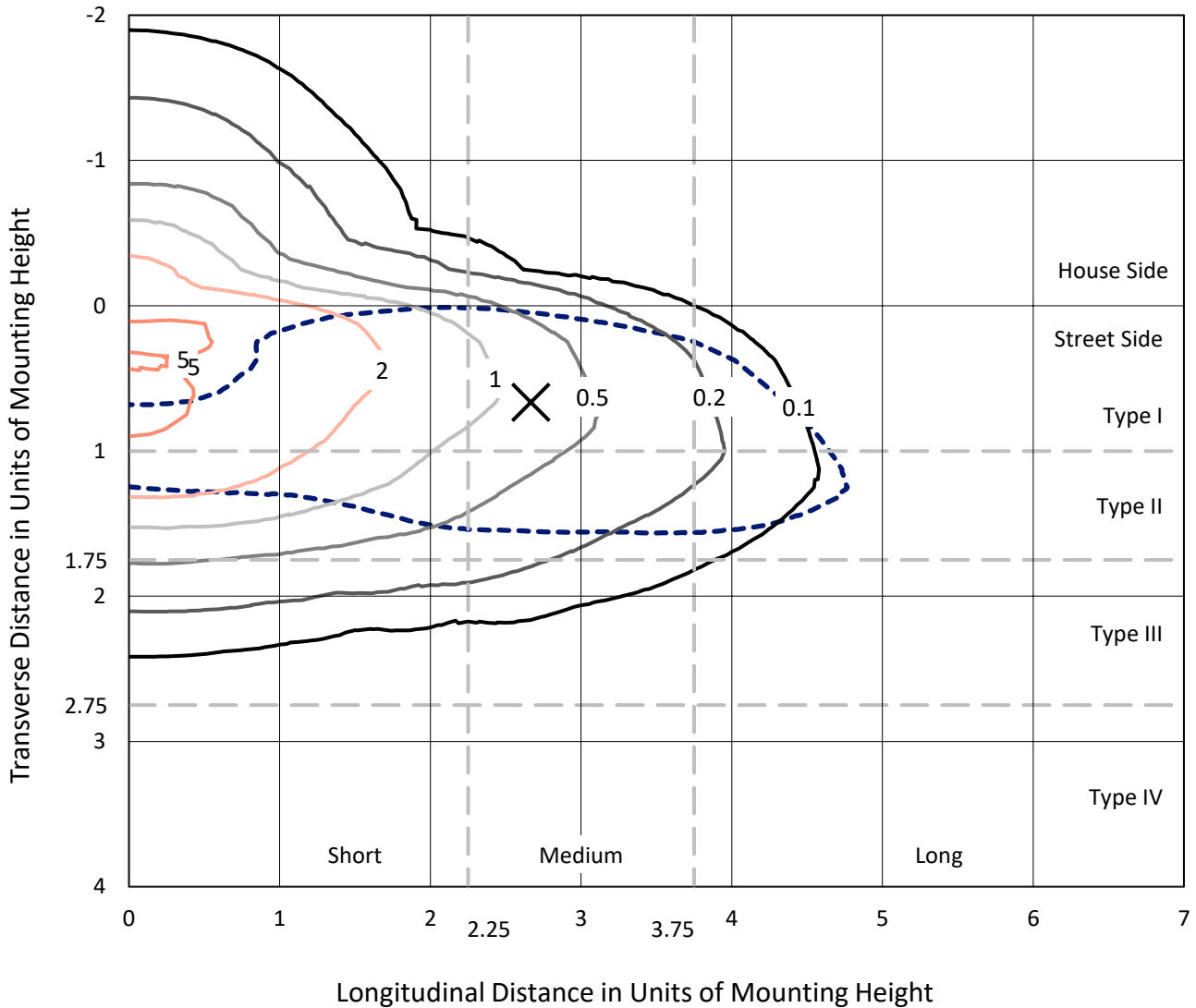
Input Watts (W): 102  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

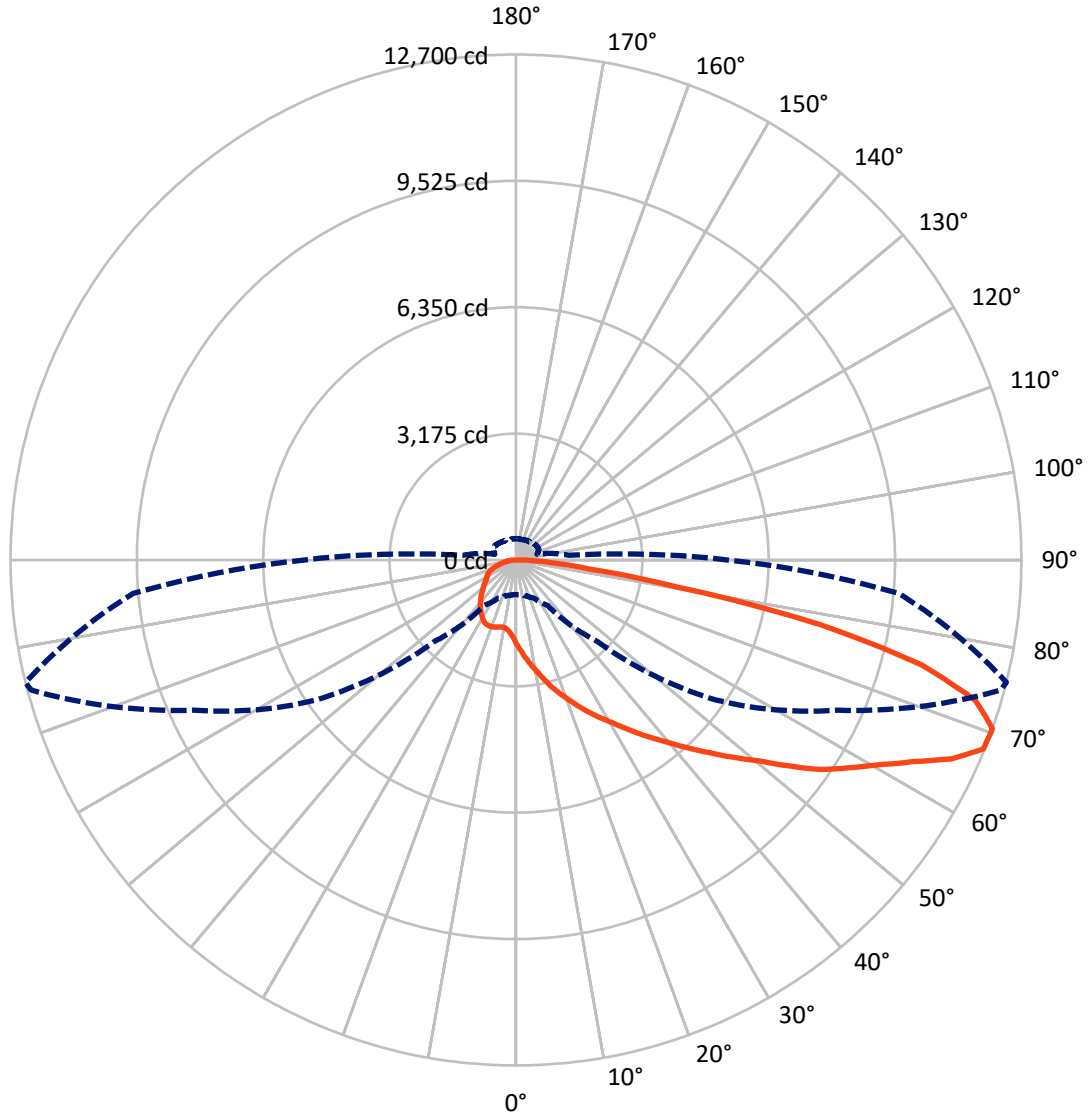
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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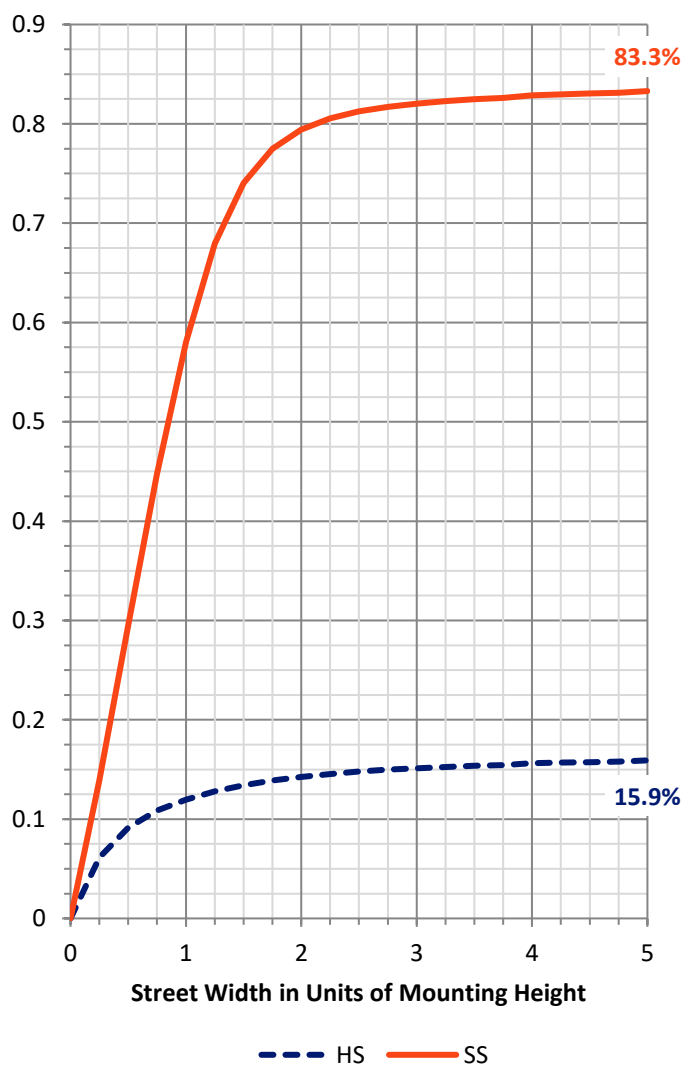
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2750.3	0.0	2750.3
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	14095.7	0.0	14095.7
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	16846.0	0.0	16846.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.9	1.3
10°-20°	743.9	4.4
20°-30°	1331.0	7.9
30°-40°	2153.1	12.8
40°-50°	3114.8	18.5
50°-60°	3565.1	21.2
60°-70°	3279.4	19.5
70°-80°	2028.0	12.0
80°-90°	411.8	2.4
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°	16846.0	100.0
0°-180°	16846.0	100.0

**Coefficient of Utilization**

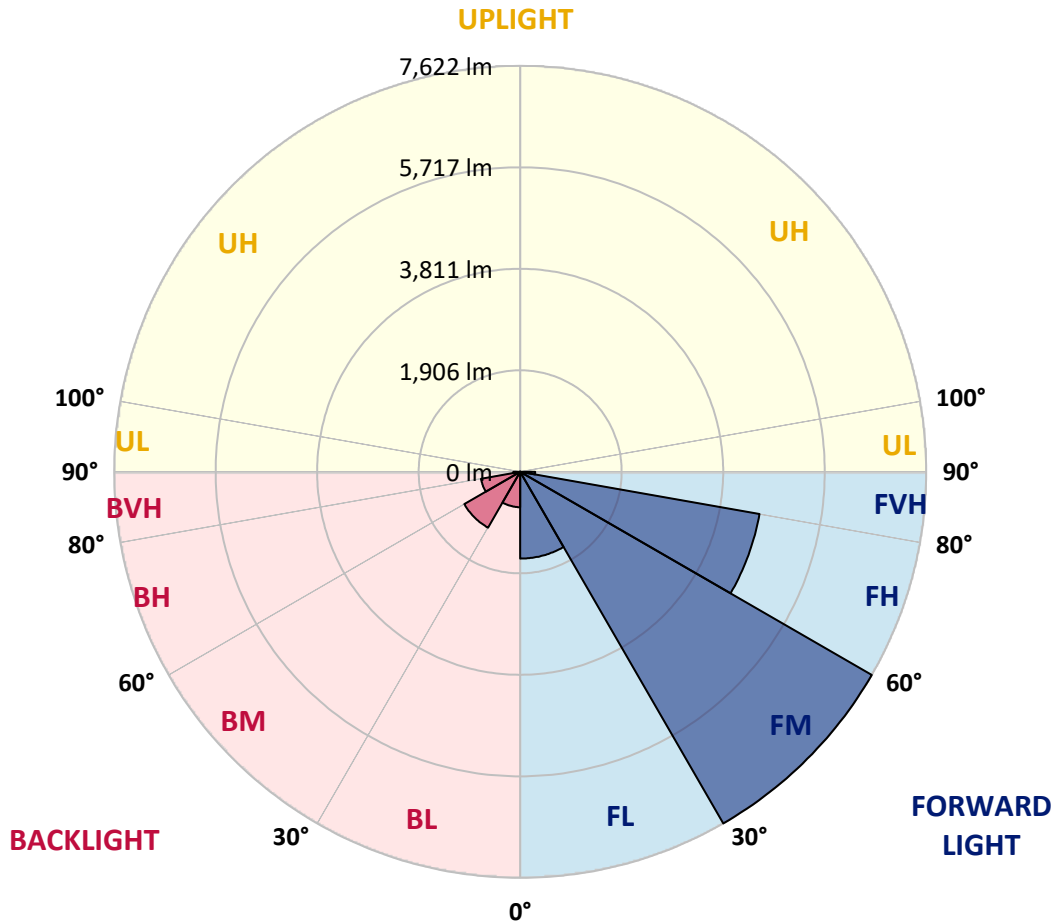


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1629.6	9.7			
FM (30°-60°)	7622.0	45.2			
FH (60°-80°)	4561.4	27.1			G2/5000
FVH (80°-90°)	282.7	1.7			G3/500
BL (0°-30°)	664.3	3.9	B2/1000		
BM (30°-60°)	1210.9	7.2	B2/2500		
