

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: P400272

Luminaire Tested: **ARCH-L-PA3-260-727-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-260-727-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22926 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

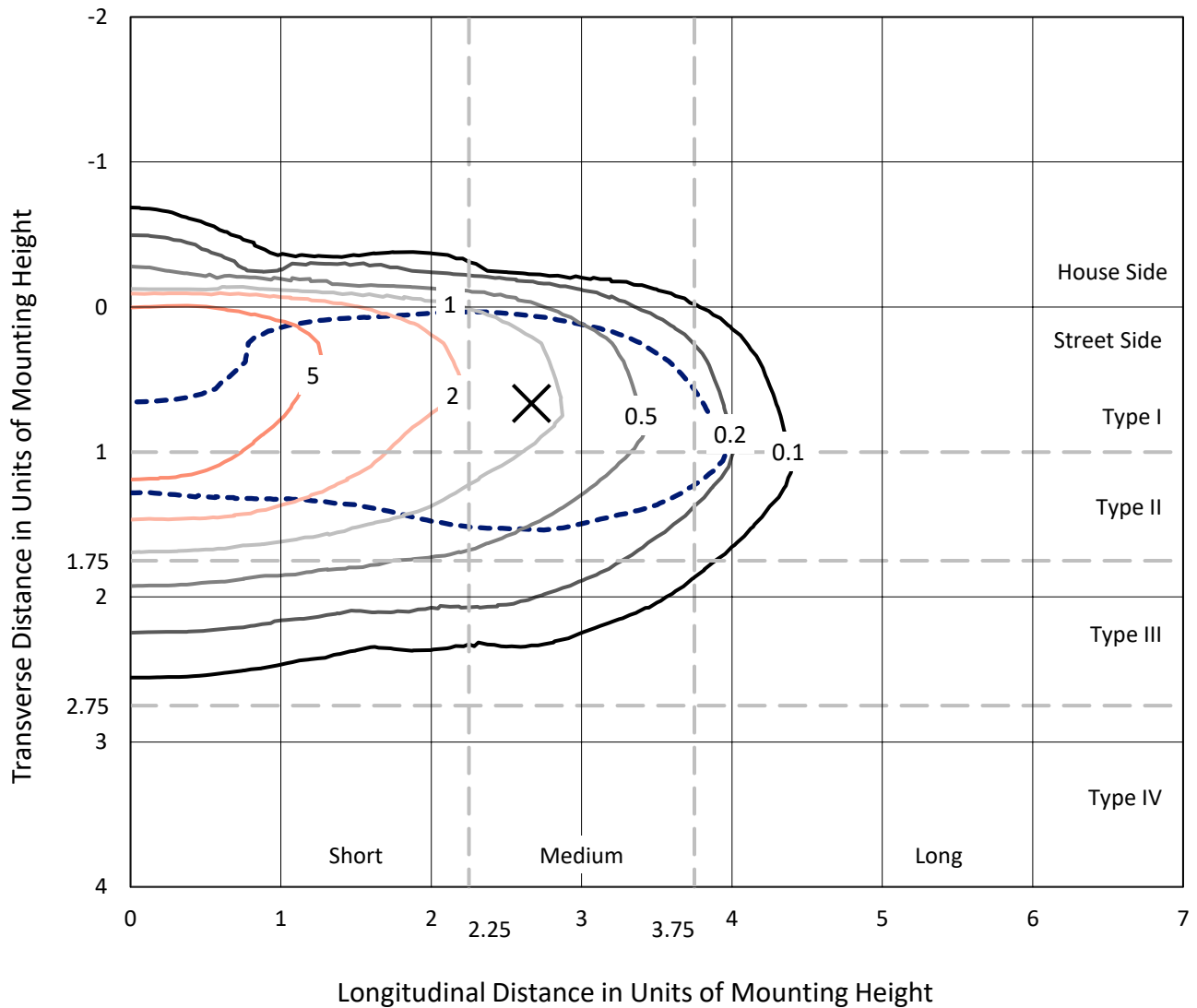
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

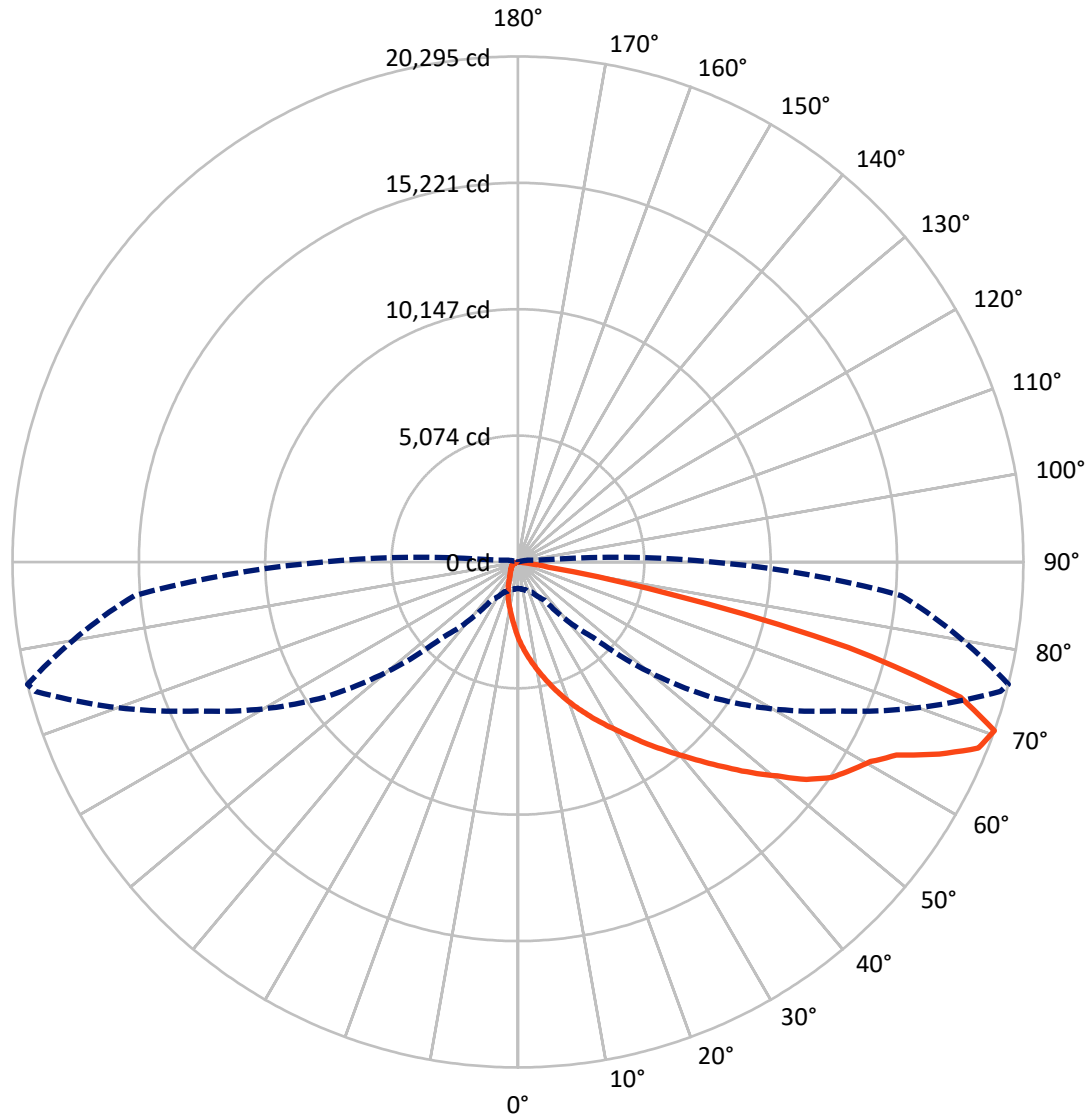
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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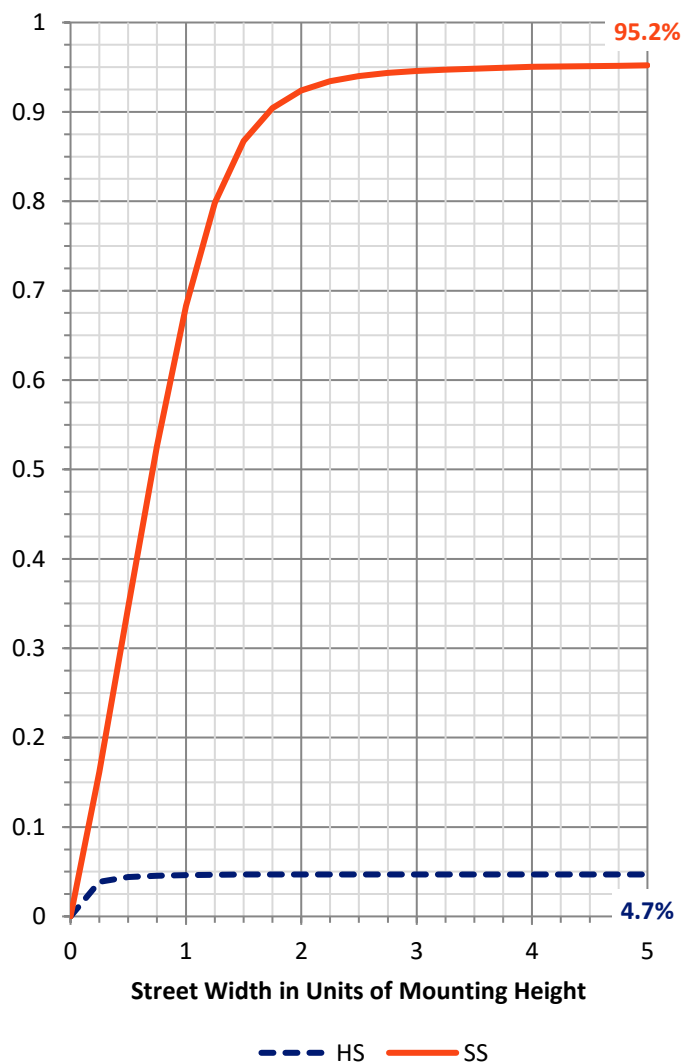
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1081.3	0.0	1081.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	21844.7	0.0	21844.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	22926.0	0.0	22926.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.1	1.3
10°-20°	933.1	4.1
20°-30°	1737.7	7.6
30°-40°	3073.7	13.4
40°-50°	4700.3	20.5
50°-60°	5329.1	23.2
60°-70°	4568.3	19.9
70°-80°	2212.6	9.7
80°-90°	82.1	0.4
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°	22926.0	100.0
0°-180°	22926.0	100.0

**Coefficient of Utilization**

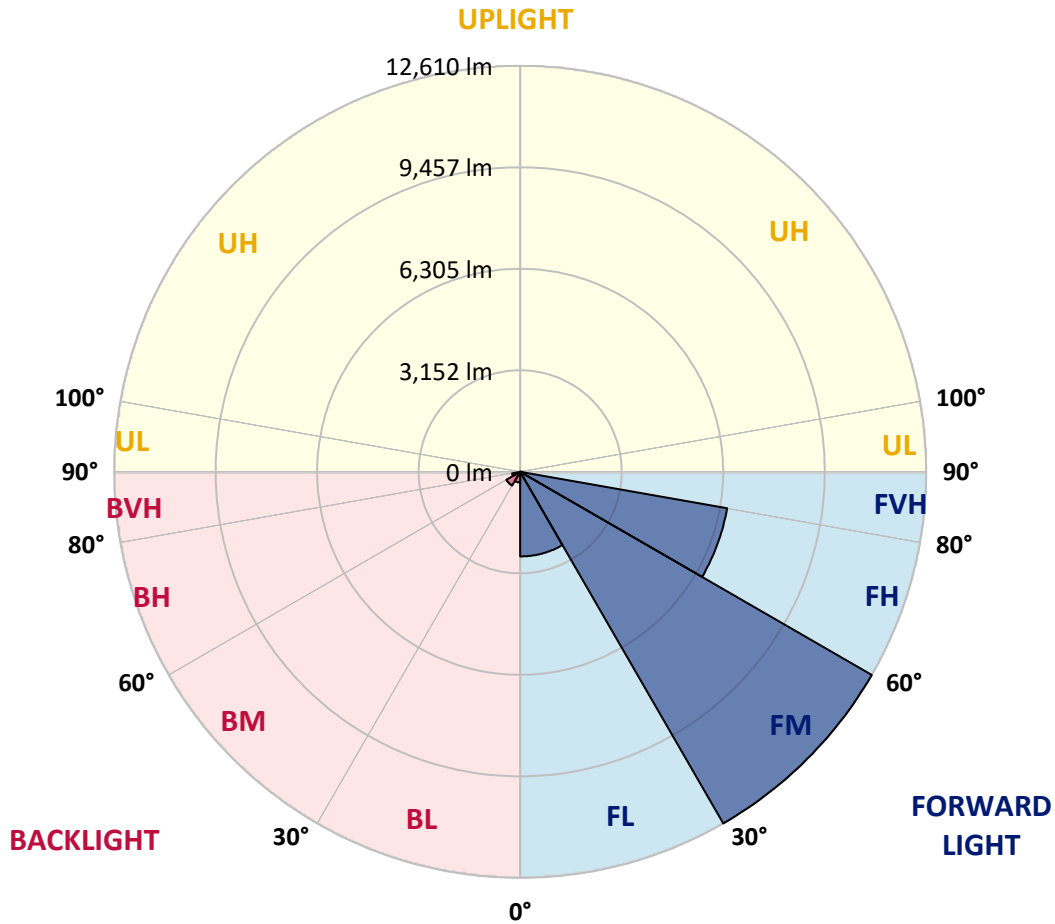


