

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: P399840

Luminaire Tested: **ARCH-L-PA3-200-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399840
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-PA3-200-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA 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: 19364 lumens
Efficiency: N/A
Efficacy: 96.3 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

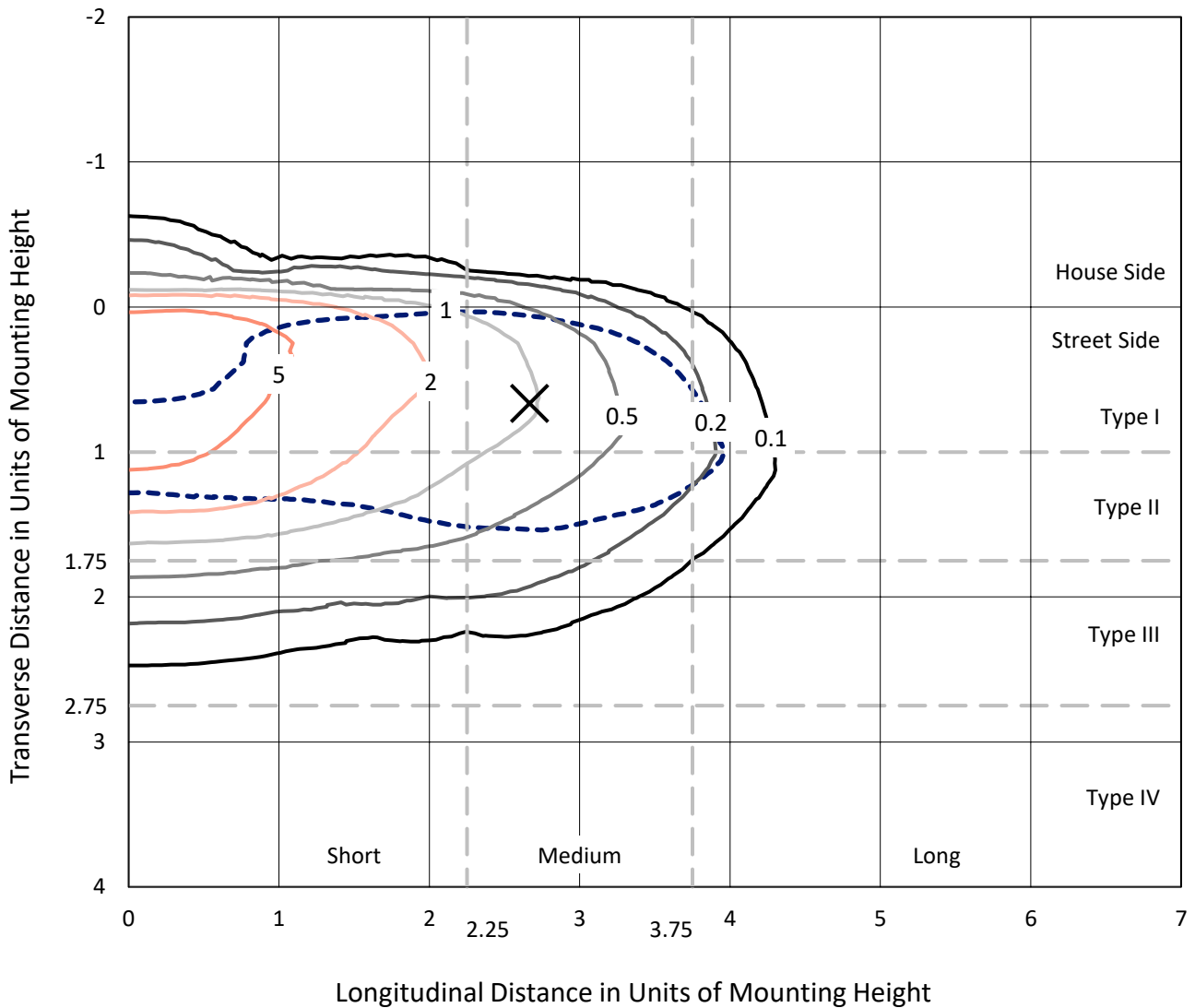
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

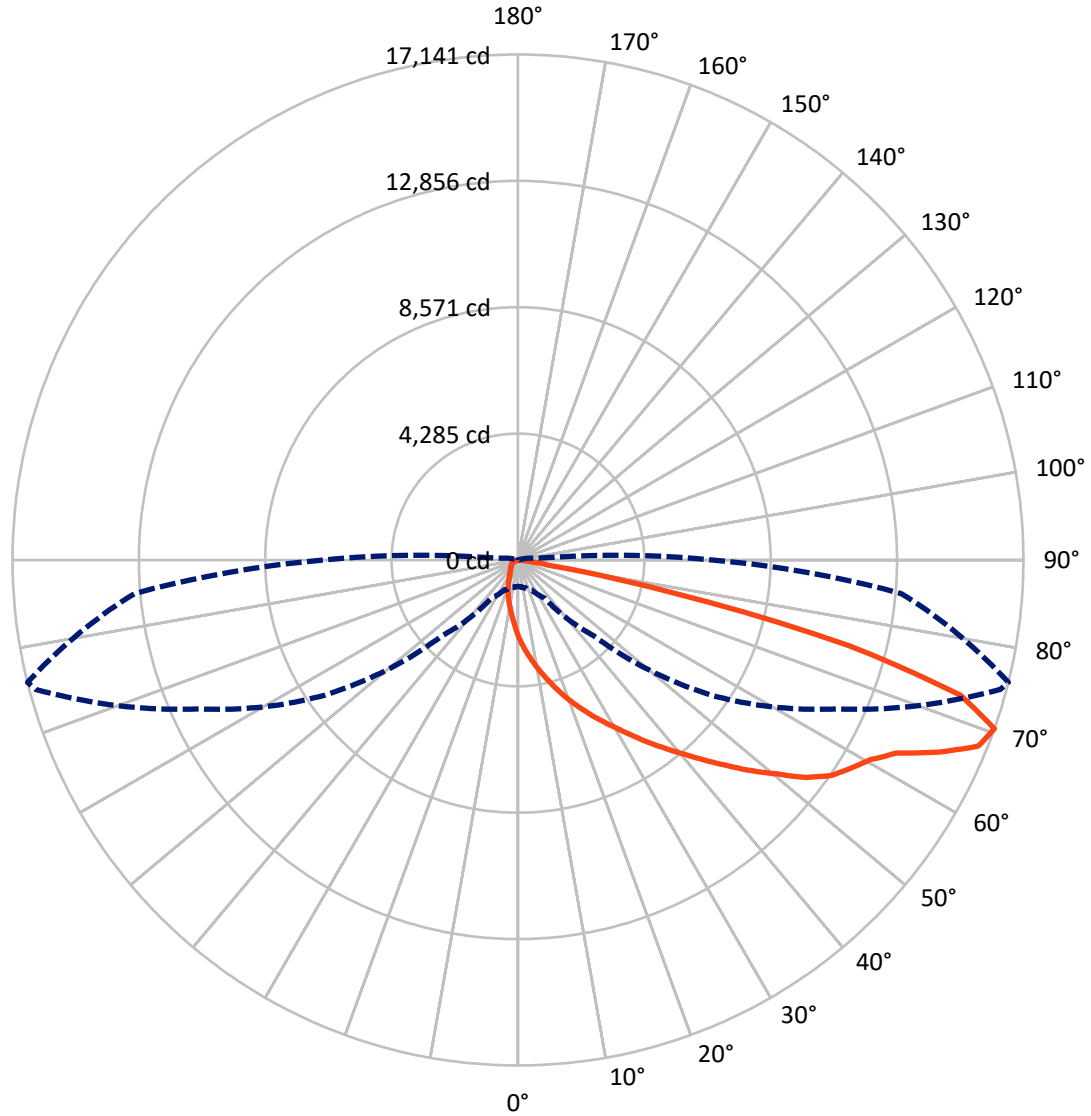
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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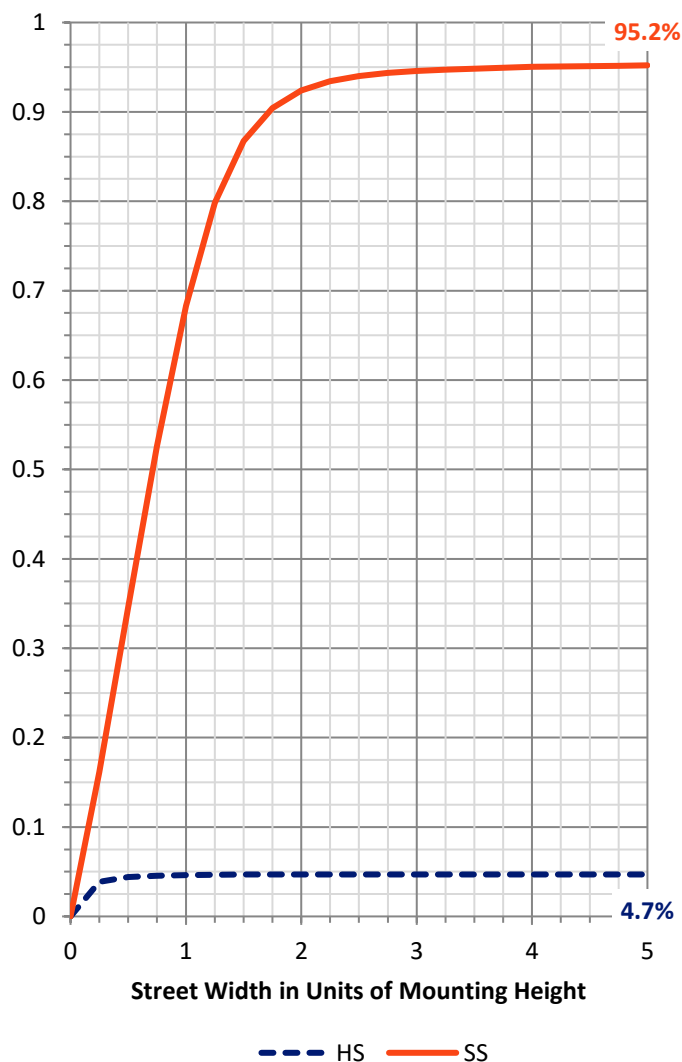
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	913.3	0.0	913.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18450.7	0.0	18450.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	19364.0	0.0	19364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	1.3
10°-20°	788.1	4.1
20°-30°	1467.7	7.6
30°-40°	2596.1	13.4
40°-50°	3970.1	20.5
50°-60°	4501.1	23.2
60°-70°	3858.5	19.9
70°-80°	1868.8	9.7
80°-90°	69.3	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°	19364.0	100.0
