

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: P399822

Luminaire Tested: **ARCH-L-PA3-190-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399822
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-PA3-190-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 810mA 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: 17551 lumens
Efficiency: N/A
Efficacy: 92.9 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

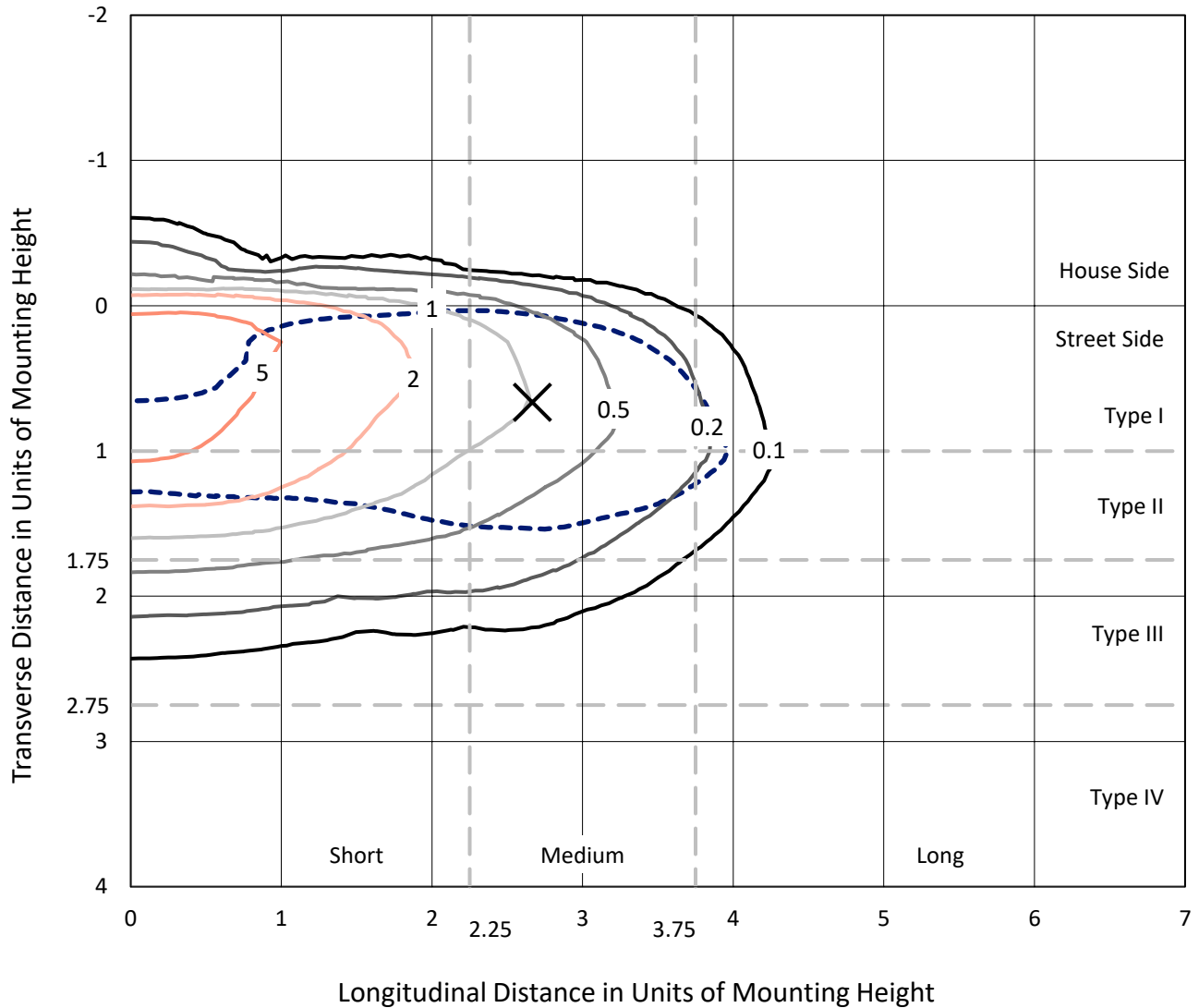
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

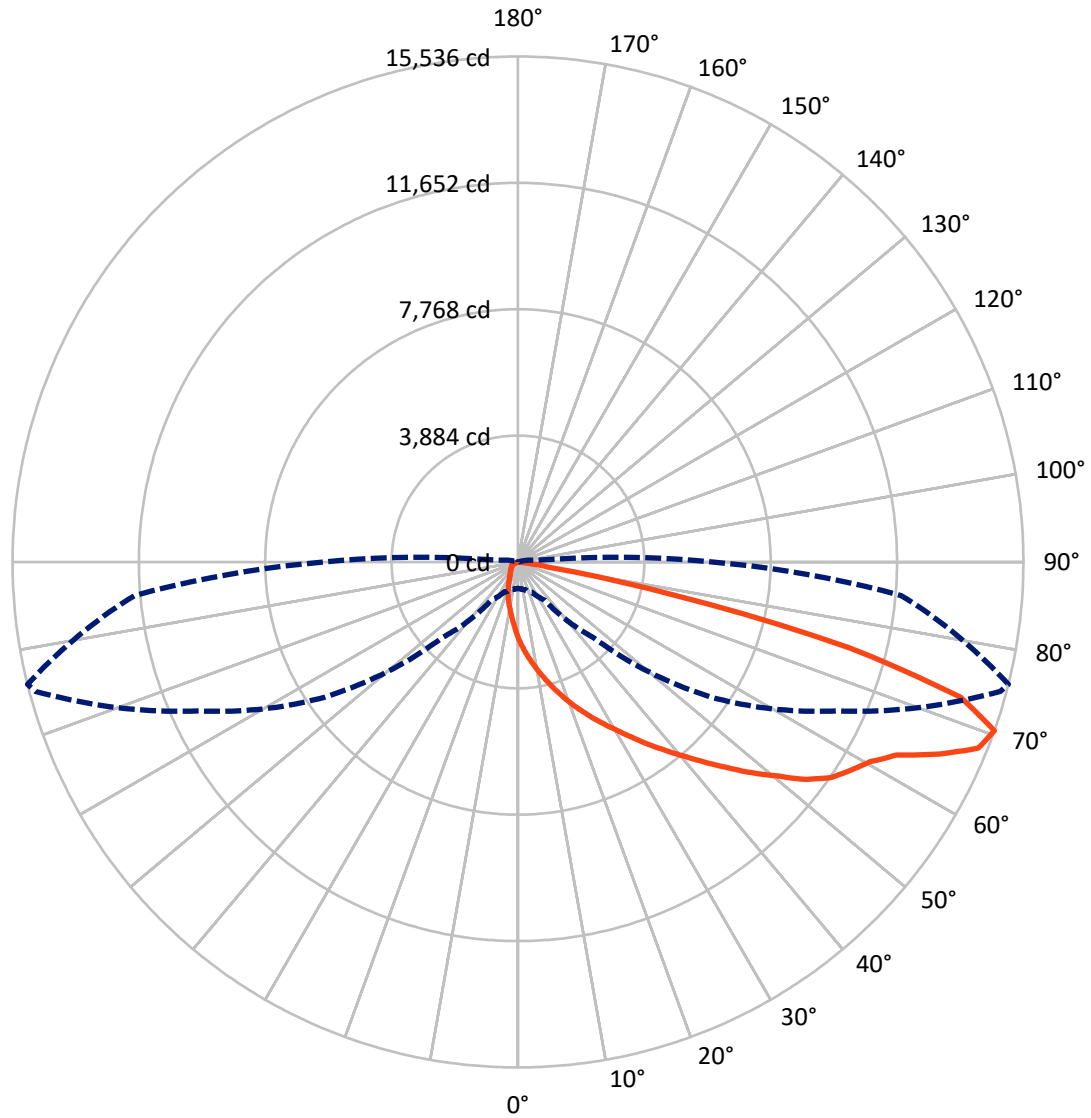
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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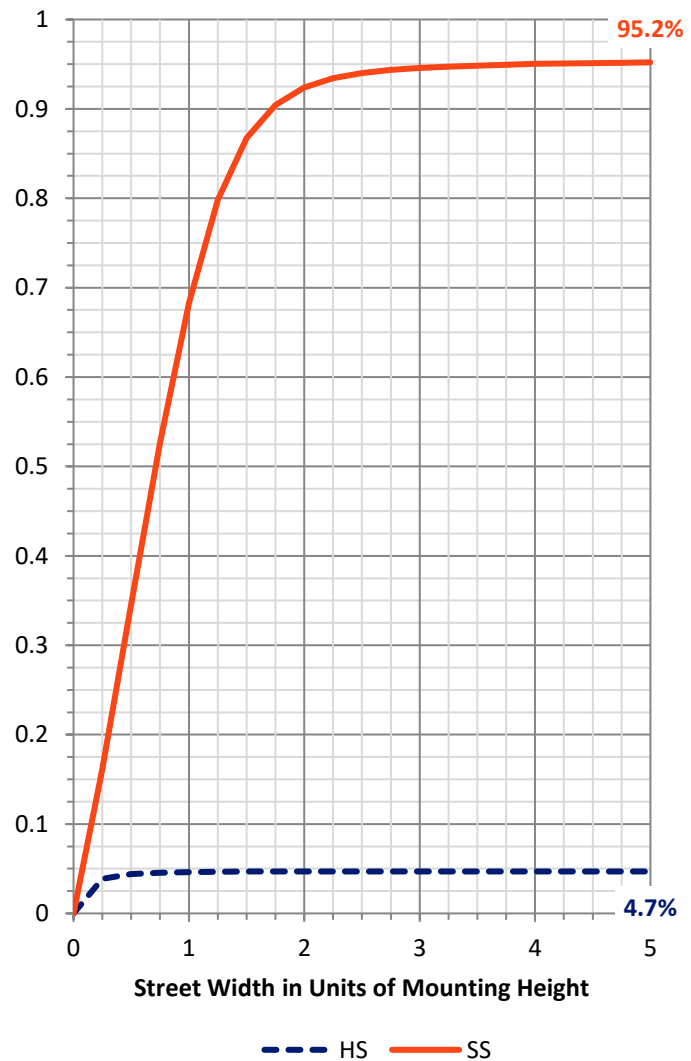
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.8	0.0	827.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16723.2	0.0	16723.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	17551.0	0.0	17551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	1.3
10°-20°	714.3	4.1
20°-30°	1330.3	7.6
30°-40°	2353.0	13.4
40°-50°	3598.4	20.5
50°-60°	4079.7	23.2
60°-70°	3497.3	19.9
70°-80°	1693.9	9.7
