

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: P399201

Luminaire Tested: **ARCH-L-PA3-110-730-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399201  
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-PA3-110-730-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 485mA 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: 13290 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

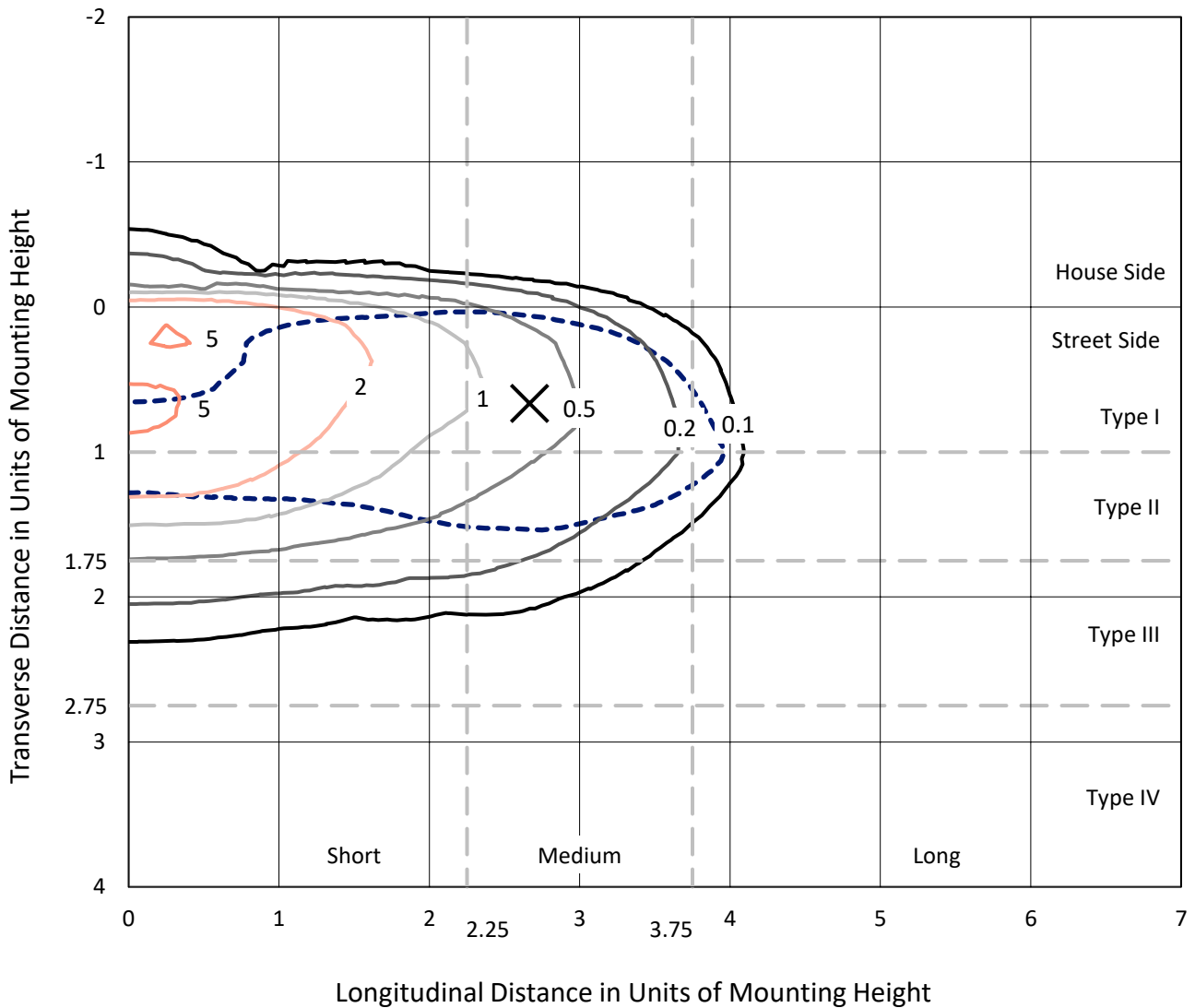
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

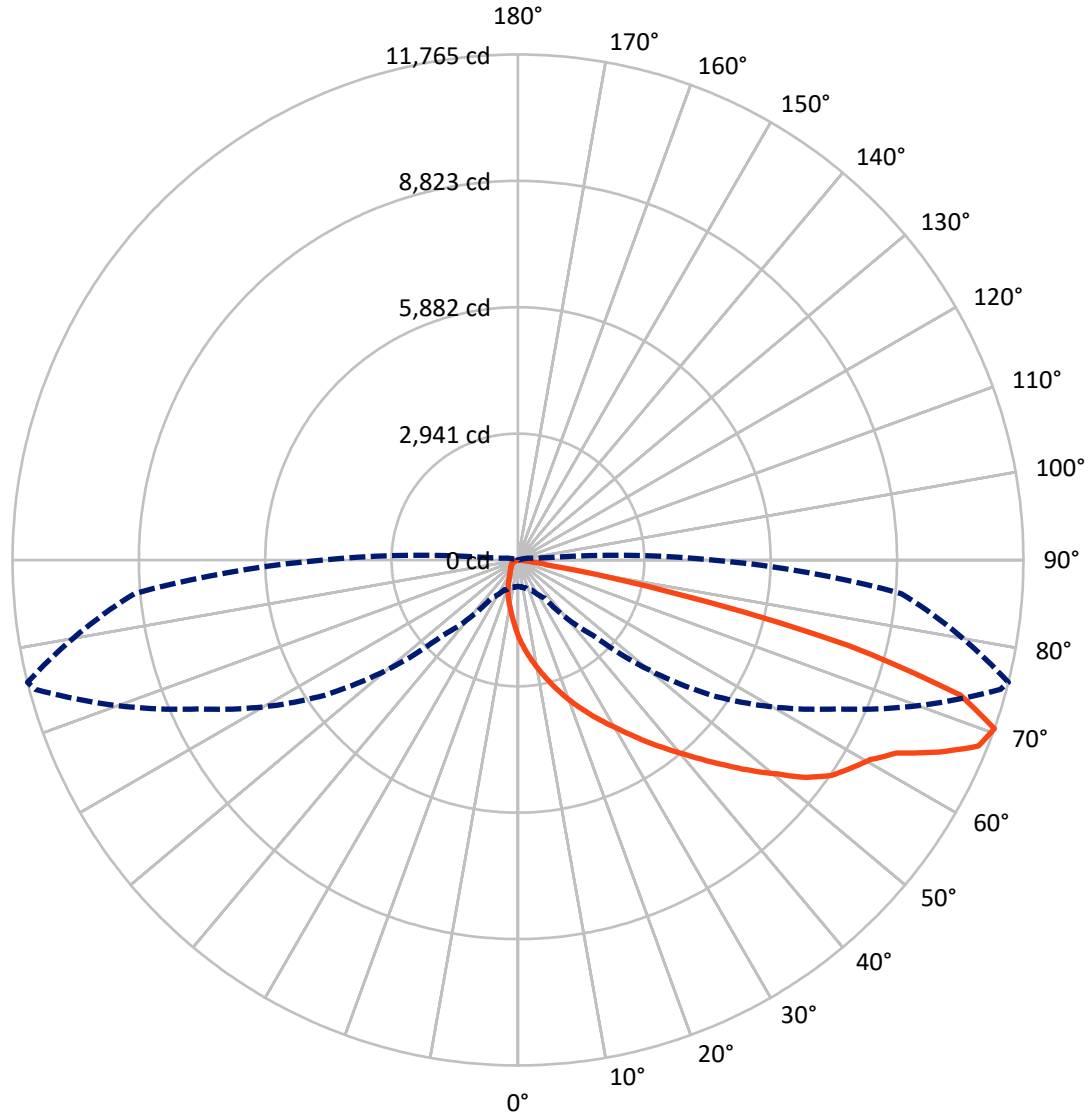
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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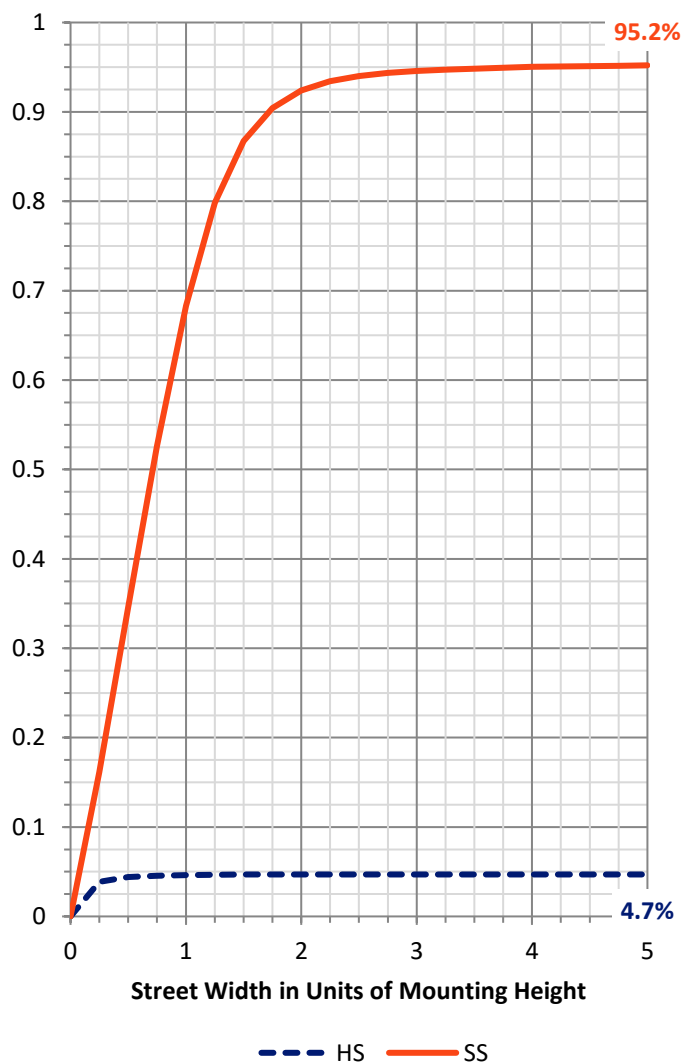
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	626.8	0.0	626.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	12663.2	0.0	12663.2
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	13290.0	0.0	13290.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.6	1.3
10°-20°	540.9	4.1
20°-30°	1007.3	7.6
30°-40°	1781.8	13.4
40°-50°	2724.8	20.5
50°-60°	3089.2	23.2
60°-70°	2648.2	19.9
70°-80°	1282.6	9.7
