

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: P400161

Luminaire Tested: **ARCH-L-PA3-240-750-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-750-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23647 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

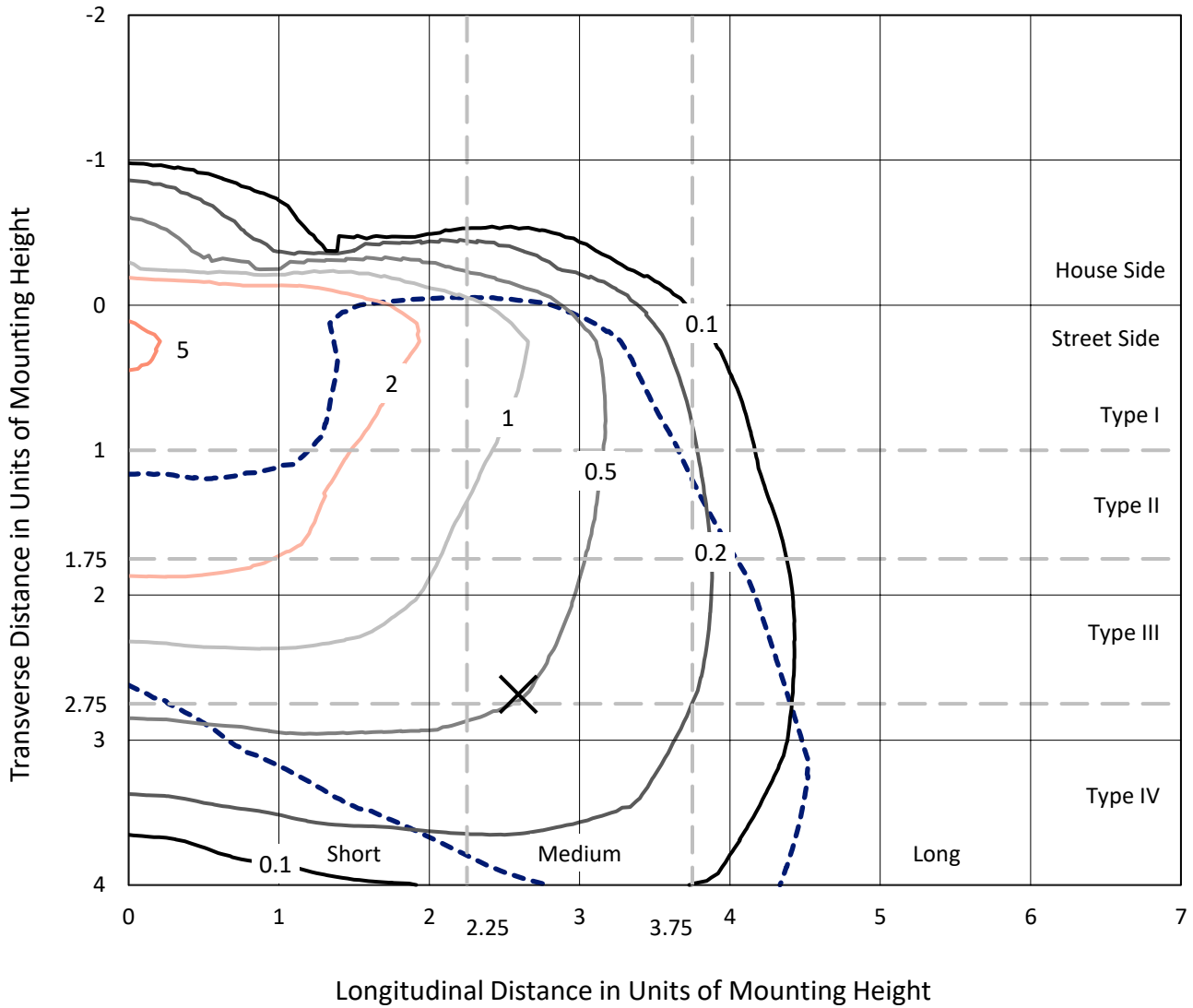
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

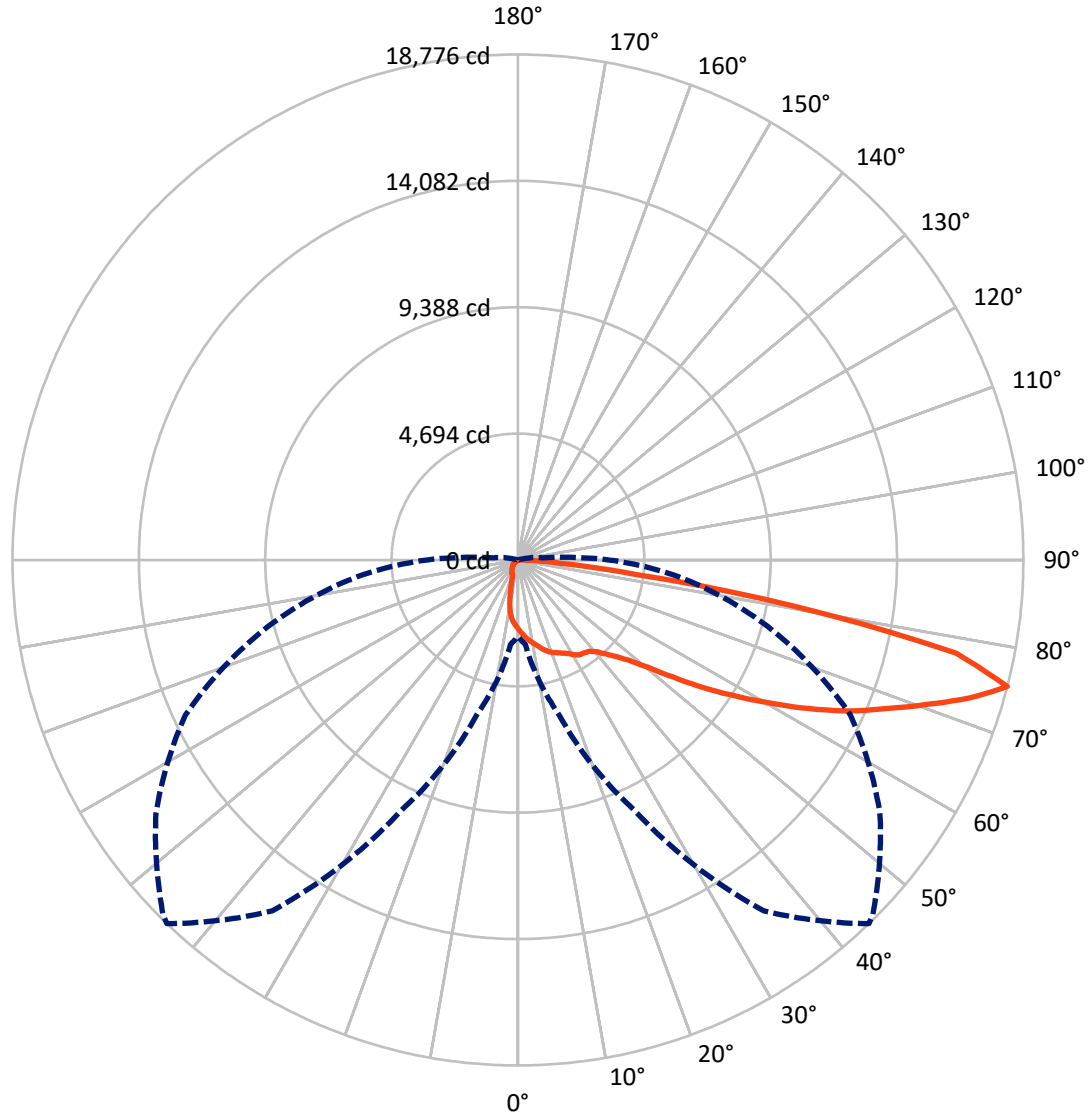
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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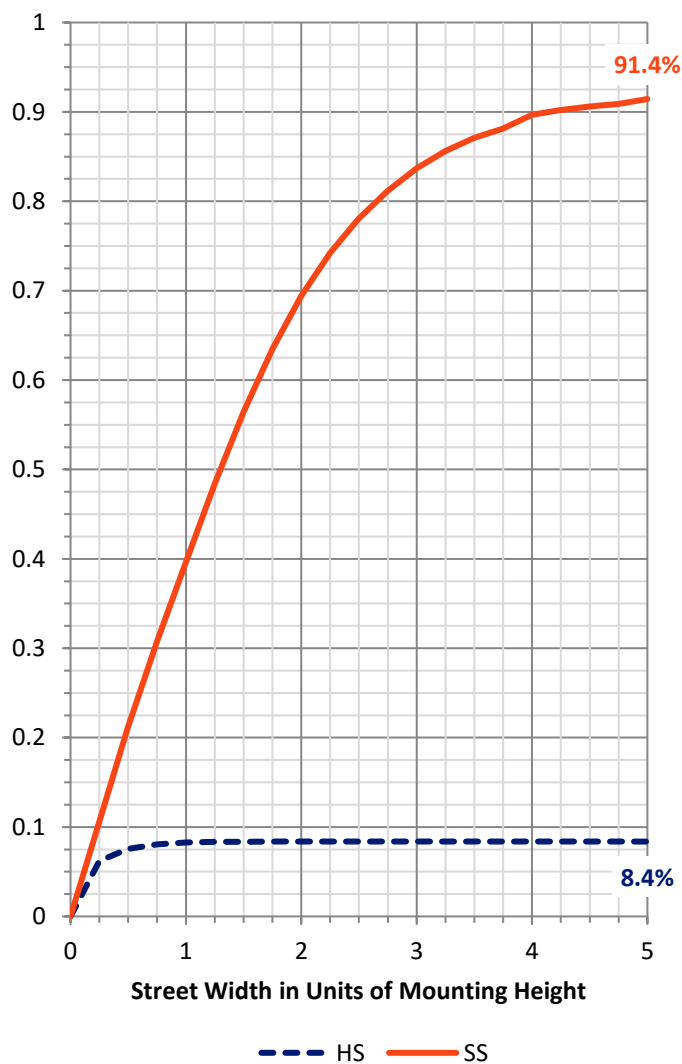
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1994.2	0.0	1994.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21652.8	0.0	21652.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	23647.0	0.0	23647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.0
10°-20°	680.2	2.9
20°-30°	1122.5	4.7
30°-40°	1629.2	6.9
40°-50°	2648.3	11.2
50°-60°	4668.7	19.7
60°-70°	6709.9	28.4
70°-80°	5373.1	22.7
80°-90°	572.5	2.4
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°	23647.0	100.0
0°-180°	23647.0	100.0

Coefficient of Utilization



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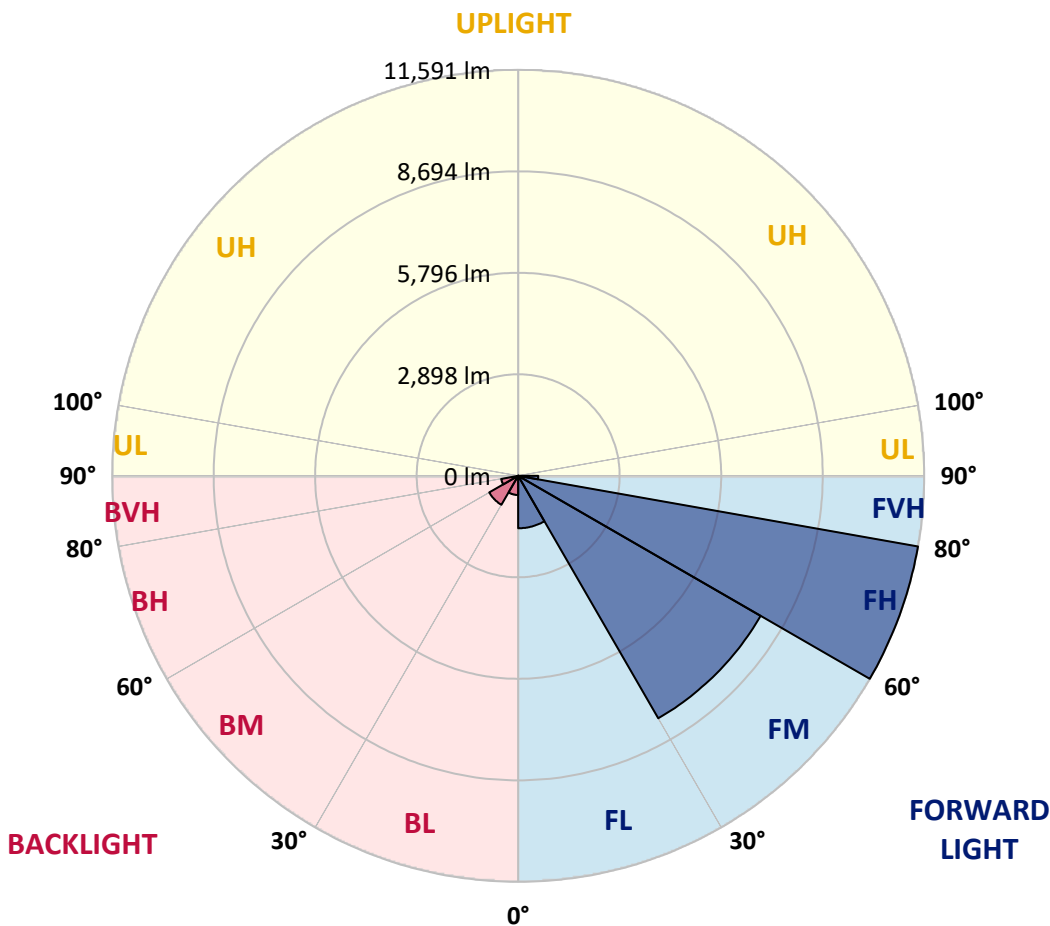