BH (60°-80°)	746.0	4.4	B2/1000		G2/1000
BVH (80°-90°)	129.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7
2.5°	2684.8	2664.9	2662.7	2631.7	2602.9	2525.3	2470.0	2372.5	2275.0	2272.8	2175.3
5°	3103.5	3083.6	3072.5	3034.8	2986.1	2884.2	2784.5	2633.9	2467.7	2456.7	2272.8
7.5°	3387.1	3369.3	3347.2	3331.7	3285.2	3194.3	3072.5	2893.1	2664.9	2642.7	2385.8
10°	3577.6	3566.5	3562.1	3551.0	3522.2	3449.1	3331.7	3141.2	2862.1	2837.7	2505.4
12.5°	3659.5	3655.1	3675.0	3706.0	3717.1	3688.3	3575.3	3395.9	3079.1	3052.6	2649.4
15°	3564.3	3568.7	3619.7	3726.0	3839.0	3901.0	3834.5	3659.5	3325.0	3287.4	2817.7
17.5°	3520.0	3526.6	3562.1	3664.0	3823.5	4016.2	4047.2	3909.8	3562.1	3508.9	2995.0
20°	3597.5	3606.4	3632.9	3712.7	3823.5	4029.5	4191.2	4149.1	3794.7	3739.3	3165.5
22.5°	3794.7	3805.7	3803.5	3854.5	3929.8	4071.6	4270.9	4375.0	4038.3	3976.3	3342.8
25°	4215.5	4206.7	4131.4	4107.0	4126.9	4217.8	4377.3	4592.1	4293.1	4231.1	3528.8
27.5°	4787.1	4776.0	4638.6	4514.6	4403.8	4443.7	4527.9	4767.1	4552.3	4481.4	3706.0
30°	5398.5	5385.2	5225.7	5024.1	4778.2	4720.6	4709.5	4920.0	4813.7	4738.3	3894.3
32.5°	5994.4	5983.3	5812.7	5577.9	5239.0	5066.2	4959.9	5090.6	5110.5	5037.4	4100.4
