

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: P399552

Luminaire Tested: **ARCH-L-PA3-160-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399552
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-PA3-160-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 705mA 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: 16634 lumens
Efficiency: N/A
Efficacy: 102.7 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

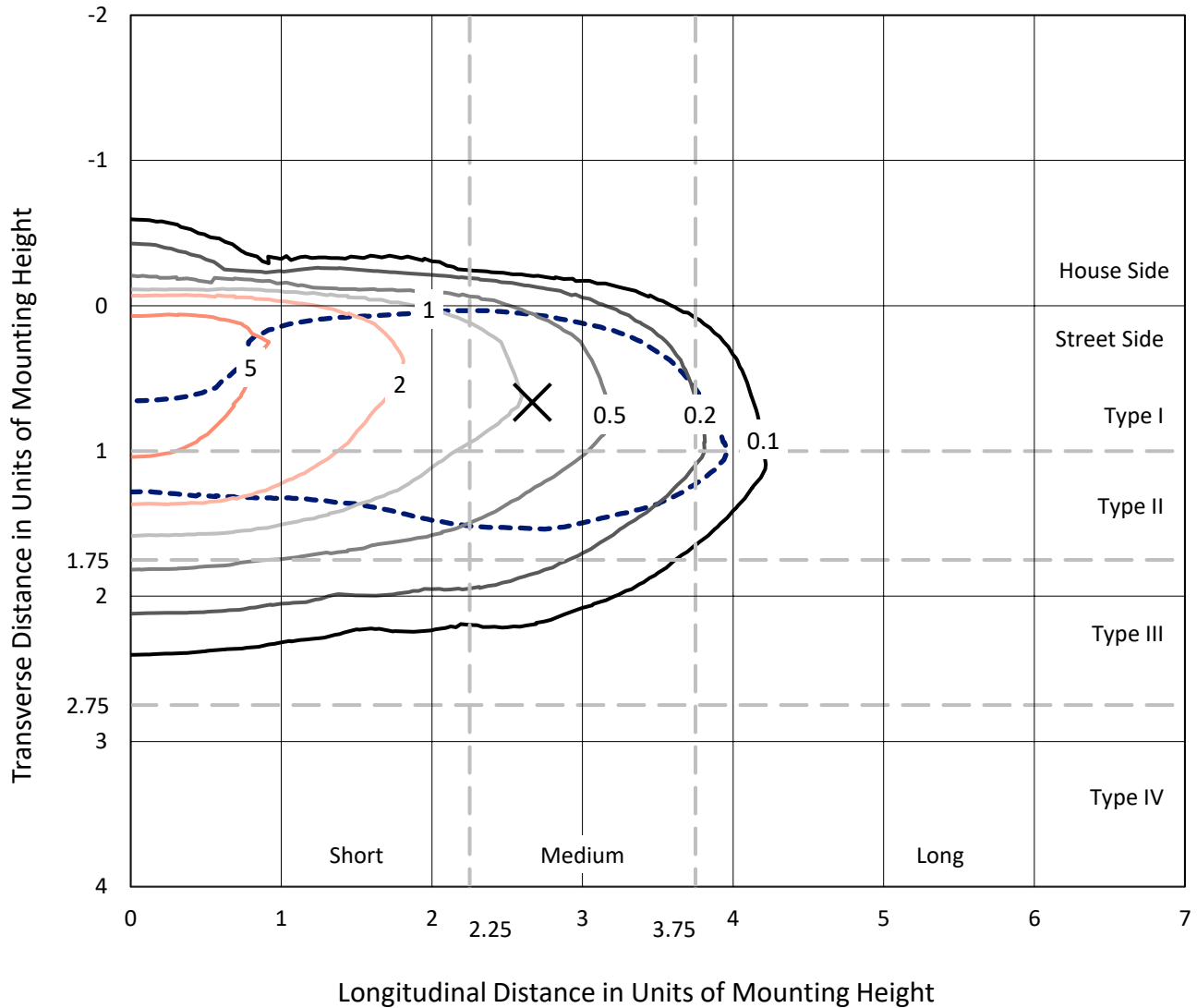
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

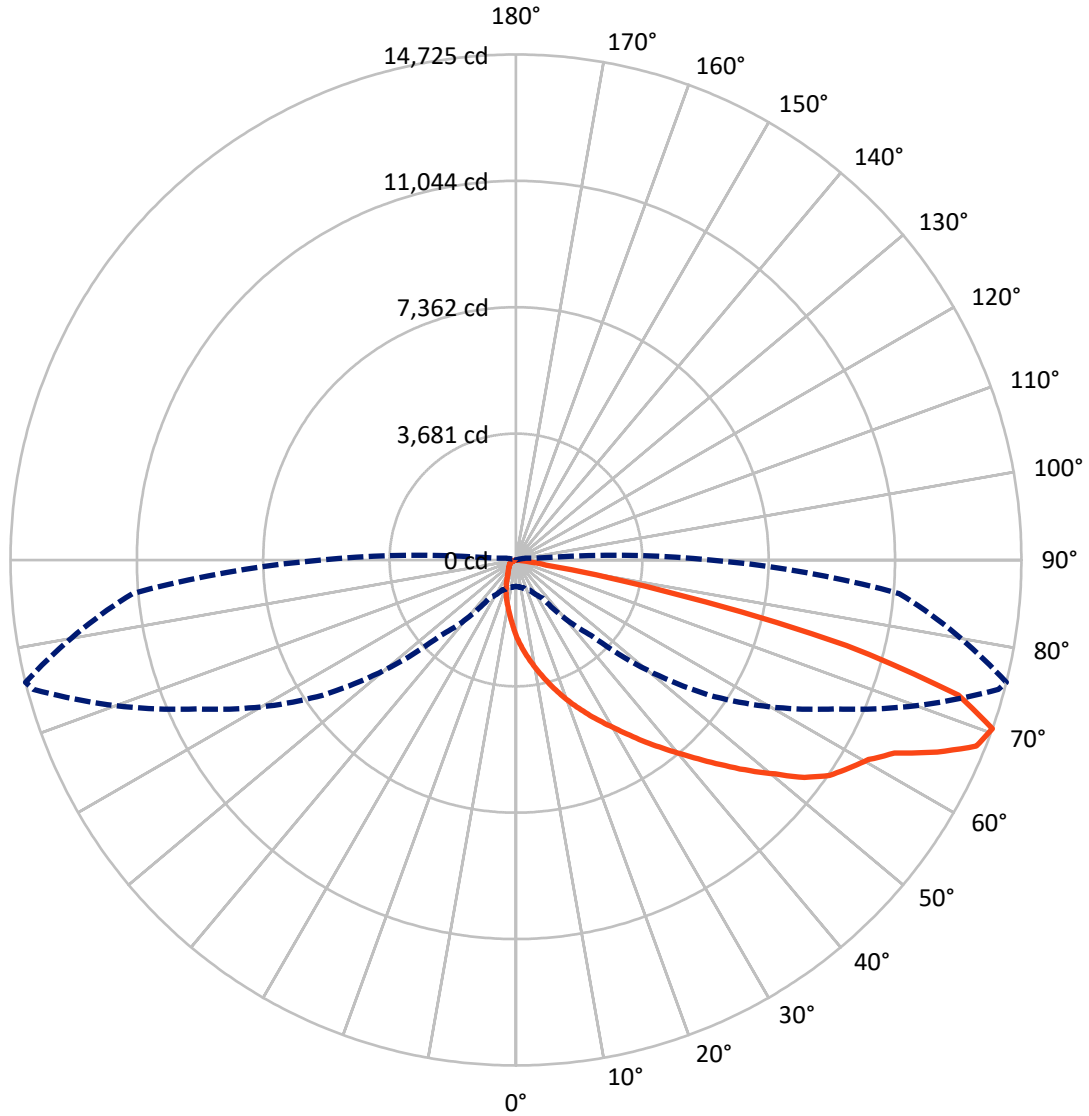
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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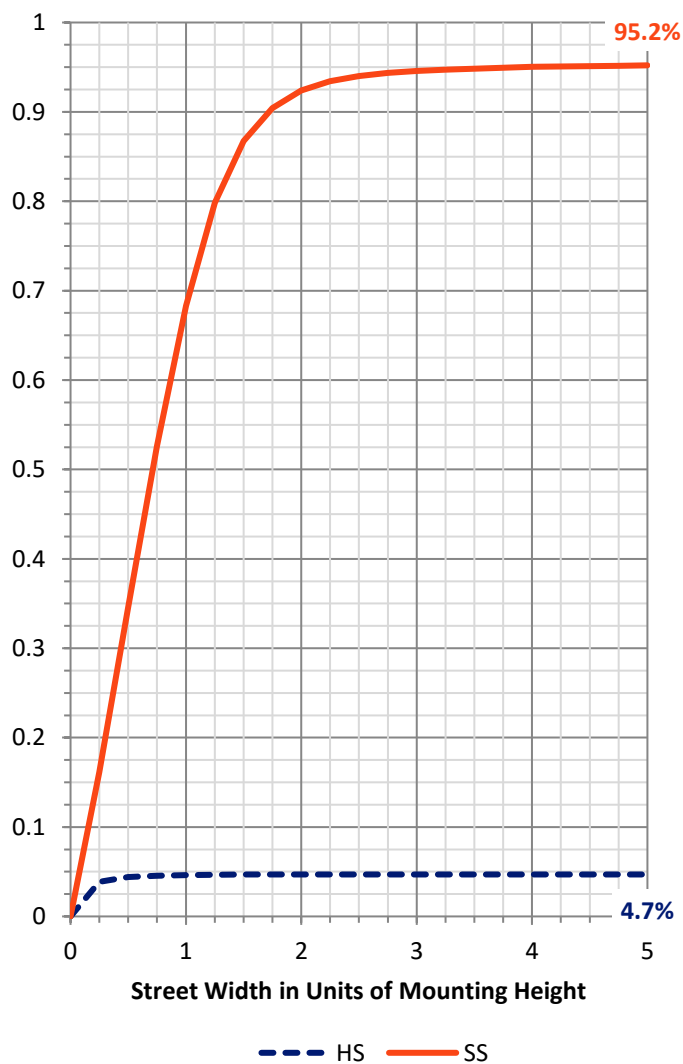
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	784.5	0.0	784.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	15849.5	0.0	15849.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	16634.0	0.0	16634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.3
10°-20°	677.0	4.1
20°-30°	1260.8	7.6
30°-40°	2230.1	13.4
40°-50°	3410.3	20.5
50°-60°	3866.5	23.2
60°-70°	3314.6	19.9
70°-80°	1605.4	9.7