80°-90°	62.8	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°	17551.0	100.0
0°-180°	17551.0	100.0

Coefficient of Utilization

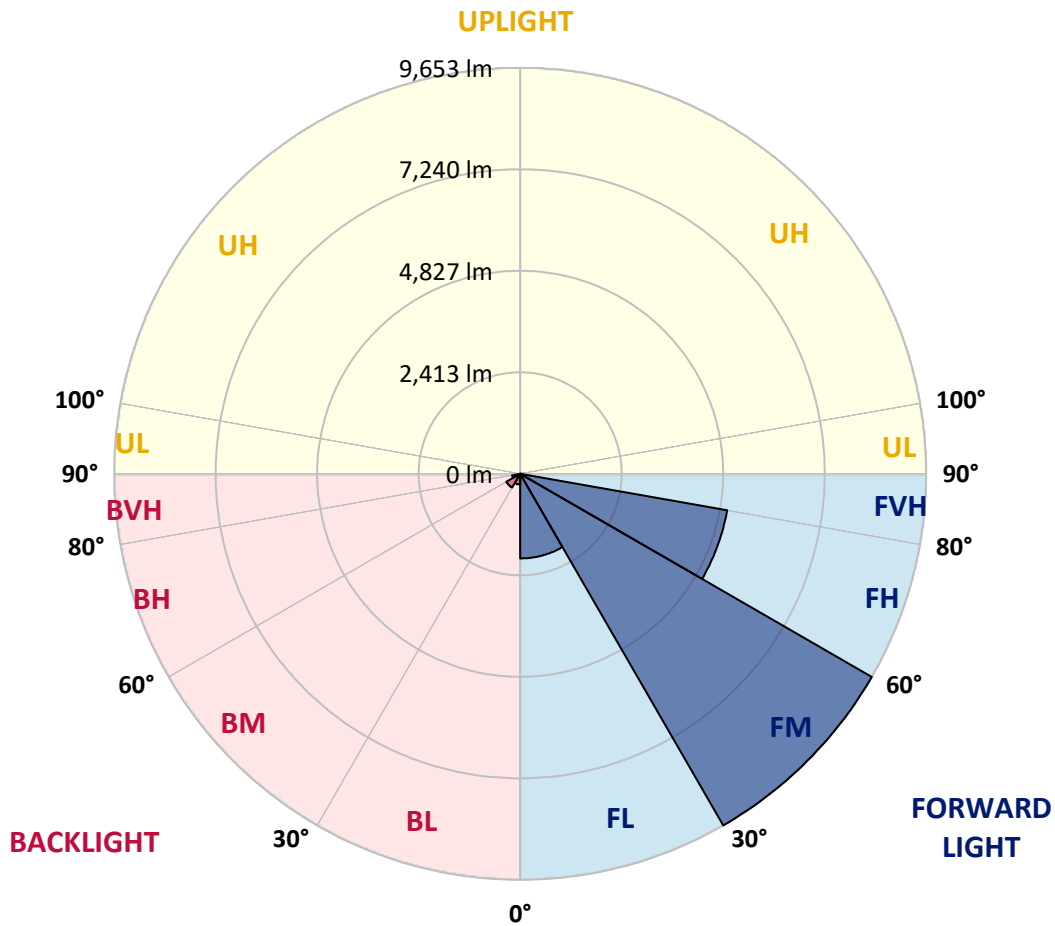


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.0	11.5			
FM (30°-60°)	9653.2	55.0			
FH (60°-80°)	4996.3	28.5			G2/5000
FVH (80°-90°)	61.8	0.4			G1/100
BL (0°-30°)	253.9	1.4	B1/500		
BM (30°-60°)	377.9	2.2	B1/1000		
BH (60°-80°)	194.9	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	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°	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3
2.5°	3211.3	3193.8	3176.2	3109.0	3047.7	2992.2	2887.0	2749.6	2626.9	2600.6	2457.4
5°	3772.3	3751.9	3725.6	3658.4	3579.5	3486.0	3331.1	3120.7	2904.5	2857.7	2591.8
7.5°	4152.2	4134.7	4096.7	4064.5	3985.7	3895.1	3722.7	3477.2	3179.2	3120.7	2746.7
10°	4412.3	4400.6	4394.7	4368.4	4310.0	4236.9	4064.5	3807.4	3456.8	3389.6	2910.3
12.5°	4505.8	4505.8	4535.0	4578.8	4587.6	4564.2	4406.4	4149.3	3749.0	3678.8	3103.2
15°	4380.1	4394.7	4459.0	4599.3	4745.4	4841.8	4742.5	4502.9	4070.4	3994.4	3331.1
17.5°	4345.1	4359.7	4403.5	4526.2	4722.0	4979.1	5028.8	4844.7	4374.3	4310.0	3564.9
20°	4444.4	4459.0	4497.0	4602.2	4751.2	5011.3	5218.7	5174.9	4695.7	4628.5	3801.6