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.5	6.3			
FM (30°-60°)	7992.9	33.8			
FH (60°-80°)	11591.3	49.0			G4/12000
FVH (80°-90°)	571.0	2.4			G4/750
BL (0°-30°)	547.9	2.3	B2/1000		
BM (30°-60°)	953.3	4.0	B1/1000		
BH (60°-80°)	491.6	2.1	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: B2-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9
2.5°	2805.1	2800.7	2787.6	2765.8	2744.0	2722.2	2717.8	2682.9	2643.7	2613.1	2587.0
5°	3053.8	3049.4	3027.6	2979.6	2931.6	2874.9	2870.5	2787.6	2713.5	2630.6	2560.8
7.5°	3311.2	3302.4	3263.2	3189.0	3106.1	3018.9	3010.1	2888.0	2778.9	2669.9	2569.5
10°	3511.8	3503.1	3446.4	3359.1	3245.7	3136.7	3123.6	2997.1	2888.0	2748.4	2613.1
12.5°	3708.1	3690.7	3616.5	3520.6	3381.0	3276.3	3263.2	3132.3	3001.4	2857.5	2691.7
15°	3891.4	3869.6	3799.8	3677.6	3529.3	3428.9	3420.2	3280.6	3145.4	2979.6	2796.4
17.5°	4017.9	4009.2	3926.3	3791.0	3647.1	3564.2	3555.5	3411.5	3276.3	3101.8	2905.4
20°	4083.3	4083.3	4004.8	3856.5	3725.6	3668.9	3655.8	3520.6	3389.7	3223.9	3018.9
22.5°	4096.4	4109.5	4048.4	3887.0	3791.0	3743.0	3734.3	3616.5	3490.0	3337.3	3145.4
25°	4122.6	4122.6	4092.0	3917.5	3847.7	3834.7	3830.3	3725.6	3612.2	3459.5	3271.9