80°-90°	59.6	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°	16634.0	100.0
0°-180°	16634.0	100.0

Coefficient of Utilization

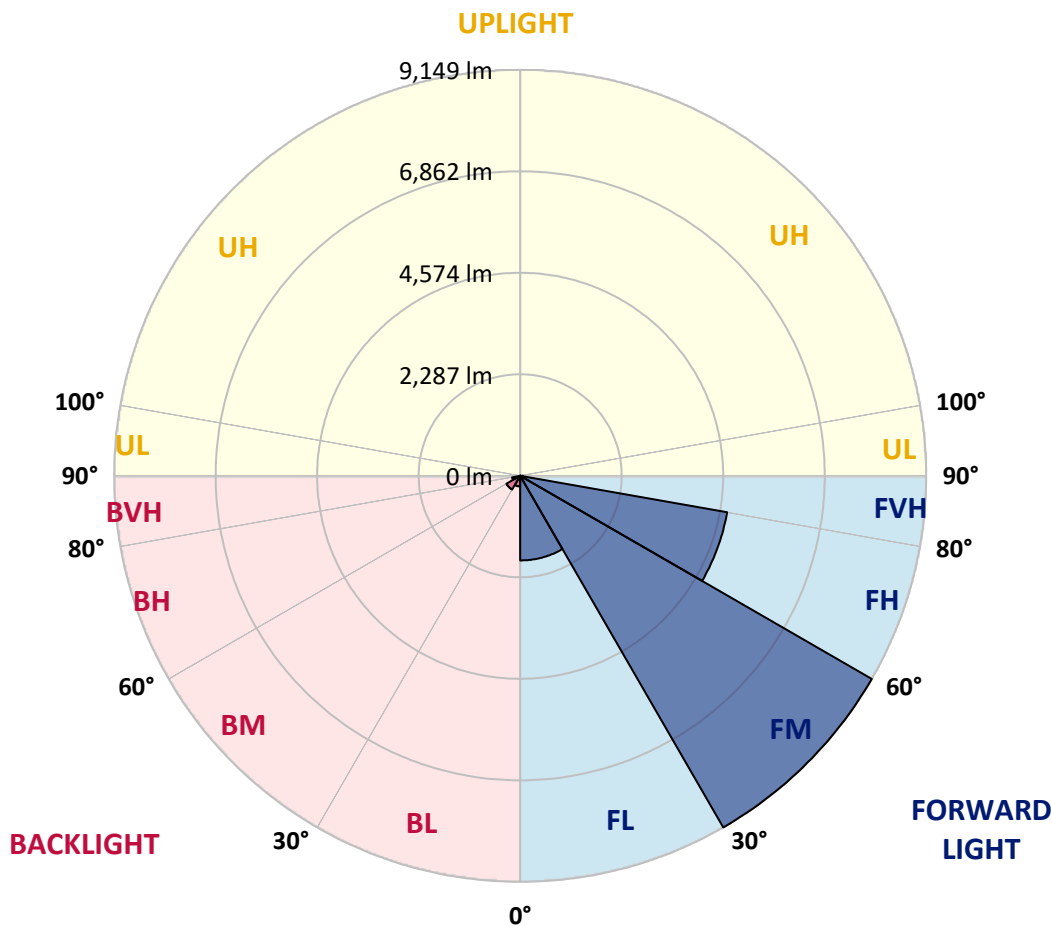


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1906.9	11.5			
FM (30°-60°)	9148.8	55.0			
FH (60°-80°)	4735.2	28.5			G2/5000
FVH (80°-90°)	58.5	0.4			G1/100
BL (0°-30°)	240.7	1.4	B1/500		
BM (30°-60°)	358.1	2.2	B1/1000		
BH (60°-80°)	184.7	1.1	B1/500		G1/500
BVH (80°-90°)	1.0	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°	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6
2.5°	3043.5	3026.9	3010.3	2946.6	2888.4	2835.8	2736.1	2606.0	2489.7	2464.7	2329.0
5°	3575.2	3555.9	3530.9	3467.2	3392.5	3303.8	3157.1	2957.7	2752.7	2708.4	2456.4
7.5°	3935.3	3918.6	3882.6	3852.2	3777.4	3691.6	3528.2	3295.5	3013.1	2957.7	2603.2
10°	4181.7	4170.7	4165.1	4140.2	4084.8	4015.6	3852.2	3608.5	3276.2	3212.5	2758.3
12.5°	4270.4	4270.4	4298.1	4339.6	4347.9	4325.7	4176.2	3932.5	3553.1	3486.6	2941.1
15°	4151.3	4165.1	4226.0	4359.0	4497.4	4588.8	4494.7	4267.6	3857.7	3785.7	3157.1
17.5°	4118.0	4131.9	4173.4	4289.7	4475.3	4719.0	4766.1	4591.6	4145.7	4084.8	3378.6
20°	4212.2	4226.0	4262.0	4361.7	4503.0	4749.5	4946.1	4904.5	4450.4	4386.7	3602.9
