

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: P400344

Luminaire Tested: **ARCH-L-PA3-270-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400344
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-PA3-270-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA 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: 23555 lumens
Efficiency: N/A
Efficacy: 86.3 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

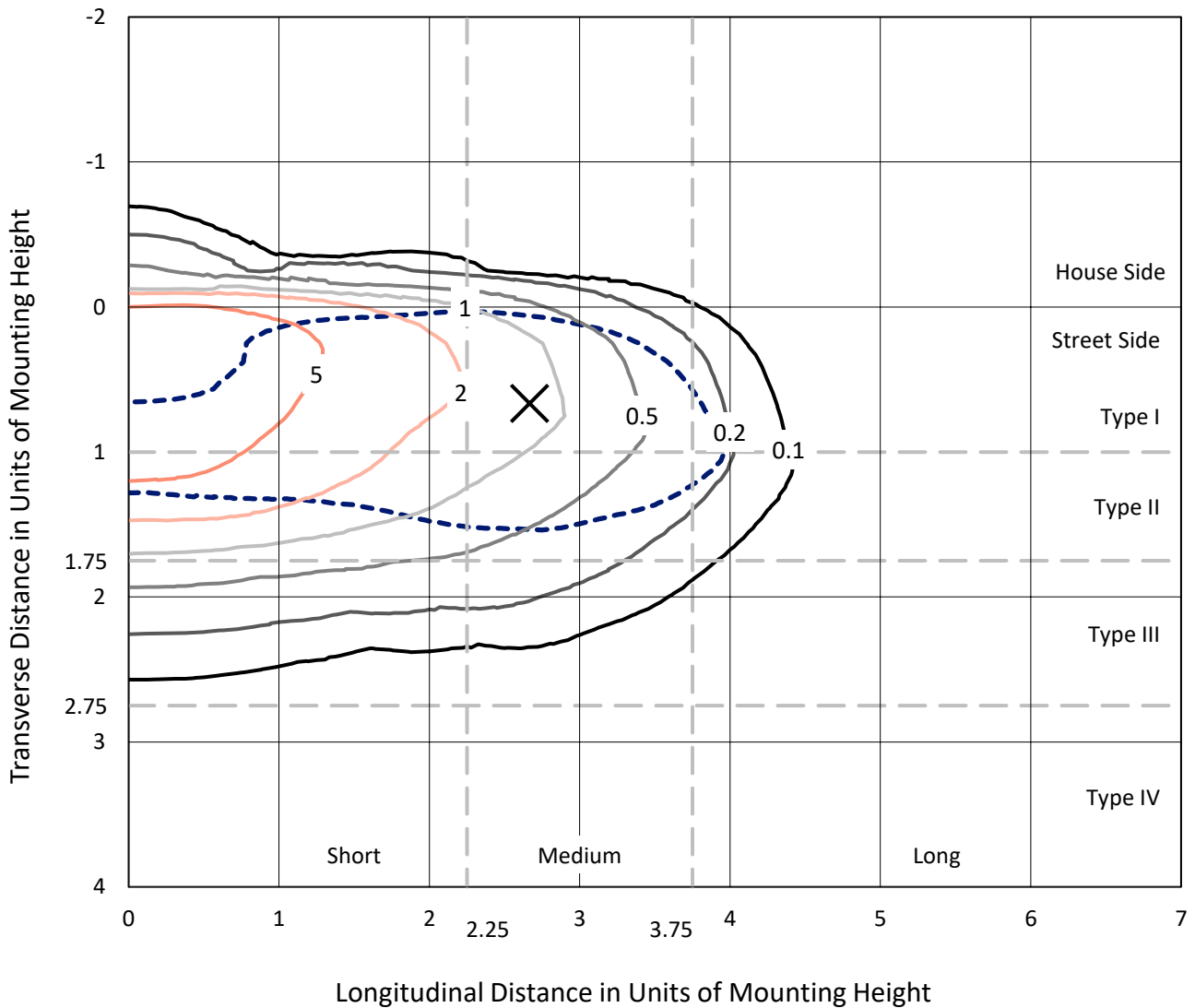
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

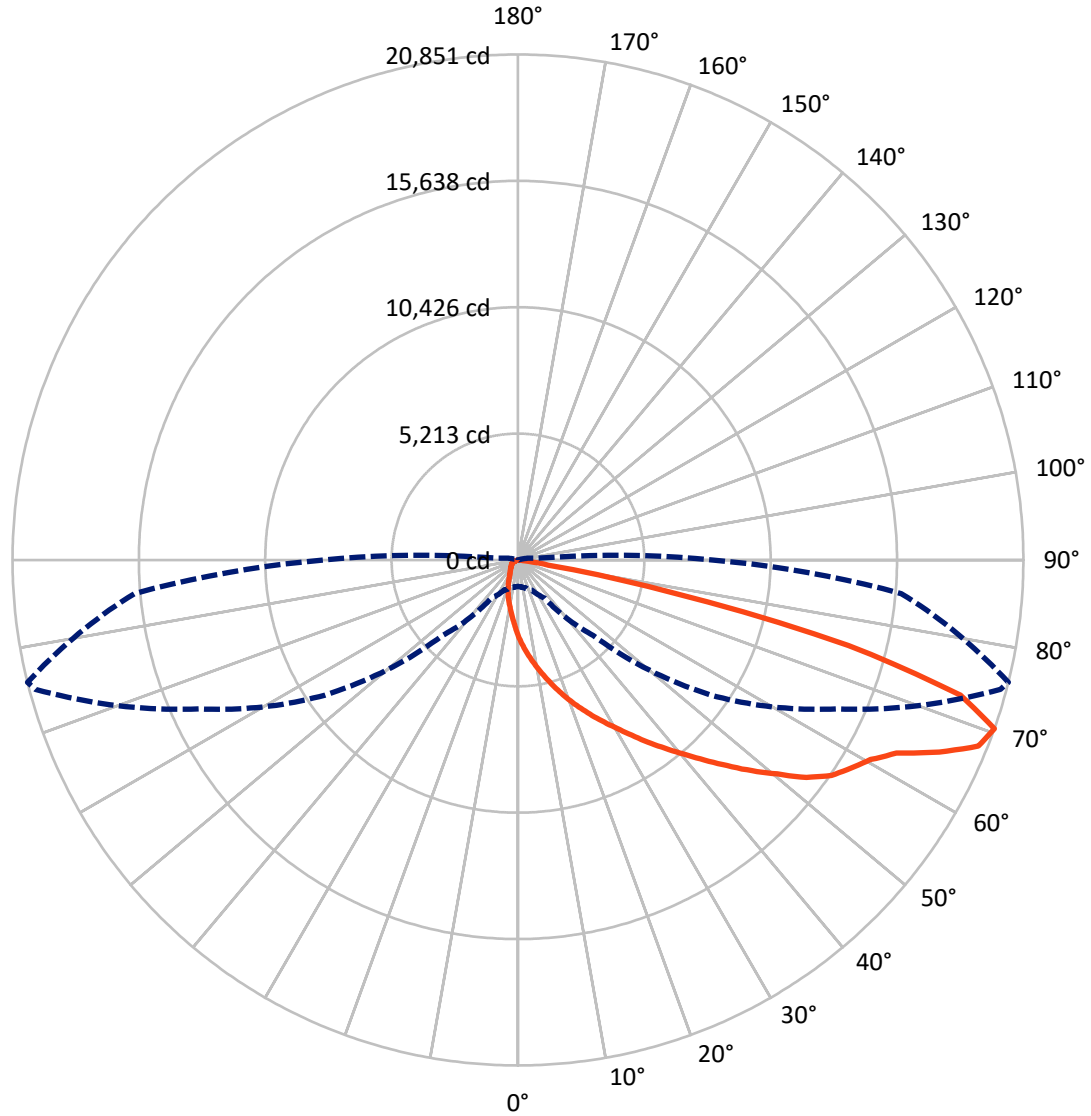
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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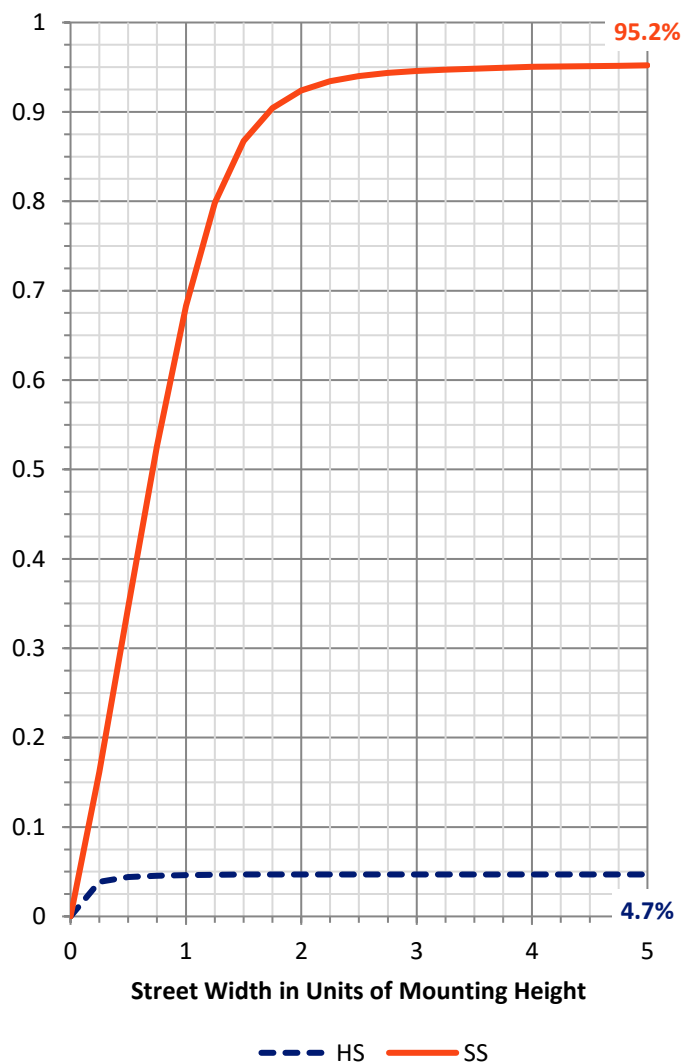
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.9	0.0	1110.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22444.1	0.0	22444.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	23555.0	0.0	23555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.3
10°-20°	958.7	4.1
20°-30°	1785.4	7.6
30°-40°	3158.0	13.4
40°-50°	4829.3	20.5
50°-60°	5475.3	23.2
60°-70°	4693.7	19.9
70°-80°	2273.3	9.7
80°-90°	84.3	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°	23555.0	100.0