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2628.2	11.5			
FM (30°-60°)	12609.5	55.0			
FH (60°-80°)	6526.4	28.5			G3/7500
FVH (80°-90°)	80.7	0.4			G1/100
BL (0°-30°)	331.7	1.4	B1/500		
BM (30°-60°)	493.6	2.2	B1/1000		
BH (60°-80°)	254.6	1.1	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8
2.5°	4194.8	4171.9	4149.0	4061.2	3981.0	3908.5	3771.1	3591.7	3431.4	3397.0	3210.0
5°	4927.6	4900.9	4866.6	4778.8	4675.7	4553.6	4351.3	4076.5	3794.0	3732.9	3385.6
7.5°	5423.8	5400.9	5351.3	5309.3	5206.3	5087.9	4862.7	4542.1	4152.8	4076.5	3587.9
10°	5763.5	5748.3	5740.6	5706.3	5629.9	5534.5	5309.3	4973.4	4515.4	4427.6	3801.6
12.5°	5885.7	5885.7	5923.8	5981.1	5992.5	5962.0	5755.9	5420.0	4897.1	4805.5	4053.6
15°	5721.5	5740.6	5824.6	6007.8	6198.7	6324.6	6194.8	5881.9	5316.9	5217.7	4351.3
17.5°	5675.7	5694.8	5752.1	5912.4	6168.1	6504.0	6568.9	6328.4	5713.9	5629.9	4656.6
20°	5805.5	5824.6	5874.2	6011.6	6206.3	6546.0	6817.0	6759.7	6133.8	6046.0	4965.8
22.5°	6114.7	6126.1	6126.1	6233.0	6404.8	6656.7	6973.5	7168.1	6565.1	6469.7	5271.1
25°	6778.8	6755.9	6664.3	6610.9	6721.6	6927.7	7172.0	7526.9	7046.0	6916.2	5599.4