22.5°	4436.5	4444.8	4444.8	4522.4	4647.0	4829.8	5059.6	5200.9	4763.3	4694.1	3824.5
25°	4918.4	4901.8	4835.3	4796.5	4876.8	5026.4	5203.6	5461.2	5112.2	5018.1	4062.7
27.5°	5549.8	5605.2	5444.6	5259.0	5198.1	5283.9	5405.8	5691.0	5450.1	5350.4	4278.7
30°	6405.5	6383.4	6172.9	5907.1	5644.0	5613.5	5655.0	5887.7	5788.0	5693.8	4519.6
32.5°	7109.0	7150.5	6928.9	6604.9	6211.7	6026.1	5981.8	6123.1	6148.0	6087.1	4804.8
35°	7831.8	7876.1	7660.1	7300.0	6832.0	6521.8	6394.5	6413.8	6593.9	6516.3	5103.9
37.5°	8479.8	8518.6	8305.3	7937.0	7469.0	7089.6	6906.8	6757.2	7025.9	6956.6	5419.6
40°	8972.7	8978.3	8834.3	8504.7	8061.6	7668.4	7460.7	7167.1	7482.8	7435.7	5749.2
42.5°	9321.7	9332.8	9227.5	8945.0	8535.2	8169.6	8000.7	7651.7	8009.0	7967.5	6131.4
45°	9485.1	9504.5	9493.4	9233.1	8892.4	8576.7	8521.3	8166.9	8585.0	8546.3	6571.7
47.5°	9330.0	9330.0	9471.2	9435.2	9122.3	8911.8	8975.5	8704.1	9210.9	9174.9	7020.3
50°	8684.7	8693.0	8981.0	9393.7	9210.9	9163.8	9363.2	9230.3	9778.6	9800.8	7557.6
52.5°	6989.9	6976.0	7948.1	8740.1	9150.0	9277.4	9720.5	9767.5	10459.9	10526.3	8092.1
55°	5223.0	5214.7	6145.2	7582.5	8723.5	9219.2	9919.9	10246.6	11041.4	11083.0	8490.9