0°-180°	19364.0	100.0

Coefficient of Utilization



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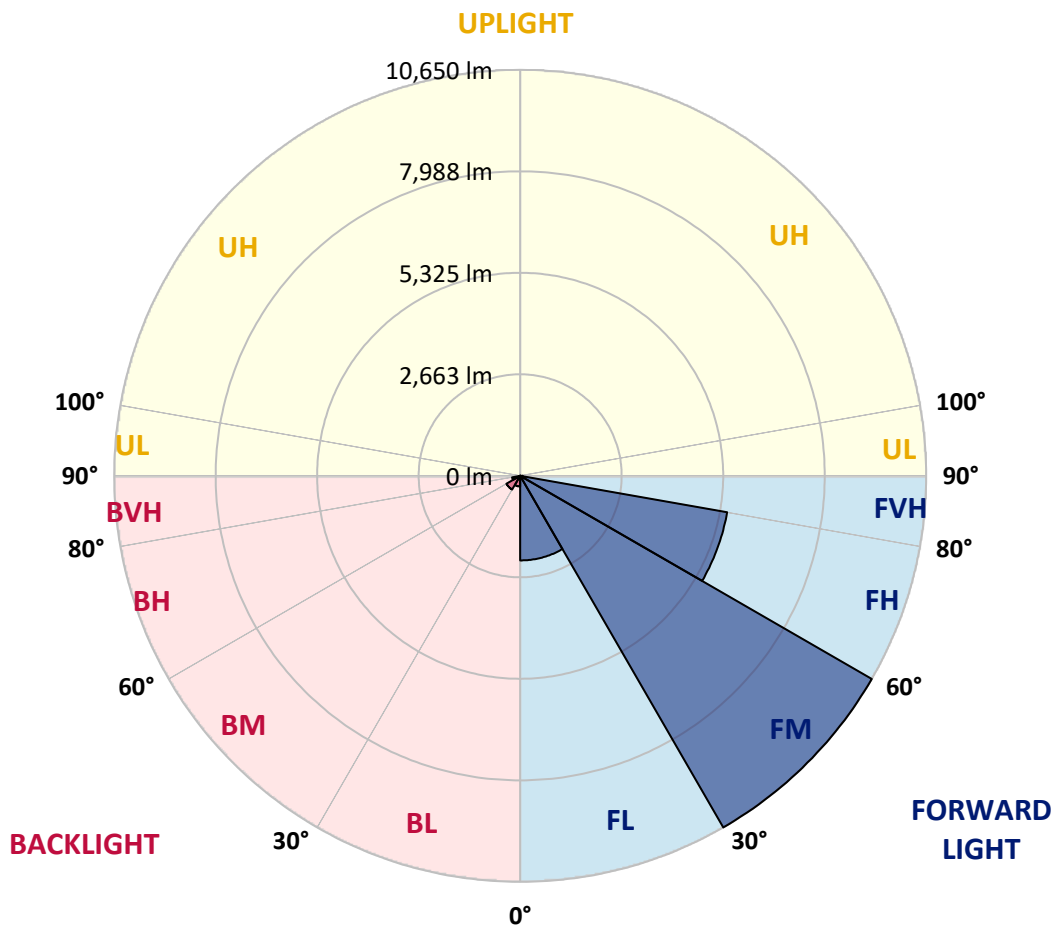
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.9	11.5			
FM (30°-60°)	10650.4	55.0			
FH (60°-80°)	5512.4	28.5			G3/7500
FVH (80°-90°)	68.1	0.4			G1/100
BL (0°-30°)	280.2	1.4	B1/500		
BM (30°-60°)	416.9	2.2	B1/1000		
BH (60°-80°)	215.0	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	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°	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	3543.0	3523.7	3504.4	3430.2	3362.5	3301.2	3185.2	3033.7	2898.3	2869.2	2711.3
5°	4162.0	4139.5	4110.4	4036.3	3949.2	3846.1	3675.2	3443.1	3204.5	3153.0	2859.6
7.5°	4581.1	4561.8	4519.9	4484.4	4397.4	4297.4	4107.2	3836.4	3507.6	3443.1	3030.4
10°	4868.1	4855.2	4848.7	4819.7	4755.2	4674.6	4484.4	4200.7	3813.8	3739.7	3211.0
12.5°	4971.2	4971.2	5003.5	5051.8	5061.5	5035.7	4861.6	4577.9	4136.2	4058.9	3423.8
15°	4832.6	4848.7	4919.6	5074.4	5235.6	5342.0	5232.3	4968.0	4490.9	4407.0	3675.2
17.5°	4793.9	4810.0	4858.4	4993.8	5209.8	5493.5	5548.3	5345.2	4826.1	4755.2	3933.1