27.5°	7649.1	7725.4	7504.0	7248.3	7164.3	7282.7	7450.6	7843.7	7511.7	7374.3	5897.1
30°	8828.5	8798.0	8507.9	8141.5	7778.9	7736.9	7794.1	8114.7	7977.3	7847.6	6229.2
32.5°	9798.0	9855.3	9549.9	9103.3	8561.3	8305.6	8244.5	8439.2	8473.5	8389.6	6622.3
35°	10794.2	10855.3	10557.6	10061.4	9416.3	8988.8	8813.2	8840.0	9088.1	8981.2	7034.6
37.5°	11687.4	11740.8	11446.9	10939.3	10294.2	9771.3	9519.4	9313.3	9683.5	9588.1	7469.7
40°	12366.8	12374.4	12175.9	11721.7	11111.0	10569.0	10282.7	9878.2	10313.3	10248.4	7923.9
42.5°	12847.7	12863.0	12717.9	12328.6	11763.7	11259.9	11027.0	10546.1	11038.5	10981.2	8450.6
45°	13072.9	13099.6	13084.4	12725.6	12256.1	11821.0	11744.6	11256.1	11832.4	11779.0	9057.5
47.5°	12859.2	12859.2	13053.8	13004.2	12572.9	12282.8	12370.6	11996.5	12695.0	12645.4	9675.9
50°	11969.8	11981.3	12378.2	12946.9	12695.0	12630.1	12905.0	12721.7	13477.5	13508.0	10416.3
52.5°	9633.9	9614.8	10954.5	12046.2	12611.1	12786.6	13397.3	13462.2	14416.5	14508.1	11153.0
55°	7198.7	7187.2	8469.7	10450.7	12023.3	12706.5	13672.2	14122.6	15218.0	15275.3	11702.6