27.5°	4153.1	4153.1	4131.3	3961.2	3935.0	3930.6	3926.3	3878.3	3786.7	3607.8	3420.2
30°	4231.6	4236.0	4218.6	4048.4	4031.0	4079.0	4087.7	4061.5	3948.1	3725.6	3572.9
32.5°	4428.0	4388.7	4340.7	4109.5	4140.0	4201.1	4205.5	4153.1	4031.0	3852.1	3756.1
35°	4920.9	4689.7	4471.6	4161.8	4174.9	4236.0	4244.7	4240.4	4166.2	4013.5	3965.5
37.5°	5379.0	5051.8	4742.1	4284.0	4240.4	4305.8	4323.3	4397.4	4340.7	4236.0	4249.1
40°	5645.1	5518.6	5300.5	4619.9	4371.2	4471.6	4489.0	4602.5	4580.6	4537.0	4619.9
42.5°	6465.3	6474.0	6238.4	5121.6	4611.2	4772.6	4794.4	4886.0	4916.6	4938.4	5139.0
45°	7416.3	7446.8	7390.1	6024.6	5064.9	5117.2	5147.8	5269.9	5383.3	5522.9	5889.4
47.5°	8559.3	8533.1	8323.7	7128.4	5854.5	5562.2	5584.0	5819.6	6015.9	6321.3	6844.8
50°	9571.4	9636.8	9239.8	8157.9	6966.9	6264.6	6242.8	6474.0	6827.3	7254.9	7913.6
52.5°	10592.2	10496.2	9959.6	9178.7	8284.4	7220.0	7154.5	7281.0	7778.4	8284.4	8960.6
55°	10862.7	10871.4	10688.2	10295.5	9383.8	8380.4	8271.3	8262.6	8882.1	9226.7	10060.0
57.5°	11394.9	11416.7	11460.3	11538.9	11107.0	9540.8	9427.4	9305.3	9907.3	10108.0	11163.7
60°	11935.9	11962.0	12228.1	12651.3	12363.4	10792.9	10670.7	10382.8	10718.7	10989.2	12324.1