0°-180°	23555.0	100.0

Coefficient of Utilization

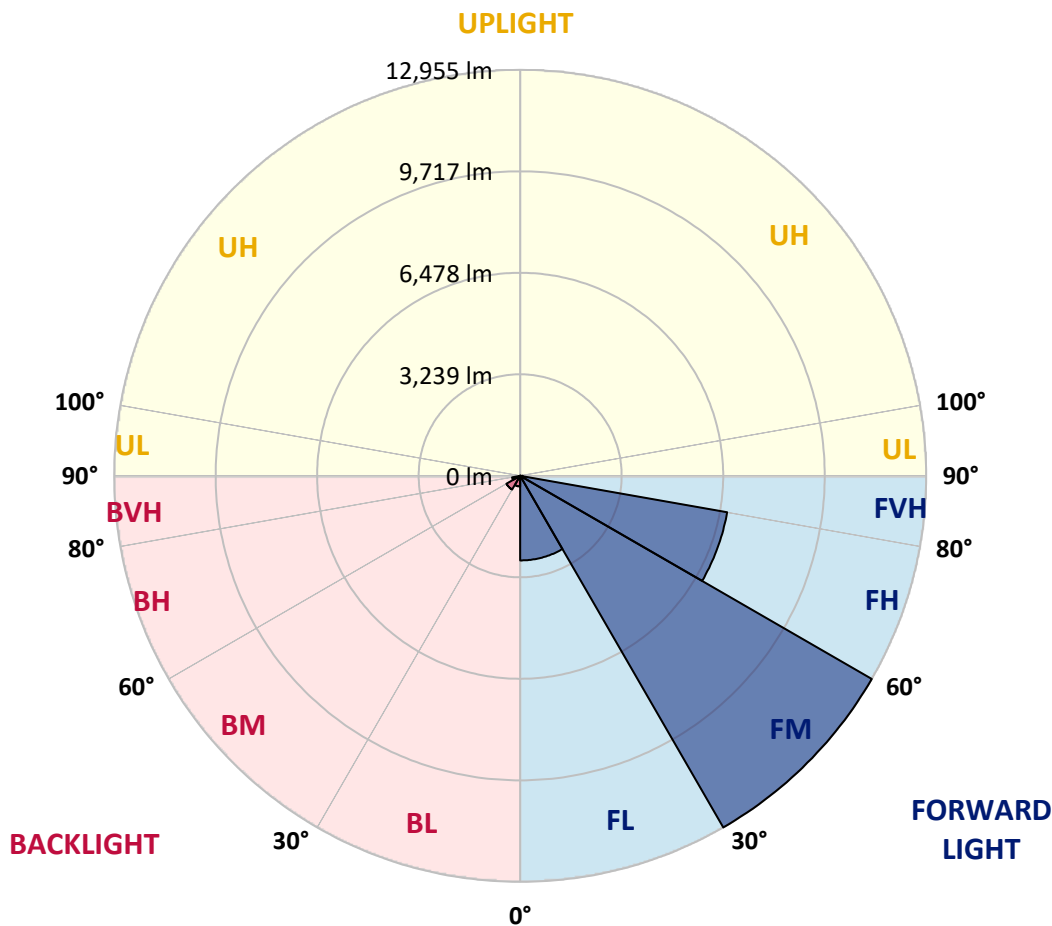


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2700.3	11.5			
FM (30°-60°)	12955.5	55.0			
FH (60°-80°)	6705.4	28.5			G3/7500
FVH (80°-90°)	82.9	0.4			G1/100
BL (0°-30°)	340.8	1.4	B1/500		
BM (30°-60°)	507.1	2.2	B1/1000		
BH (60°-80°)	261.6	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°	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0
2.5°	4309.9	4286.3	4262.8	4172.6	4090.3	4015.7	3874.6	3690.3	3525.5	3490.2	3298.1
5°	5062.8	5035.4	5000.1	4909.9	4804.0	4678.5	4470.7	4188.3	3898.1	3835.4	3478.5
7.5°	5572.6	5549.1	5498.1	5455.0	5349.1	5227.5	4996.2	4666.7	4266.7	4188.3	3686.3
10°	5921.7	5906.0	5898.1	5862.8	5784.4	5686.4	5455.0	5109.9	4639.3	4549.1	3905.9
12.5°	6047.1	6047.1	6086.4	6145.2	6157.0	6125.6	5913.8	5568.7	5031.4	4937.3	4164.8
15°	5878.5	5898.1	5984.4	6172.6	6368.7	6498.1	6364.8	6043.2	5462.8	5360.9	4470.7
17.5°	5831.5	5851.1	5909.9	6074.6	6337.3	6682.5	6749.1	6502.1	5870.7	5784.4	4784.4
20°	5964.8	5984.4	6035.4	6176.6	6376.6	6725.6	7004.0	6945.2	6302.1	6211.9	5102.0