57.5°	5698.6	5668.1	6374.2	8423.9	10695.0	12347.7	13683.6	14248.5	15664.6	15763.8	12237.0
60°	4381.8	4355.1	4881.8	6267.4	8813.2	11393.5	13355.4	14256.1	16095.9	16271.5	12954.6
62.5°	3133.7	3164.2	3568.8	4496.3	6778.8	10046.1	12927.9	14363.0	16863.1	17061.6	13973.7
65°	2114.6	2099.3	2435.2	3061.2	4820.8	8233.1	12271.4	14588.2	18244.8	18592.1	15195.1
67.5°	1469.5	1481.0	1633.6	1992.4	3061.2	6320.8	11179.7	14714.2	19672.3	19943.3	16050.1
70°	1061.1	1076.4	1160.3	1339.7	1870.3	4286.4	9450.7	14137.8	20057.8	20294.5	15454.7
72.5°	698.5	729.0	855.0	950.4	1194.7	2683.3	6962.0	12179.7	18397.5	18573.1	12966.0
75°	377.9	385.5	549.6	709.9	851.2	1671.8	4152.8	8214.0	13763.8	13706.5	8549.9
77.5°	293.9	305.4	339.7	507.6	572.5	919.9	1641.3	3710.0	6519.3	6343.7	2916.1
80°	179.4	187.0	236.6	301.5	400.8	534.4	480.9	1007.7	1324.5	1240.5	427.5
82.5°	106.9	114.5	141.2	251.9	316.8	251.9	167.9	244.3	248.1	244.3	106.9
85°	19.1	19.1	99.2	175.6	167.9	72.5	99.2	80.2	72.5	76.3	22.9
87.5°	0.0	0.0	38.2	53.4	76.3	26.7	38.2	19.1	19.1	19.1	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8	3068.8
2.5°	3095.5	2965.7	2698.6	2465.7	2232.9	2061.1	1931.4	1797.8	1752.0	1694.7	1664.2