62.5°	11866.1	12049.3	12821.4	13663.4	13628.5	12167.1	12014.4	11320.7	11534.5	11770.1	13388.6
65°	10714.3	10910.7	12646.9	13942.6	14898.0	13523.8	13275.1	12289.2	12302.3	12585.9	14413.8
67.5°	9684.8	9898.6	11556.3	13824.8	15735.6	14741.0	14483.6	13262.1	13057.0	13528.2	14963.4
70°	9091.5	9305.3	10688.2	13458.4	15971.2	16089.0	15866.5	14374.5	13955.7	14387.6	14348.3
72.5°	7115.3	7451.2	9580.1	12760.4	16224.2	17533.0	17358.5	15783.6	14719.1	13488.9	10923.7
75°	2835.6	3145.4	5981.0	10269.4	15905.7	18776.3	18641.0	16416.2	13624.1	9632.4	5592.7
77.5°	855.1	916.1	1662.1	5078.0	11661.0	16647.4	16603.7	13803.0	9641.2	4471.6	1526.9
80°	283.6	314.1	510.4	1400.4	5322.3	10400.2	10596.6	8794.8	4380.0	1025.2	309.7
82.5°	117.8	130.9	257.4	562.8	1884.6	4480.3	4414.9	3939.4	1526.9	636.9	113.4
85°	30.5	39.3	117.8	322.8	689.3	1544.3	1622.9	1321.8	863.8	527.9	34.9
87.5°	0.0	0.0	56.7	130.9	309.7	466.8	488.6	401.4	488.6	397.0	17.5
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°	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9
2.5°	2565.2	2543.3	2504.1	2477.9	2443.0	2434.3	2416.8	2395.0	2390.7	2368.8	2373.2