22.5°	4681.1	4689.9	4689.9	4771.7	4903.2	5096.0	5338.6	5487.6	5025.9	4952.8	4035.3
25°	5189.5	5172.0	5101.9	5061.0	5145.7	5303.5	5490.5	5762.2	5394.1	5294.7	4286.6
27.5°	5855.8	5914.2	5744.7	5548.9	5484.7	5575.2	5703.8	6004.8	5750.6	5645.4	4514.5
30°	6758.7	6735.3	6513.2	6232.7	5955.1	5923.0	5966.8	6212.2	6107.0	6007.7	4768.8
32.5°	7500.9	7544.7	7310.9	6969.0	6554.1	6358.3	6311.6	6460.6	6486.9	6422.6	5069.7
35°	8263.5	8310.3	8082.3	7702.5	7208.7	6881.4	6747.0	6767.4	6957.4	6875.5	5385.3
37.5°	8947.3	8988.2	8763.2	8374.5	7880.7	7480.4	7287.5	7129.8	7413.2	7340.1	5718.4
40°	9467.4	9473.2	9321.3	8973.6	8506.0	8091.1	7872.0	7562.2	7895.3	7845.7	6066.1
42.5°	9835.6	9847.2	9736.2	9438.2	9005.7	8620.0	8441.8	8073.6	8450.5	8406.7	6469.4
45°	10008.0	10028.4	10016.7	9742.1	9382.6	9049.5	8991.1	8617.1	9058.3	9017.4	6934.0
47.5°	9844.3	9844.3	9993.4	9955.4	9625.2	9403.1	9470.3	9183.9	9718.7	9680.7	7407.4
50°	9163.5	9172.3	9476.2	9911.5	9718.7	9669.0	9879.4	9739.1	10317.7	10341.1	7974.2
52.5°	7375.2	7360.6	8386.2	9221.9	9654.4	9788.8	10256.3	10306.0	11036.5	11106.6	8538.2