22.5°	6282.4	6294.2	6294.2	6404.0	6580.5	6839.3	7164.8	7364.8	6745.2	6647.2	5415.8
25°	6964.8	6941.3	6847.2	6792.3	6906.0	7117.8	7368.7	7733.4	7239.3	7106.0	5753.0
27.5°	7858.9	7937.4	7709.9	7447.2	7360.9	7482.5	7655.0	8058.9	7717.8	7576.6	6058.9
30°	9070.7	9039.4	8741.3	8364.8	7992.3	7949.1	8008.0	8337.4	8196.2	8062.9	6400.1
32.5°	10066.8	10125.6	9811.9	9353.1	8796.2	8533.5	8470.7	8670.7	8706.0	8619.7	6804.0
35°	11090.4	11153.1	10847.2	10337.4	9674.7	9235.4	9055.0	9082.5	9337.4	9227.6	7227.6
37.5°	12008.0	12062.9	11761.0	11239.4	10576.6	10039.4	9780.5	9568.8	9949.2	9851.1	7674.6
40°	12706.1	12713.9	12510.0	12043.3	11415.9	10859.0	10564.9	10149.2	10596.2	10529.6	8141.3
42.5°	13200.2	13215.9	13066.9	12666.9	12086.5	11568.8	11329.6	10835.5	11341.3	11282.5	8682.5
45°	13431.6	13459.0	13443.3	13074.7	12592.3	12145.3	12066.8	11564.9	12157.0	12102.1	9306.0
47.5°	13212.0	13212.0	13412.0	13361.0	12917.8	12619.8	12710.0	12325.7	13043.3	12992.3	9941.3
50°	12298.2	12310.0	12717.8	13302.2	13043.3	12976.7	13259.0	13070.8	13847.3	13878.6	10702.1
52.5°	9898.2	9878.6	11255.1	12376.7	12957.1	13137.5	13764.9	13831.6	14812.0	14906.1	11459.0
55°	7396.2	7384.4	8702.1	10737.4	12353.1	13055.1	14047.3	14510.0	15635.5	15694.4	12023.7