35°	6537.1	6537.1	6390.9	6111.8	5728.5	5467.1	5292.1	5301.0	5451.6	5367.5	4335.2
37.5°	7020.0	7017.8	6858.3	6583.6	6215.9	5916.8	5699.7	5555.7	5777.3	5704.2	4581.1
40°	7403.2	7387.7	7270.3	7031.1	6661.1	6364.3	6145.0	5854.8	6140.6	6074.1	4842.4
42.5°	7682.3	7673.5	7593.7	7385.5	7033.3	6754.2	6603.5	6231.4	6552.6	6486.1	5148.1
45°	7790.9	7808.6	7808.6	7611.5	7332.3	7077.6	7011.1	6645.6	6997.8	6931.4	5476.0
47.5°	7615.9	7662.4	7757.7	7771.0	7525.1	7352.3	7374.4	7062.1	7456.4	7421.0	5834.9
50°	7068.7	7155.1	7363.4	7739.9	7602.6	7562.7	7684.6	7487.4	7948.2	7937.1	6271.3
52.5°	5657.6	5868.1	6517.1	7192.8	7549.4	7660.2	7992.5	7965.9	8581.7	8599.4	6840.6
55°	4339.6	4419.3	5170.3	6320.0	7223.8	7629.2	8198.5	8433.3	9268.4	9290.6	7363.4
57.5°	3508.9	3562.1	3971.9	5170.3	6481.7	7460.8	8360.2	8705.8	9795.7	9853.3	7828.6
60°	2780.1	2857.6	3132.3	3956.4	5442.8	7055.4	8473.2	9009.3	10362.8	10449.1	8384.6
62.5°	2066.8	2104.4	2363.6	2930.7	4308.6	6326.6	8413.4	9339.3	11058.3	11162.4	9053.6
65°	1470.9	1504.1	1688.0	2084.5	3185.5	5340.9	8065.6	9585.2	11931.1	12037.4	9727.0
67.5°	1101.0	1114.3	1218.4	1457.6	2146.5	4149.1	7361.1	9543.1	12569.1	12664.4	9997.2