80°-90°	47.6	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°	13290.0	100.0
0°-180°	13290.0	100.0

**Coefficient of Utilization**

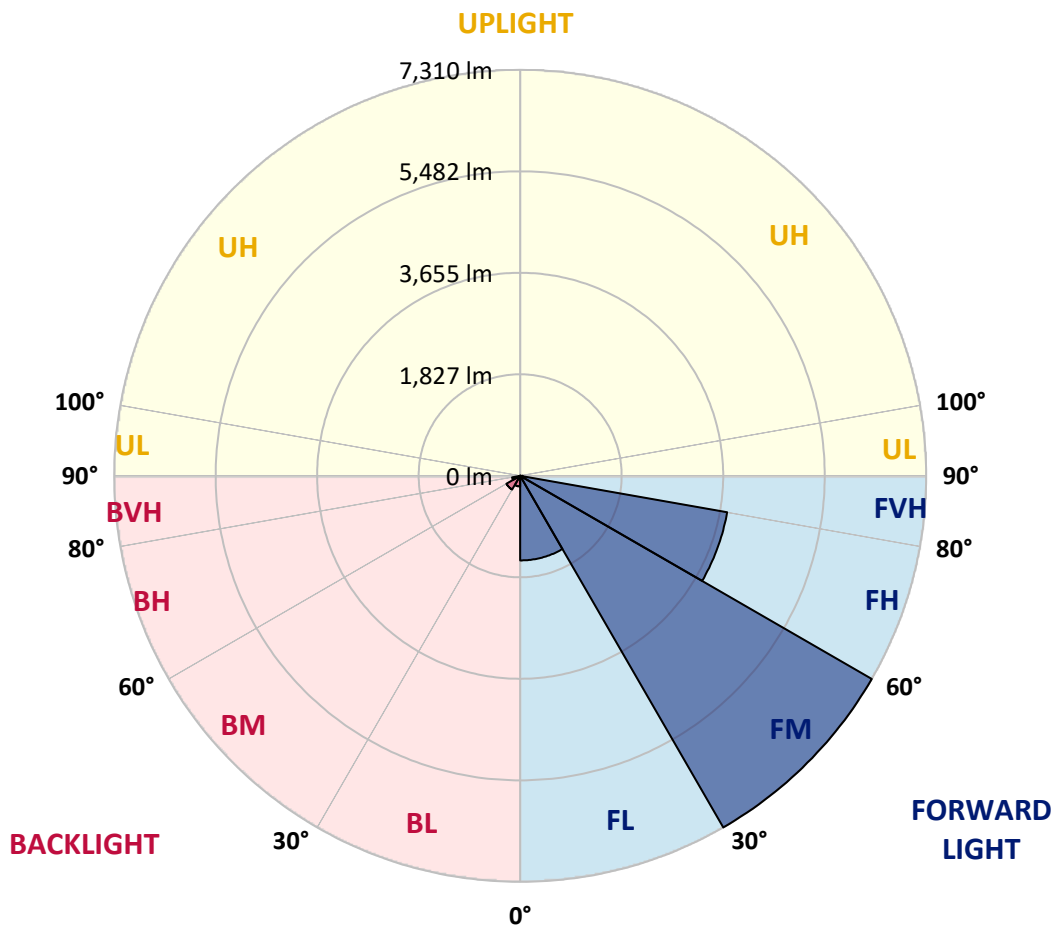


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.5	11.5			
FM (30°-60°)	7309.6	55.0			
FH (60°-80°)	3783.3	28.5			G2/5000
FVH (80°-90°)	46.8	0.4			G1/100
BL (0°-30°)	192.3	1.4	B1/500		
BM (30°-60°)	286.1	2.2	B1/1000		
BH (60°-80°)	147.6	1.1	B1/500		G1/500
BVH (80°-90°)	0.8	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-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0
2.5°	2431.7	2418.4	2405.1	2354.2	2307.8	2265.7	2186.1	2082.1	1989.2	1969.2	1860.8
5°	2856.5	2841.0	2821.1	2770.2	2710.5	2639.7	2522.4	2363.1	2199.4	2163.9	1962.6
7.5°	3144.1	3130.9	3102.1	3077.8	3018.0	2949.4	2818.9	2633.0	2407.3	2363.1	2079.9
10°	3341.1	3332.2	3327.8	3307.9	3263.6	3208.3	3077.8	2883.1	2617.5	2566.6	2203.8
12.5°	3411.9	3411.9	3434.0	3467.2	3473.8	3456.1	3336.6	3141.9	2838.8	2785.7	2349.8
15°	3316.7	3327.8	3376.5	3482.7	3593.3	3666.3	3591.1	3409.7	3082.2	3024.7	2522.4
17.5°	3290.2	3301.2	3334.4	3427.4	3575.6	3770.3	3807.9	3668.5	3312.3	3263.6	2699.4
20°	3365.4	3376.5	3405.2	3484.9	3597.7	3794.7	3951.8	3918.6	3555.7	3504.8	2878.6