57.5°	5855.0	5823.6	6549.1	8655.0	10988.4	12686.5	14059.0	14639.4	16094.4	16196.3	12572.7
60°	4502.0	4474.6	5015.8	6439.3	9055.0	11706.1	13721.8	14647.3	16537.5	16717.9	13310.0
62.5°	3219.7	3251.0	3666.7	4619.7	6964.8	10321.7	13282.6	14757.1	17325.7	17529.7	14357.1
65°	2172.6	2156.9	2502.0	3145.1	4953.0	8458.9	12608.0	14988.5	18745.4	19102.2	15612.0
67.5°	1509.8	1521.6	1678.5	2047.1	3145.1	6494.2	11486.4	15117.9	20212.1	20490.5	16490.4
70°	1090.2	1105.9	1192.2	1376.5	1921.6	4404.0	9709.9	14525.7	20608.1	20851.3	15878.7
72.5°	717.7	749.0	878.4	976.5	1227.5	2756.9	7153.0	12513.9	18902.2	19082.6	13321.8
75°	388.2	396.1	564.7	729.4	874.5	1717.7	4266.7	8439.3	14141.4	14082.6	8784.4
77.5°	302.0	313.7	349.0	521.6	588.2	945.1	1686.3	3811.8	6698.1	6517.7	2996.1
80°	184.3	192.2	243.1	309.8	411.8	549.0	494.1	1035.3	1360.8	1274.5	439.2
82.5°	109.8	117.6	145.1	258.8	325.5	258.8	172.6	251.0	254.9	251.0	109.8
85°	19.6	19.6	102.0	180.4	172.6	74.5	102.0	82.4	74.5	78.4	23.5
87.5°	0.0	0.0	39.2	54.9	78.4	27.5	39.2	19.6	19.6	19.6	11.8
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°	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0