5°	3148.9	2893.2	2362.7	1939.0	1580.2	1305.4	1129.8	1022.9	954.2	904.6	893.2
7.5°	3229.1	2836.0	2091.7	1519.1	1126.0	851.2	706.1	633.6	595.4	572.5	564.9
10°	3324.5	2786.3	1824.5	1183.2	793.9	599.3	519.1	488.6	473.3	465.7	461.8
12.5°	3458.1	2767.3	1599.3	912.2	599.3	492.4	450.4	431.3	419.9	408.4	404.6
15°	3633.7	2774.9	1393.2	706.1	496.2	438.9	404.6	385.5	370.2	358.8	358.8
17.5°	3816.9	2786.3	1190.9	572.5	450.4	400.8	362.6	335.9	324.4	313.0	309.2
20°	3988.7	2782.5	996.2	488.6	408.4	358.8	320.6	293.9	274.8	263.4	263.4
22.5°	4152.8	2759.6	813.0	438.9	374.1	316.8	274.8	248.1	232.8	221.4	221.4
25°	4328.4	2713.8	664.1	400.8	332.1	278.6	236.6	209.9	198.5	187.0	187.0
27.5°	4465.8	2637.5	542.0	366.4	293.9	240.5	202.3	179.4	167.9	160.3	160.3
30°	4614.6	2526.8	450.4	328.3	255.7	206.1	171.8	152.7	141.2	137.4	137.4
32.5°	4778.8	2404.7	385.5	290.1	217.6	175.6	145.0	133.6	122.1	118.3	118.3
35°	4969.6	2297.8	347.3	251.9	190.8	148.9	126.0	114.5	106.9	106.9	106.9
37.5°	5187.2	2187.1	313.0	221.4	164.1	126.0	106.9	103.1	99.2	95.4	95.4
40°	5423.8	2068.8	282.5	194.7	141.2	106.9	91.6	91.6	87.8	87.8	87.8