22.5°	3544.6	3551.3	3551.3	3613.2	3712.8	3858.8	4042.5	4155.3	3805.7	3750.4	3055.6
25°	3929.6	3916.3	3863.2	3832.3	3896.4	4015.9	4157.5	4363.3	4084.5	4009.3	3245.9
27.5°	4434.1	4478.4	4350.0	4201.8	4153.1	4221.7	4319.0	4546.9	4354.4	4274.8	3418.5
30°	5117.8	5100.1	4931.9	4719.5	4509.3	4485.0	4518.2	4704.0	4624.4	4549.2	3611.0
32.5°	5679.8	5713.0	5536.0	5277.1	4962.9	4814.7	4779.3	4892.1	4912.0	4863.4	3838.9
35°	6257.3	6292.7	6120.1	5832.5	5458.6	5210.7	5109.0	5124.4	5268.3	5206.3	4077.9
37.5°	6775.1	6806.0	6635.7	6341.4	5967.5	5664.3	5518.3	5398.8	5613.4	5558.1	4330.1
40°	7168.9	7173.3	7058.3	6795.0	6441.0	6126.8	5960.8	5726.3	5978.5	5940.9	4593.4
42.5°	7447.7	7456.6	7372.5	7146.8	6819.3	6527.2	6392.3	6113.5	6398.9	6365.7	4898.8
45°	7578.2	7593.7	7584.9	7376.9	7104.7	6852.5	6808.3	6525.0	6859.1	6828.2	5250.6
47.5°	7454.3	7454.3	7567.2	7538.4	7288.4	7120.2	7171.1	6954.3	7359.2	7330.4	5609.0
50°	6938.8	6945.4	7175.5	7505.2	7359.2	7321.6	7480.9	7374.7	7812.8	7830.5	6038.3
52.5°	5584.7	5573.6	6350.2	6983.0	7310.5	7412.3	7766.3	7803.9	8357.1	8410.2	6465.3