20°	4903.5	4919.6	4961.5	5077.6	5242.0	5528.9	5757.8	5709.5	5180.8	5106.6	4194.3
22.5°	5164.6	5174.3	5174.3	5264.6	5409.7	5622.4	5890.0	6054.4	5545.1	5464.5	4452.2
25°	5725.6	5706.3	5628.9	5583.8	5677.2	5851.3	6057.7	6357.5	5951.3	5841.7	4729.4
27.5°	6460.6	6525.1	6338.1	6122.1	6051.2	6151.2	6293.0	6625.1	6344.6	6228.5	4980.9
30°	7456.8	7431.0	7186.0	6876.5	6570.3	6534.8	6583.2	6854.0	6737.9	6628.3	5261.4
32.5°	8275.7	8324.0	8066.1	7688.9	7231.2	7015.2	6963.6	7128.0	7157.0	7086.1	5593.4
35°	9117.1	9168.7	8917.2	8498.1	7953.3	7592.2	7443.9	7466.5	7676.0	7585.8	5941.6
37.5°	9871.5	9916.6	9668.4	9239.6	8694.8	8253.1	8040.3	7866.3	8179.0	8098.4	6309.1
40°	10445.4	10451.8	10284.2	9900.5	9384.7	8926.9	8685.1	8343.4	8710.9	8656.1	6692.8
42.5°	10851.6	10864.5	10742.0	10413.1	9936.0	9510.4	9313.8	8907.6	9323.4	9275.1	7137.7
45°	11041.8	11064.3	11051.4	10748.4	10351.9	9984.3	9919.9	9507.2	9994.0	9948.9	7650.3
47.5°	10861.2	10861.2	11025.7	10983.7	10619.4	10374.4	10448.6	10132.6	10722.6	10680.7	8172.5
50°	10110.1	10119.7	10455.0	10935.4	10722.6	10667.8	10899.9	10745.2	11383.5	11409.3	8798.0
52.5°	8137.1	8120.9	9252.5	10174.6	10651.7	10800.0	11315.8	11370.6	12176.6	12254.0	9420.2