70°	870.6	875.0	926.0	1054.4	1395.6	2888.6	6127.3	8925.1	12615.6	12699.8	9656.1
72.5°	722.2	719.9	748.7	810.8	972.5	1827.5	4539.0	7777.6	12017.5	12075.1	8703.6
75°	595.9	600.3	620.3	655.7	742.1	1205.1	2941.8	6204.8	10602.0	10540.0	7303.5
77.5°	500.6	498.4	507.3	538.3	600.3	866.1	1723.4	4483.6	7857.3	7826.3	4793.7
80°	403.2	407.6	420.9	447.5	505.1	660.1	1019.0	2797.8	4215.5	4102.6	2290.5
82.5°	270.3	312.3	338.9	369.9	436.4	487.3	646.8	1422.2	1885.1	1856.3	1038.9
85°	128.5	170.6	252.5	288.0	354.4	305.7	438.6	677.9	943.7	932.6	374.4
87.5°	26.6	26.6	135.1	161.7	219.3	130.7	243.7	294.6	456.3	427.5	152.8
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°	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7
2.5°	2117.7	2057.9	1938.3	1843.1	1745.6	1690.2	1621.5	1588.3	1581.7	1563.9	1577.2
5°	2155.4	2038.0	1812.0	1663.6	1563.9	1515.2	1490.8	1482.0	1479.8	1475.3	1475.3
7.5°	2206.3	2026.9	1732.3	1581.7	1517.4	1501.9	1508.6	1521.8	1524.1	1528.5	1526.3
10°	2268.4	2029.1	1688.0	1561.7	1530.7	1532.9	1555.1	1572.8	1581.7	1588.3	1586.1
12.5°	2354.8	2055.7	1681.3	1575.0	1561.7	1570.6	1592.7	1610.5	1619.3	1621.5	1621.5
