

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: P400152

Luminaire Tested: **ARCH-L-PA3-240-740-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400152
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-PA3-240-740-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 23648 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

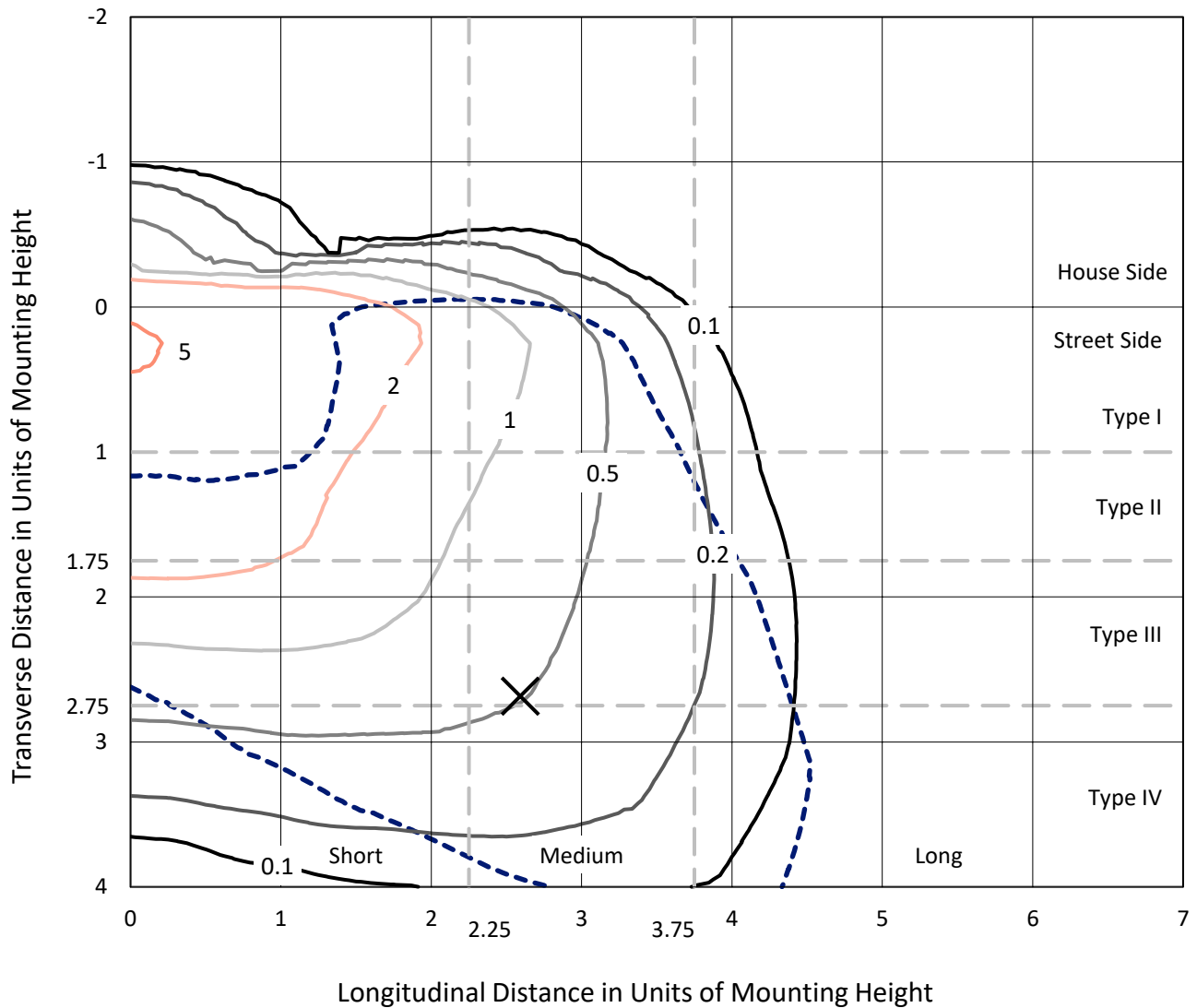
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

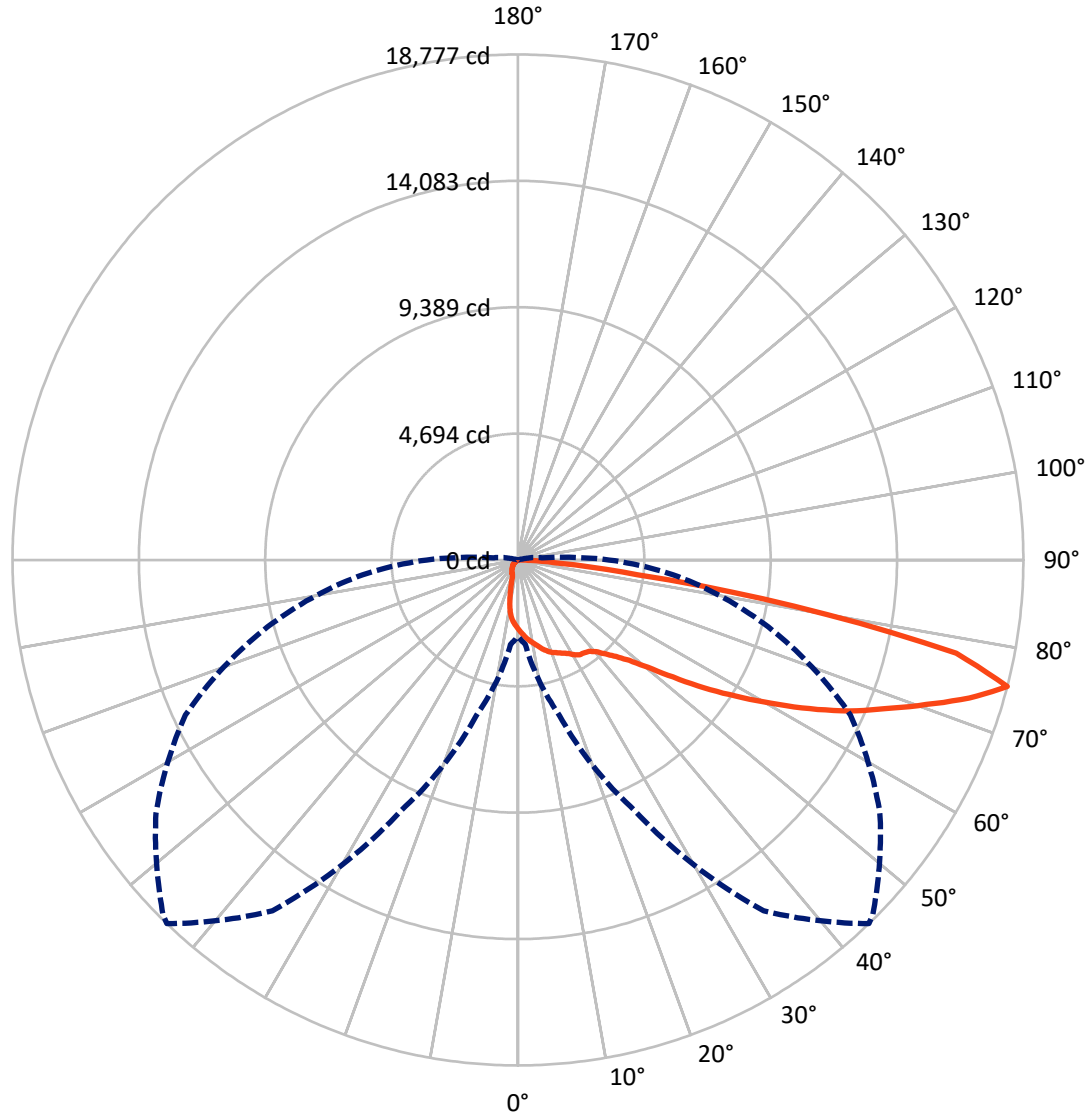
× Max cd
 - - - 1/2 Max cd



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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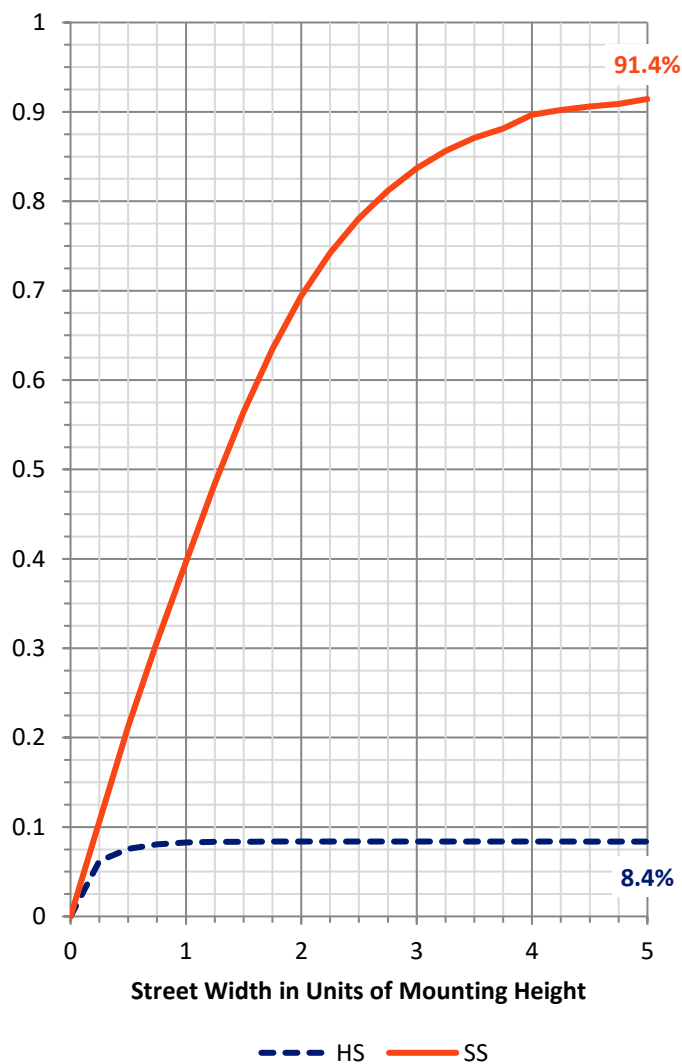
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1994.3	0.0	1994.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21653.7	0.0	21653.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	23648.0	0.0	23648.0
	% 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°	2648.4	11.2
50°-60°	4668.9	19.7
60°-70°	6710.2	28.4
70°-80°	5373.3	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°	23648.0	100.0
0°-180°	23648.0	100.0

Coefficient of Utilization



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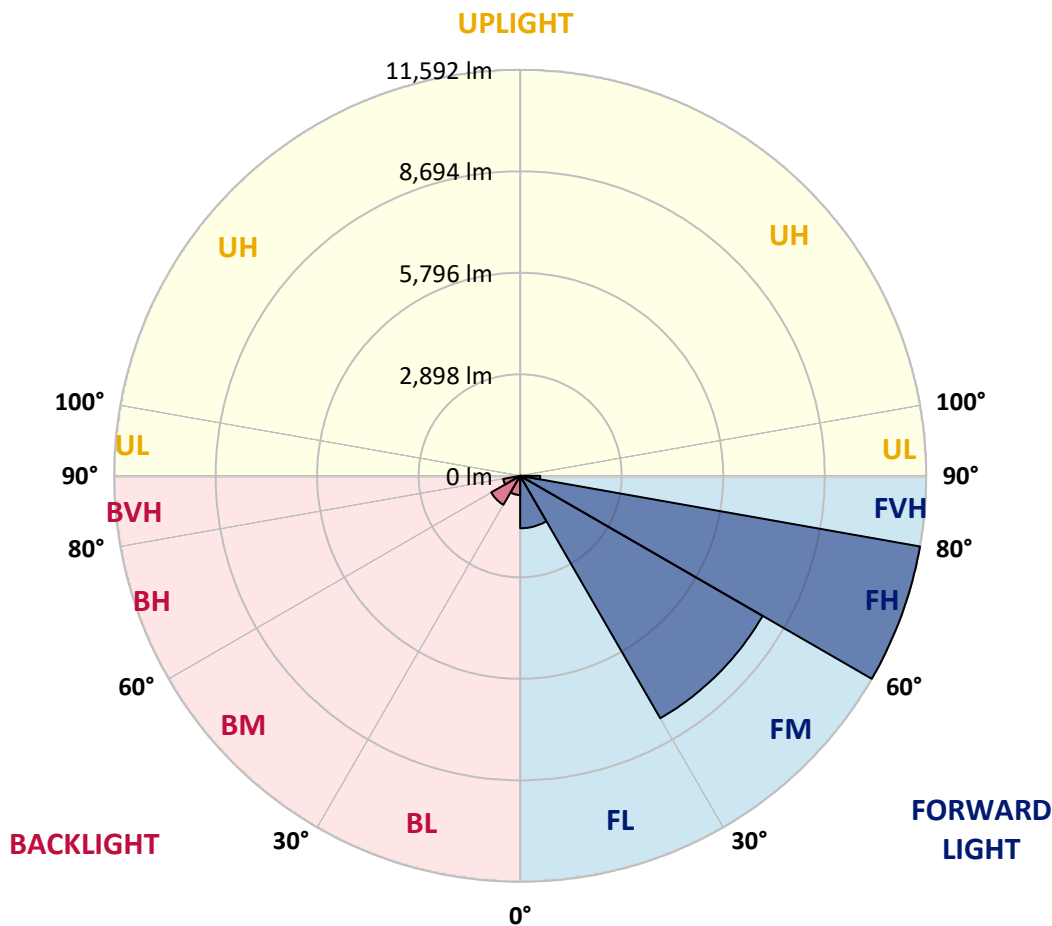
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.6	6.3			
FM (30°-60°)	7993.2	33.8			