55°	5511.0	5502.2	6484.0	8000.5	9204.4	9727.4	10466.7	10811.5	11650.1	11694.0	8959.0
57.5°	4362.6	4339.2	4879.8	6448.9	8187.5	9452.8	10475.5	10907.9	11992.0	12068.0	9368.0
60°	3354.5	3334.0	3737.3	4798.0	6747.0	8722.3	10224.2	10913.8	12322.2	12456.6	9917.4
62.5°	2399.0	2422.4	2732.1	3442.2	5189.5	7690.8	9896.9	10995.6	12909.5	13061.5	10697.6
65°	1618.8	1607.1	1864.3	2343.5	3690.5	6302.8	9394.3	11168.0	13967.3	14233.2	11632.6
67.5°	1125.0	1133.7	1250.6	1525.3	2343.5	4838.9	8558.6	11264.4	15060.2	15267.6	12287.1
70°	812.3	824.0	888.3	1025.6	1431.8	3281.4	7235.0	10823.2	15355.3	15536.4	11831.3
72.5°	534.7	558.1	654.5	727.6	914.6	2054.2	5329.8	9324.2	14084.2	14218.6	9926.1
75°	289.3	295.1	420.8	543.5	651.6	1279.9	3179.2	6288.2	10536.8	10493.0	6545.4
77.5°	225.0	233.8	260.1	388.6	438.3	704.2	1256.5	2840.2	4990.8	4856.4	2232.4
80°	137.3	143.2	181.2	230.8	306.8	409.1	368.2	771.4	1013.9	949.7	327.3
82.5°	81.8	87.7	108.1	192.9	242.5	192.9	128.6	187.0	189.9	187.0	81.8
85°	14.6	14.6	76.0	134.4	128.6	55.5	76.0	61.4	55.5	58.4	17.5
87.5°	0.0	0.0	29.2	40.9	58.4	20.5	29.2	14.6	14.6	14.6	8.8
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°	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3