15°	2467.7	2111.1	1696.9	1603.8	1592.7	1599.4	1612.7	1619.3	1621.5	1619.3	1619.3
17.5°	2591.8	2177.6	1719.0	1621.5	1603.8	1597.2	1592.7	1586.1	1572.8	1563.9	1563.9
20°	2711.4	2237.4	1730.1	1619.3	1588.3	1561.7	1535.1	1501.9	1479.8	1462.0	1462.0
22.5°	2831.0	2292.7	1730.1	1595.0	1546.2	1495.3	1439.9	1386.7	1353.5	1331.3	1331.3
25°	2957.3	2345.9	1716.8	1552.9	1479.8	1406.7	1331.3	1264.9	1231.7	1209.5	1205.1
27.5°	3063.6	2376.9	1681.3	1493.1	1397.8	1304.8	1218.4	1149.7	1125.3	1105.4	1105.4
30°	3176.6	2396.9	1614.9	1415.5	1304.8	1198.4	1109.8	1054.4	1027.9	999.1	996.8
32.5°	3302.9	2410.1	1539.6	1333.6	1209.5	1096.5	1021.2	976.9	919.3	888.3	883.9
35°	3449.1	2427.9	1459.8	1240.5	1114.3	1012.4	968.0	894.9	839.6	813.0	810.8
37.5°	3604.1	2441.2	1373.4	1158.6	1027.9	957.0	912.7	826.3	777.5	737.7	733.2
40°	3768.1	2441.2	1284.8	1078.8	959.2	932.6	848.4	770.9	688.9	669.0	664.6
42.5°	3949.7	2436.7	1196.2	1001.3	894.9	877.2	810.8	728.8	686.7	669.0	664.6
45°	4142.4	2421.2	1112.0	912.7	828.5	793.0	742.1	719.9	702.2	702.2	702.2
47.5°	4361.7	2407.9	1016.8	832.9	779.8	739.9	702.2	688.9	686.7	693.4	700.0
50°	4643.1	2403.5	937.0	775.3	742.1	695.6	691.1	680.1	682.3	682.3	682.3