2.5°	3180.4	3047.1	2772.6	2533.4	2294.2	2117.7	1984.3	1847.1	1800.0	1741.2	1709.8
5°	3235.3	2972.6	2427.5	1992.2	1623.6	1341.2	1160.8	1051.0	980.4	929.4	917.7
7.5°	3317.7	2913.8	2149.1	1560.8	1156.9	874.5	725.5	651.0	611.8	588.2	580.4
10°	3415.7	2862.8	1874.5	1215.7	815.7	615.7	533.3	502.0	486.3	478.4	474.5
12.5°	3553.0	2843.2	1643.2	937.3	615.7	505.9	462.8	443.1	431.4	419.6	415.7
15°	3733.4	2851.0	1431.4	725.5	509.8	451.0	415.7	396.1	380.4	368.6	368.6
17.5°	3921.6	2862.8	1223.5	588.2	462.8	411.8	372.6	345.1	333.3	321.6	317.7
20°	4098.1	2858.9	1023.5	502.0	419.6	368.6	329.4	302.0	282.4	270.6	270.6
22.5°	4266.7	2835.3	835.3	451.0	384.3	325.5	282.4	254.9	239.2	227.5	227.5
25°	4447.1	2788.3	682.4	411.8	341.2	286.3	243.1	215.7	203.9	192.2	192.2
27.5°	4588.3	2709.8	556.9	376.5	302.0	247.1	207.8	184.3	172.6	164.7	164.7
30°	4741.2	2596.1	462.8	337.3	262.7	211.8	176.5	156.9	145.1	141.2	141.2
32.5°	4909.9	2470.6	396.1	298.0	223.5	180.4	149.0	137.3	125.5	121.6	121.6
35°	5106.0	2360.8	356.9	258.8	196.1	152.9	129.4	117.6	109.8	109.8	109.8
37.5°	5329.5	2247.1	321.6	227.5	168.6	129.4	109.8	105.9	102.0	98.0	98.0
40°	5572.6	2125.5	290.2	200.0	145.1	109.8	94.1	94.1	90.2	90.2	90.2