55°	6080.2	6070.6	7153.8	8827.0	10155.2	10732.3	11547.9	11928.3	12853.6	12901.9	9884.4
57.5°	4813.2	4787.5	5383.9	7115.1	9033.3	10429.2	11557.6	12034.7	13230.8	13314.6	10335.7
60°	3701.0	3678.4	4123.3	5293.6	7443.9	9623.3	11280.3	12041.2	13595.1	13743.4	10941.8
62.5°	2646.8	2672.6	3014.3	3797.7	5725.6	8485.2	10919.3	12131.4	14243.1	14410.7	11802.6
65°	1786.0	1773.1	2056.8	2585.5	4071.8	6953.9	10364.8	12321.7	15410.1	15703.5	12834.2
67.5°	1241.2	1250.9	1379.8	1682.9	2585.5	5338.7	9442.7	12428.0	16615.9	16844.7	13556.4
70°	896.2	909.1	980.1	1131.6	1579.7	3620.4	7982.3	11941.2	16941.5	17141.3	13053.5
72.5°	590.0	615.8	722.1	802.7	1009.1	2266.4	5880.3	10287.4	15539.1	15687.4	10951.5
75°	319.2	325.6	464.2	599.6	718.9	1412.1	3507.6	6937.8	11625.3	11576.9	7221.5
77.5°	248.2	257.9	286.9	428.8	483.6	777.0	1386.3	3133.6	5506.4	5358.1	2463.0
80°	151.5	158.0	199.9	254.7	338.5	451.3	406.2	851.1	1118.7	1047.8	361.1
82.5°	90.3	96.7	119.3	212.8	267.6	212.8	141.9	206.3	209.6	206.3	90.3
85°	16.1	16.1	83.8	148.3	141.9	61.3	83.8	67.7	61.3	64.5	19.3
87.5°	0.0	0.0	32.2	45.1	64.5	22.6	32.2	16.1	16.1	16.1	9.7