2.5°	2369.8	2270.4	2065.9	1887.6	1709.4	1577.9	1478.5	1376.3	1341.2	1297.4	1274.0
5°	2410.7	2214.9	1808.7	1484.4	1209.7	999.3	864.9	783.1	730.5	692.5	683.8
7.5°	2472.0	2171.1	1601.3	1163.0	862.0	651.6	540.6	485.1	455.8	438.3	432.5
10°	2545.1	2133.1	1396.7	905.8	607.8	458.8	397.4	374.0	362.3	356.5	353.6
12.5°	2647.4	2118.5	1224.3	698.4	458.8	376.9	344.8	330.2	321.4	312.7	309.7
15°	2781.8	2124.3	1066.5	540.6	379.9	336.0	309.7	295.1	283.4	274.7	274.7
17.5°	2922.0	2133.1	911.7	438.3	344.8	306.8	277.6	257.1	248.4	239.6	236.7
20°	3053.5	2130.2	762.7	374.0	312.7	274.7	245.5	225.0	210.4	201.6	201.6
22.5°	3179.2	2112.6	622.4	336.0	286.4	242.5	210.4	189.9	178.2	169.5	169.5
25°	3313.6	2077.6	508.4	306.8	254.2	213.3	181.2	160.7	151.9	143.2	143.2
27.5°	3418.8	2019.1	414.9	280.5	225.0	184.1	154.9	137.3	128.6	122.7	122.7
30°	3532.7	1934.4	344.8	251.3	195.8	157.8	131.5	116.9	108.1	105.2	105.2
32.5°	3658.4	1840.9	295.1	222.1	166.6	134.4	111.0	102.3	93.5	90.6	90.6
35°	3804.5	1759.1	265.9	192.9	146.1	114.0	96.4	87.7	81.8	81.8	81.8
37.5°	3971.0	1674.3	239.6	169.5	125.6	96.4	81.8	78.9	76.0	73.1	73.1
40°	4152.2	1583.7	216.2	149.0	108.1	81.8	70.1	70.1	67.2	67.2	67.2