42.5°	5691.0	1965.7	255.7	171.8	122.1	91.6	80.2	80.2	76.3	76.3	76.3
45°	5981.1	1870.3	232.8	152.7	106.9	80.2	72.5	68.7	64.9	64.9	64.9
47.5°	6324.6	1816.8	213.7	133.6	91.6	68.7	61.1	57.3	53.4	49.6	49.6
50°	6763.6	1839.7	194.7	110.7	80.2	57.3	49.6	45.8	42.0	38.2	38.2
52.5°	7110.9	1828.3	167.9	95.4	64.9	45.8	38.2	34.4	30.5	26.7	26.7
55°	7362.8	1782.5	145.0	80.2	49.6	38.2	30.5	22.9	19.1	19.1	19.1
57.5°	7610.9	1736.7	122.1	64.9	38.2	26.7	19.1	15.3	15.3	15.3	15.3
60°	7996.4	1671.8	106.9	53.4	30.5	19.1	11.5	11.5	7.6	7.6	7.6
62.5°	8465.9	1591.6	87.8	45.8	22.9	15.3	7.6	7.6	0.0	0.0	0.0
65°	8981.2	1450.4	72.5	34.4	19.1	11.5	7.6	0.0	0.0	0.0	0.0
67.5°	8862.9	1164.2	61.1	22.9	15.3	7.6	3.8	0.0	0.0	0.0	0.0
70°	7839.9	786.3	49.6	19.1	11.5	7.6	3.8	0.0	0.0	0.0	0.0
72.5°	6141.4	465.7	34.4	15.3	7.6	3.8	0.0	0.0	0.0	0.0	0.0
75°	3931.4	232.8	22.9	11.5	7.6	3.8	0.0	0.0	0.0	0.0	0.0
77.5°	1316.8	114.5	15.3	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	187.0	38.2	7.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.0	15.3	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.3	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)