55°	4173.0	4166.4	4909.8	6058.2	6969.8	7365.8	7925.6	8186.7	8821.7	8854.9	6783.9
57.5°	3303.5	3285.8	3695.1	4883.3	6199.8	7157.8	7932.3	8259.7	9080.6	9138.1	7093.7
60°	2540.1	2524.6	2829.9	3633.1	5109.0	6604.7	7742.0	8264.2	9330.6	9432.4	7509.7
62.5°	1816.6	1834.3	2068.8	2606.5	3929.6	5823.6	7494.2	8326.1	9775.4	9890.4	8100.4
65°	1225.8	1216.9	1411.7	1774.5	2794.5	4772.6	7113.6	8456.7	10576.4	10777.7	8808.5
67.5°	851.9	858.5	947.0	1155.0	1774.5	3664.1	6480.8	8529.7	11403.9	11561.0	9304.1
70°	615.1	624.0	672.6	776.6	1084.2	2484.8	5478.5	8195.6	11627.4	11764.5	8958.9
72.5°	404.9	422.6	495.6	550.9	692.6	1555.5	4035.8	7060.5	10664.9	10766.6	7516.3
75°	219.1	223.5	318.6	411.5	493.4	969.1	2407.3	4761.6	7978.7	7945.5	4956.3
77.5°	170.4	177.0	196.9	294.3	331.9	533.2	951.4	2150.7	3779.2	3677.4	1690.4
80°	104.0	108.4	137.2	174.8	232.3	309.8	278.8	584.1	767.8	719.1	247.8
82.5°	62.0	66.4	81.9	146.0	183.6	146.0	97.4	141.6	143.8	141.6	62.0
85°	11.1	11.1	57.5	101.8	97.4	42.0	57.5	46.5	42.0	44.3	13.3
87.5°	0.0	0.0	22.1	31.0	44.3	15.5	22.1	11.1	11.1	11.1	6.6
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°	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0	1779.0