42.5°	4356.8	1504.8	195.8	131.5	93.5	70.1	61.4	61.4	58.4	58.4	58.4
45°	4578.8	1431.8	178.2	116.9	81.8	61.4	55.5	52.6	49.7	49.7	49.7
47.5°	4841.8	1390.9	163.6	102.3	70.1	52.6	46.8	43.8	40.9	38.0	38.0
50°	5177.8	1408.4	149.0	84.7	61.4	43.8	38.0	35.1	32.1	29.2	29.2
52.5°	5443.7	1399.7	128.6	73.1	49.7	35.1	29.2	26.3	23.4	20.5	20.5
55°	5636.6	1364.6	111.0	61.4	38.0	29.2	23.4	17.5	14.6	14.6	14.6
57.5°	5826.5	1329.5	93.5	49.7	29.2	20.5	14.6	11.7	11.7	11.7	11.7
60°	6121.7	1279.9	81.8	40.9	23.4	14.6	8.8	8.8	5.8	5.8	5.8
62.5°	6481.1	1218.5	67.2	35.1	17.5	11.7	5.8	5.8	0.0	0.0	0.0
65°	6875.5	1110.4	55.5	26.3	14.6	8.8	5.8	0.0	0.0	0.0	0.0
67.5°	6785.0	891.2	46.8	17.5	11.7	5.8	2.9	0.0	0.0	0.0	0.0
70°	6001.9	601.9	38.0	14.6	8.8	5.8	2.9	0.0	0.0	0.0	0.0
72.5°	4701.6	356.5	26.3	11.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
75°	3009.7	178.2	17.5	8.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	1008.1	87.7	11.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	143.2	29.2	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.1	11.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	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)