42.5°	5847.1	2019.6	262.7	176.5	125.5	94.1	82.4	82.4	78.4	78.4	78.4
45°	6145.2	1921.6	239.2	156.9	109.8	82.4	74.5	70.6	66.7	66.7	66.7
47.5°	6498.1	1866.7	219.6	137.3	94.1	70.6	62.7	58.8	54.9	51.0	51.0
50°	6949.1	1890.2	200.0	113.7	82.4	58.8	51.0	47.1	43.1	39.2	39.2
52.5°	7306.0	1878.5	172.6	98.0	66.7	47.1	39.2	35.3	31.4	27.5	27.5
55°	7564.8	1831.4	149.0	82.4	51.0	39.2	31.4	23.5	19.6	19.6	19.6
57.5°	7819.7	1784.3	125.5	66.7	39.2	27.5	19.6	15.7	15.7	15.7	15.7
60°	8215.8	1717.7	109.8	54.9	31.4	19.6	11.8	11.8	7.8	7.8	7.8
62.5°	8698.2	1635.3	90.2	47.1	23.5	15.7	7.8	7.8	0.0	0.0	0.0
65°	9227.6	1490.2	74.5	35.3	19.6	11.8	7.8	0.0	0.0	0.0	0.0
67.5°	9106.0	1196.1	62.7	23.5	15.7	7.8	3.9	0.0	0.0	0.0	0.0
70°	8055.0	807.9	51.0	19.6	11.8	7.8	3.9	0.0	0.0	0.0	0.0
72.5°	6309.9	478.4	35.3	15.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
75°	4039.3	239.2	23.5	11.8	7.8	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	1353.0	117.6	15.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	192.2	39.2	7.8	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.1	15.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	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)