57.5°	4134.7	4112.5	4624.8	6112.0	7759.8	8958.9	9928.2	10338.0	11365.5	11437.5	8878.6
60°	3179.2	3159.8	3542.0	4547.3	6394.5	8266.5	9690.0	10343.6	11678.4	11805.8	9399.2
62.5°	2273.6	2295.8	2589.4	3262.3	4918.4	7289.0	9379.8	10421.1	12235.0	12379.1	10138.6
65°	1534.2	1523.1	1766.9	2221.0	3497.7	5973.5	8903.5	10584.5	13237.6	13489.6	11024.8
67.5°	1066.2	1074.5	1185.3	1445.6	2221.0	4586.1	8111.5	10675.9	14273.3	14469.9	11645.2
70°	769.9	781.0	841.9	972.0	1357.0	3110.0	6856.9	10257.7	14553.0	14724.7	11213.2
72.5°	506.8	528.9	620.3	689.6	866.8	1946.9	5051.3	8837.0	13348.3	13475.7	9407.5
75°	274.2	279.7	398.8	515.1	617.6	1213.0	3013.1	5959.7	9986.3	9944.8	6203.4
77.5°	213.2	221.5	246.5	368.3	415.4	667.4	1190.8	2691.8	4730.1	4602.7	2115.8
80°	130.2	135.7	171.7	218.8	290.8	387.7	348.9	731.1	961.0	900.0	310.2
82.5°	77.5	83.1	102.5	182.8	229.9	182.8	121.9	177.2	180.0	177.2	77.5
85°	13.8	13.8	72.0	127.4	121.9	52.6	72.0	58.2	52.6	55.4	16.6
87.5°	0.0	0.0	27.7	38.8	55.4	19.4	27.7	13.8	13.8	13.8	8.3
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°	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6