2.5°	1794.4	1719.2	1564.3	1429.4	1294.4	1194.8	1119.6	1042.1	1015.6	982.4	964.7
5°	1825.4	1677.2	1369.6	1124.0	916.0	756.7	654.9	593.0	553.2	524.4	517.8
7.5°	1871.9	1644.0	1212.5	880.6	652.7	493.4	409.3	367.3	345.2	331.9	327.5
10°	1927.2	1615.2	1057.6	685.9	460.2	347.4	300.9	283.2	274.4	269.9	267.7
12.5°	2004.6	1604.2	927.1	528.8	347.4	285.4	261.1	250.0	243.4	236.8	234.5
15°	2106.4	1608.6	807.6	409.3	287.6	254.5	234.5	223.5	214.6	208.0	208.0
17.5°	2212.6	1615.2	690.3	331.9	261.1	232.3	210.2	194.7	188.1	181.4	179.2
20°	2312.2	1613.0	577.5	283.2	236.8	208.0	185.9	170.4	159.3	152.7	152.7
22.5°	2407.3	1599.7	471.3	254.5	216.8	183.6	159.3	143.8	135.0	128.3	128.3
25°	2509.1	1573.2	385.0	232.3	192.5	161.5	137.2	121.7	115.1	108.4	108.4
27.5°	2588.8	1528.9	314.2	212.4	170.4	139.4	117.3	104.0	97.4	92.9	92.9
30°	2675.1	1464.8	261.1	190.3	148.2	119.5	99.6	88.5	81.9	79.7	79.7
32.5°	2770.2	1394.0	223.5	168.2	126.1	101.8	84.1	77.4	70.8	68.6	68.6
35°	2880.8	1332.0	201.3	146.0	110.6	86.3	73.0	66.4	62.0	62.0	62.0
37.5°	3007.0	1267.8	181.4	128.3	95.1	73.0	62.0	59.7	57.5	55.3	55.3
40°	3144.1	1199.2	163.7	112.8	81.9	62.0	53.1	53.1	50.9	50.9	50.9