5°	2521.5	2486.6	2416.8	2368.8	2312.1	2294.7	2264.1	2242.3	2224.9	2194.3	2198.7
7.5°	2512.8	2460.5	2364.5	2272.9	2181.3	2115.8	2024.2	1950.0	1889.0	1823.5	1836.6
10°	2543.3	2477.9	2342.7	2216.2	2050.4	1841.0	1601.0	1444.0	1365.5	1286.9	1295.7
12.5°	2604.4	2525.9	2351.4	2159.4	1823.5	1465.8	1134.3	920.5	863.8	828.9	833.2
15°	2696.0	2600.1	2377.6	2050.4	1518.2	1060.1	754.7	663.1	684.9	698.0	698.0
17.5°	2792.0	2682.9	2399.4	1854.1	1173.5	741.6	615.1	606.4	636.9	667.5	667.5
20°	2909.8	2770.2	2403.7	1605.4	846.3	602.0	580.2	580.2	602.0	636.9	636.9
22.5°	3023.2	2866.2	2364.5	1321.8	645.7	558.4	558.4	558.4	571.5	606.4	610.8
25°	3158.5	2984.0	2281.6	1020.8	554.0	532.2	532.2	536.6	545.3	575.9	580.2
27.5°	3302.4	3106.1	2142.0	746.0	506.1	501.7	506.1	510.4	514.8	545.3	554.0
30°	3468.2	3241.4	1963.1	558.4	462.4	462.4	475.5	484.2	484.2	510.4	519.1
32.5°	3660.2	3420.2	1749.4	462.4	418.8	414.4	436.3	449.3	449.3	471.2	479.9
35°	3900.1	3603.4	1492.0	410.1	383.9	375.2	383.9	405.7	414.4	431.9	436.3
37.5°	4218.6	3821.6	1217.1	379.5	357.7	340.3	340.3	344.6	362.1	379.5	383.9
40°	4624.3	4061.5	946.7	357.7	331.6	314.1	301.0	296.7	292.3	305.4	314.1