FH (60°-80°)	11591.8	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°	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0
2.5°	2805.2	2800.9	2787.8	2766.0	2744.1	2722.3	2718.0	2683.1	2643.8	2613.3	2587.1
5°	3053.9	3049.5	3027.7	2979.7	2931.7	2875.0	2870.7	2787.8	2713.6	2630.7	2560.9
7.5°	3311.3	3302.6	3263.3	3189.1	3106.2	3019.0	3010.3	2888.1	2779.0	2670.0	2569.6
10°	3512.0	3503.3	3446.5	3359.3	3245.9	3136.8	3123.7	2997.2	2888.1	2748.5	2613.3
12.5°	3708.3	3690.8	3616.7	3520.7	3381.1	3276.4	3263.3	3132.4	3001.5	2857.6	2691.8
15°	3891.5	3869.7	3799.9	3677.8	3529.4	3429.1	3420.4	3280.8	3145.5	2979.7	2796.5
17.5°	4018.1	4009.3	3926.4	3791.2	3647.2	3564.3	3555.6	3411.6	3276.4	3101.9	2905.6
20°	4083.5	4083.5	4005.0	3856.6	3725.7	3669.0	3655.9	3520.7	3389.8	3224.0	3019.0
22.5°	4096.6	4109.7	4048.6	3887.2	3791.2	3743.2	3734.5	3616.7	3490.2	3337.5	3145.5
25°	4122.8	4122.8	4092.2	3917.7	3847.9	3834.8	3830.5	3725.7	3612.3	3459.6	3272.0
27.5°	4153.3	4153.3	4131.5	3961.3	3935.2	3930.8	3926.4	3878.4	3786.8	3608.0	3420.4
30°	4231.8	4236.2	4218.7	4048.6	4031.1	4079.1	4087.9	4061.7	3948.2	3725.7	3573.1
32.5°	4428.1	4388.9	4340.9	4109.7	4140.2	4201.3	4205.6	4153.3	4031.1	3852.3	3756.3
35°	4921.1	4689.9	4471.8	4162.0	4175.1	4236.2	4244.9	4240.5	4166.4	4013.7	3965.7
37.5°	5379.2	5052.0	4742.3	4284.2	4240.5	4306.0	4323.4	4397.6	4340.9	4236.2	4249.3