2.5°	2246.0	2151.8	1957.9	1789.0	1620.1	1495.5	1401.3	1304.4	1271.1	1229.6	1207.4
5°	2284.7	2099.2	1714.2	1406.8	1146.5	947.1	819.7	742.2	692.3	656.3	648.0
7.5°	2342.9	2057.6	1517.6	1102.2	817.0	617.6	512.3	459.7	432.0	415.4	409.9
10°	2412.1	2021.6	1323.8	858.5	576.0	434.8	376.6	354.5	343.4	337.9	335.1
12.5°	2509.0	2007.8	1160.4	661.9	434.8	357.2	326.8	312.9	304.6	296.3	293.6
15°	2636.4	2013.3	1010.8	512.3	360.0	318.5	293.6	279.7	268.6	260.3	260.3
17.5°	2769.4	2021.6	864.0	415.4	326.8	290.8	263.1	243.7	235.4	227.1	224.3
20°	2894.0	2018.9	722.8	354.5	296.3	260.3	232.6	213.2	199.4	191.1	191.1
22.5°	3013.1	2002.2	589.9	318.5	271.4	229.9	199.4	180.0	168.9	160.6	160.6
25°	3140.5	1969.0	481.9	290.8	240.9	202.2	171.7	152.3	144.0	135.7	135.7
27.5°	3240.2	1913.6	393.2	265.9	213.2	174.5	146.8	130.2	121.9	116.3	116.3
30°	3348.2	1833.3	326.8	238.2	185.5	149.5	124.6	110.8	102.5	99.7	99.7
32.5°	3467.2	1744.7	279.7	210.5	157.9	127.4	105.2	96.9	88.6	85.9	85.9
35°	3605.7	1667.2	252.0	182.8	138.5	108.0	91.4	83.1	77.5	77.5	77.5
37.5°	3763.6	1586.8	227.1	160.6	119.1	91.4	77.5	74.8	72.0	69.2	69.2
40°	3935.3	1501.0	204.9	141.2	102.5	77.5	66.5	66.5	63.7	63.7	63.7