52.5°	4984.2	2363.6	861.7	733.2	704.4	649.1	662.3	673.4	677.9	675.6	673.4
55°	5234.5	2292.7	797.5	704.4	677.9	631.3	649.1	666.8	671.2	664.6	664.6
57.5°	5460.5	2193.1	746.5	682.3	660.1	620.3	640.2	657.9	653.5	651.3	649.1
60°	5719.7	2097.8	706.7	671.2	642.4	615.8	633.5	644.6	638.0	633.5	631.3
62.5°	6001.0	2004.8	677.9	671.2	629.1	613.6	626.9	631.3	618.0	613.6	613.6
65°	6131.7	1858.6	646.8	671.2	622.5	609.2	613.6	609.2	595.9	595.9	593.7
67.5°	5916.8	1617.1	607.0	662.3	631.3	602.5	593.7	587.0	571.5	571.5	567.1
70°	5323.1	1329.1	549.4	633.5	633.5	600.3	567.1	551.6	533.9	540.5	531.7
72.5°	4547.8	1054.4	478.5	584.8	620.3	598.1	538.3	513.9	498.4	505.1	491.8
75°	3683.9	817.4	394.3	507.3	587.0	587.0	509.5	476.3	458.5	458.5	443.0
77.5°	2348.1	604.8	321.2	420.9	527.2	571.5	485.1	434.2	407.6	401.0	389.9
80°	1163.0	425.3	263.6	334.5	449.7	536.1	467.4	385.4	347.8	334.5	314.6
82.5°	618.0	294.6	210.4	261.4	358.9	482.9	445.3	332.3	285.8	265.8	243.7
85°	276.9	181.6	168.4	199.4	272.5	396.5	401.0	272.5	219.3	261.4	192.7
87.5°	101.9	82.0	82.0	101.9	157.3	166.1	283.5	175.0	139.6	95.3	75.3
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)