42.5°	3299.0	1139.5	148.2	99.6	70.8	53.1	46.5	46.5	44.3	44.3	44.3
45°	3467.2	1084.2	135.0	88.5	62.0	46.5	42.0	39.8	37.6	37.6	37.6
47.5°	3666.3	1053.2	123.9	77.4	53.1	39.8	35.4	33.2	31.0	28.8	28.8
50°	3920.8	1066.5	112.8	64.2	46.5	33.2	28.8	26.6	24.3	22.1	22.1
52.5°	4122.1	1059.8	97.4	55.3	37.6	26.6	22.1	19.9	17.7	15.5	15.5
55°	4268.2	1033.3	84.1	46.5	28.8	22.1	17.7	13.3	11.1	11.1	11.1
57.5°	4412.0	1006.7	70.8	37.6	22.1	15.5	11.1	8.9	8.9	8.9	8.9
60°	4635.5	969.1	62.0	31.0	17.7	11.1	6.6	6.6	4.4	4.4	4.4
62.5°	4907.6	922.7	50.9	26.6	13.3	8.9	4.4	4.4	0.0	0.0	0.0
65°	5206.3	840.8	42.0	19.9	11.1	6.6	4.4	0.0	0.0	0.0	0.0
67.5°	5137.7	674.9	35.4	13.3	8.9	4.4	2.2	0.0	0.0	0.0	0.0
70°	4544.7	455.8	28.8	11.1	6.6	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	3560.1	269.9	19.9	8.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	2279.0	135.0	13.3	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	763.4	66.4	8.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	108.4	22.1	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.3	8.9	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	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)