40°	5645.3	5518.8	5300.7	4620.1	4371.4	4471.8	4489.2	4602.7	4580.8	4537.2	4620.1
42.5°	6465.5	6474.3	6238.7	5121.8	4611.4	4772.8	4794.6	4886.2	4916.8	4938.6	5139.3
45°	7416.6	7447.1	7390.4	6024.9	5065.1	5117.5	5148.0	5270.1	5383.6	5523.2	5889.6
47.5°	8559.6	8533.4	8324.0	7128.7	5854.7	5562.4	5584.3	5819.8	6016.2	6321.6	6845.1
50°	9571.8	9637.2	9240.2	8158.3	6967.2	6264.8	6243.0	6474.3	6827.6	7255.2	7913.9
52.5°	10592.6	10496.7	9960.1	9179.1	8284.8	7220.3	7154.8	7281.4	7778.7	8284.8	8961.0
55°	10863.1	10871.9	10688.6	10296.0	9384.2	8380.8	8271.7	8263.0	8882.5	9227.1	10060.4
57.5°	11395.4	11417.2	11460.8	11539.4	11107.4	9541.2	9427.8	9305.6	9907.7	10108.4	11164.2
60°	11936.4	11962.5	12228.7	12651.8	12363.9	10793.3	10671.2	10383.2	10719.2	10989.7	12324.6
62.5°	11866.6	12049.8	12822.0	13664.0	13629.1	12167.6	12014.9	11321.2	11535.0	11770.6	13389.1
65°	10714.8	10911.1	12647.5	13943.2	14898.6	13524.4	13275.7	12289.7	12302.8	12586.4	14414.4
67.5°	9685.2	9899.0	11556.8	13825.4	15736.3	14741.6	14484.2	13262.6	13057.6	13528.7	14964.1
70°	9091.9	9305.6	10688.6	13458.9	15971.9	16089.7	15867.2	14375.1	13956.3	14388.2	14348.9
72.5°	7115.6	7451.5	9580.5	12760.9	16224.9	17533.7	17359.2	15784.3	14719.8	13489.5	10924.2
75°	2835.8	3145.5	5981.3	10269.8	15906.4	18777.1	18641.8	16416.9	13624.7	9632.8	5593.0