42.5°	5134.7	4332.0	706.7	335.9	309.7	283.6	266.1	248.7	226.9	222.5	226.9
45°	5789.1	4663.5	523.5	318.5	296.7	257.4	226.9	196.3	157.1	144.0	148.3
47.5°	6561.2	5008.2	410.1	301.0	287.9	226.9	187.6	135.2	96.0	87.3	91.6
50°	7381.4	5339.7	349.0	279.2	270.5	196.3	135.2	82.9	56.7	56.7	61.1
52.5°	8079.4	5527.3	318.5	261.8	244.3	161.4	87.3	48.0	34.9	34.9	39.3
55°	8755.6	5627.6	296.7	244.3	209.4	113.4	48.0	30.5	21.8	21.8	21.8
57.5°	9453.6	5671.3	270.5	222.5	165.8	69.8	26.2	17.5	13.1	13.1	13.1
60°	10073.1	5588.4	231.2	183.2	109.1	34.9	13.1	13.1	8.7	4.4	4.4
62.5°	10592.2	5431.3	161.4	130.9	65.4	17.5	8.7	4.4	0.0	0.0	0.0
65°	10910.7	5178.3	104.7	87.3	39.3	13.1	4.4	0.0	0.0	0.0	0.0
67.5°	10819.0	4702.8	65.4	56.7	17.5	8.7	4.4	0.0	0.0	0.0	0.0
70°	9763.3	3856.5	48.0	34.9	13.1	4.4	0.0	0.0	0.0	0.0	0.0
72.5°	7036.7	2608.8	34.9	21.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	3385.3	929.2	21.8	17.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	828.9	205.0	13.1	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	183.2	39.3	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.1	17.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	4.4	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)