42.5°	4129.1	1426.2	185.5	124.6	88.6	66.5	58.2	58.2	55.4	55.4	55.4
45°	4339.6	1357.0	168.9	110.8	77.5	58.2	52.6	49.8	47.1	47.1	47.1
47.5°	4588.8	1318.2	155.1	96.9	66.5	49.8	44.3	41.5	38.8	36.0	36.0
50°	4907.3	1334.8	141.2	80.3	58.2	41.5	36.0	33.2	30.5	27.7	27.7
52.5°	5159.3	1326.5	121.9	69.2	47.1	33.2	27.7	24.9	22.2	19.4	19.4
55°	5342.1	1293.3	105.2	58.2	36.0	27.7	22.2	16.6	13.8	13.8	13.8
57.5°	5522.1	1260.1	88.6	47.1	27.7	19.4	13.8	11.1	11.1	11.1	11.1
60°	5801.8	1213.0	77.5	38.8	22.2	13.8	8.3	8.3	5.5	5.5	5.5
62.5°	6142.4	1154.8	63.7	33.2	16.6	11.1	5.5	5.5	0.0	0.0	0.0
65°	6516.3	1052.4	52.6	24.9	13.8	8.3	5.5	0.0	0.0	0.0	0.0
67.5°	6430.5	844.7	44.3	16.6	11.1	5.5	2.8	0.0	0.0	0.0	0.0
70°	5688.3	570.5	36.0	13.8	8.3	5.5	2.8	0.0	0.0	0.0	0.0
72.5°	4455.9	337.9	24.9	11.1	5.5	2.8	0.0	0.0	0.0	0.0	0.0
75°	2852.4	168.9	16.6	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	955.4	83.1	11.1	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	135.7	27.7	5.5	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.5	11.1	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.1	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.8	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)