77.5°	855.1	916.2	1662.2	5078.2	11661.5	16648.1	16604.5	13803.6	9641.6	4471.8	1526.9
80°	283.6	314.1	510.4	1400.4	5322.5	10400.7	10597.0	8795.2	4380.2	1025.2	309.8
82.5°	117.8	130.9	257.4	562.8	1884.7	4480.5	4415.1	3939.5	1526.9	637.0	113.4
85°	30.5	39.3	117.8	322.8	689.3	1544.4	1622.9	1321.9	863.8	527.9	34.9
87.5°	0.0	0.0	56.7	130.9	309.8	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°	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0	2574.0
2.5°	2565.3	2543.5	2504.2	2478.0	2443.1	2434.4	2416.9	2395.1	2390.8	2368.9	2373.3
5°	2521.6	2486.7	2416.9	2368.9	2312.2	2294.8	2264.2	2242.4	2225.0	2194.4	2198.8
7.5°	2512.9	2460.6	2364.6	2273.0	2181.4	2115.9	2024.3	1950.1	1889.1	1823.6	1836.7
10°	2543.5	2478.0	2342.8	2216.3	2050.5	1841.1	1601.1	1444.1	1365.5	1287.0	1295.7
12.5°	2604.5	2526.0	2351.5	2159.5	1823.6	1465.9	1134.3	920.5	863.8	828.9	833.3
15°	2696.2	2600.2	2377.7	2050.5	1518.2	1060.1	754.7	663.1	684.9	698.0	698.0
17.5°	2792.1	2683.1	2399.5	1854.1	1173.6	741.7	615.1	606.4	637.0	667.5	667.5
20°	2909.9	2770.3	2403.8	1605.5	846.4	602.1	580.2	580.2	602.1	637.0	637.0
22.5°	3023.4	2866.3	2364.6	1321.9	645.7	558.4	558.4	558.4	571.5	606.4	610.8
25°	3158.6	2984.1	2281.7	1020.9	554.1	532.2	532.2	536.6	545.3	575.9	580.2
27.5°	3302.6	3106.2	2142.1	746.0	506.1	501.7	506.1	510.4	514.8	545.3	554.1