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°	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2614.6	2505.0	2279.3	2082.6	1886.0	1740.9	1631.3	1518.4	1479.8	1431.4	1405.6
5°	2659.7	2443.7	1995.6	1637.7	1334.7	1102.6	954.3	864.0	806.0	764.1	754.4
7.5°	2727.4	2395.3	1766.7	1283.1	951.0	718.9	596.4	535.2	502.9	483.6	477.1
10°	2808.0	2353.4	1541.0	999.4	670.6	506.1	438.4	412.7	399.8	393.3	390.1
12.5°	2920.8	2337.3	1350.8	770.5	506.1	415.9	380.4	364.3	354.6	345.0	341.7
15°	3069.1	2343.8	1176.7	596.4	419.1	370.7	341.7	325.6	312.7	303.0	303.0
17.5°	3223.9	2353.4	1005.8	483.6	380.4	338.5	306.3	283.7	274.0	264.4	261.1
20°	3368.9	2350.2	841.4	412.7	345.0	303.0	270.8	248.2	232.1	222.4	222.4
22.5°	3507.6	2330.9	686.7	370.7	315.9	267.6	232.1	209.6	196.7	187.0	187.0
25°	3655.9	2292.2	561.0	338.5	280.5	235.3	199.9	177.3	167.6	158.0	158.0
27.5°	3771.9	2227.7	457.8	309.5	248.2	203.1	170.9	151.5	141.9	135.4	135.4
30°	3897.7	2134.2	380.4	277.3	216.0	174.1	145.1	129.0	119.3	116.1	116.1
32.5°	4036.3	2031.0	325.6	245.0	183.8	148.3	122.5	112.8	103.2	99.9	99.9
35°	4197.5	1940.8	293.4	212.8	161.2	125.7	106.4	96.7	90.3	90.3	90.3
37.5°	4381.2	1847.3	264.4	187.0	138.6	106.4	90.3	87.0	83.8	80.6	80.6
40°	4581.1	1747.3	238.6	164.4	119.3	90.3	77.4	77.4	74.1	74.1	74.1