30°	3468.3	3241.5	1963.2	558.4	462.4	462.4	475.5	484.3	484.3	510.4	519.2
32.5°	3660.3	3420.4	1749.4	462.4	418.8	414.5	436.3	449.4	449.4	471.2	479.9
35°	3900.3	3603.6	1492.0	410.1	383.9	375.2	383.9	405.7	414.5	431.9	436.3
37.5°	4218.7	3821.7	1217.2	379.6	357.7	340.3	340.3	344.7	362.1	379.6	383.9
40°	4624.5	4061.7	946.7	357.7	331.6	314.1	301.0	296.7	292.3	305.4	314.1
42.5°	5134.9	4332.2	706.8	335.9	309.8	283.6	266.1	248.7	226.9	222.5	226.9
45°	5789.3	4663.7	523.5	318.5	296.7	257.4	226.9	196.3	157.1	144.0	148.3
47.5°	6561.5	5008.4	410.1	301.0	287.9	226.9	187.6	135.2	96.0	87.3	91.6
50°	7381.7	5339.9	349.0	279.2	270.5	196.3	135.2	82.9	56.7	56.7	61.1
52.5°	8079.7	5527.5	318.5	261.8	244.3	161.4	87.3	48.0	34.9	34.9	39.3
55°	8755.9	5627.9	296.7	244.3	209.4	113.4	48.0	30.5	21.8	21.8	21.8
57.5°	9454.0	5671.5	270.5	222.5	165.8	69.8	26.2	17.5	13.1	13.1	13.1
60°	10073.5	5588.6	231.2	183.2	109.1	34.9	13.1	13.1	8.7	4.4	4.4
62.5°	10592.6	5431.6	161.4	130.9	65.4	17.5	8.7	4.4	0.0	0.0	0.0
65°	10911.1	5178.5	104.7	87.3	39.3	13.1	4.4	0.0	0.0	0.0	0.0
67.5°	10819.5	4703.0	65.4	56.7	17.5	8.7	4.4	0.0	0.0	0.0	0.0
70°	9763.7	3856.6	48.0	34.9	13.1	4.4	0.0	0.0	0.0	0.0	0.0
72.5°	7037.0	2608.9	34.9	21.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	3385.5	929.3	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)