42.5°	4806.8	1660.3	216.0	145.1	103.2	77.4	67.7	67.7	64.5	64.5	64.5
45°	5051.8	1579.7	196.7	129.0	90.3	67.7	61.3	58.0	54.8	54.8	54.8
47.5°	5342.0	1534.6	180.5	112.8	77.4	58.0	51.6	48.4	45.1	41.9	41.9
50°	5712.7	1553.9	164.4	93.5	67.7	48.4	41.9	38.7	35.5	32.2	32.2
52.5°	6006.1	1544.2	141.9	80.6	54.8	38.7	32.2	29.0	25.8	22.6	22.6
55°	6218.9	1505.5	122.5	67.7	41.9	32.2	25.8	19.3	16.1	16.1	16.1
57.5°	6428.4	1466.9	103.2	54.8	32.2	22.6	16.1	12.9	12.9	12.9	12.9
60°	6754.0	1412.1	90.3	45.1	25.8	16.1	9.7	9.7	6.4	6.4	6.4
62.5°	7150.6	1344.4	74.1	38.7	19.3	12.9	6.4	6.4	0.0	0.0	0.0
65°	7585.8	1225.1	61.3	29.0	16.1	9.7	6.4	0.0	0.0	0.0	0.0
67.5°	7485.8	983.3	51.6	19.3	12.9	6.4	3.2	0.0	0.0	0.0	0.0
70°	6621.8	664.1	41.9	16.1	9.7	6.4	3.2	0.0	0.0	0.0	0.0
72.5°	5187.2	393.3	29.0	12.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0
75°	3320.6	196.7	19.3	9.7	6.4	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	1112.2	96.7	12.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	158.0	32.2	6.4	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.5	12.9	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	3.2	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)