

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: P400139

Luminaire Tested: **ARCH-L-PA3-240-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20641 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

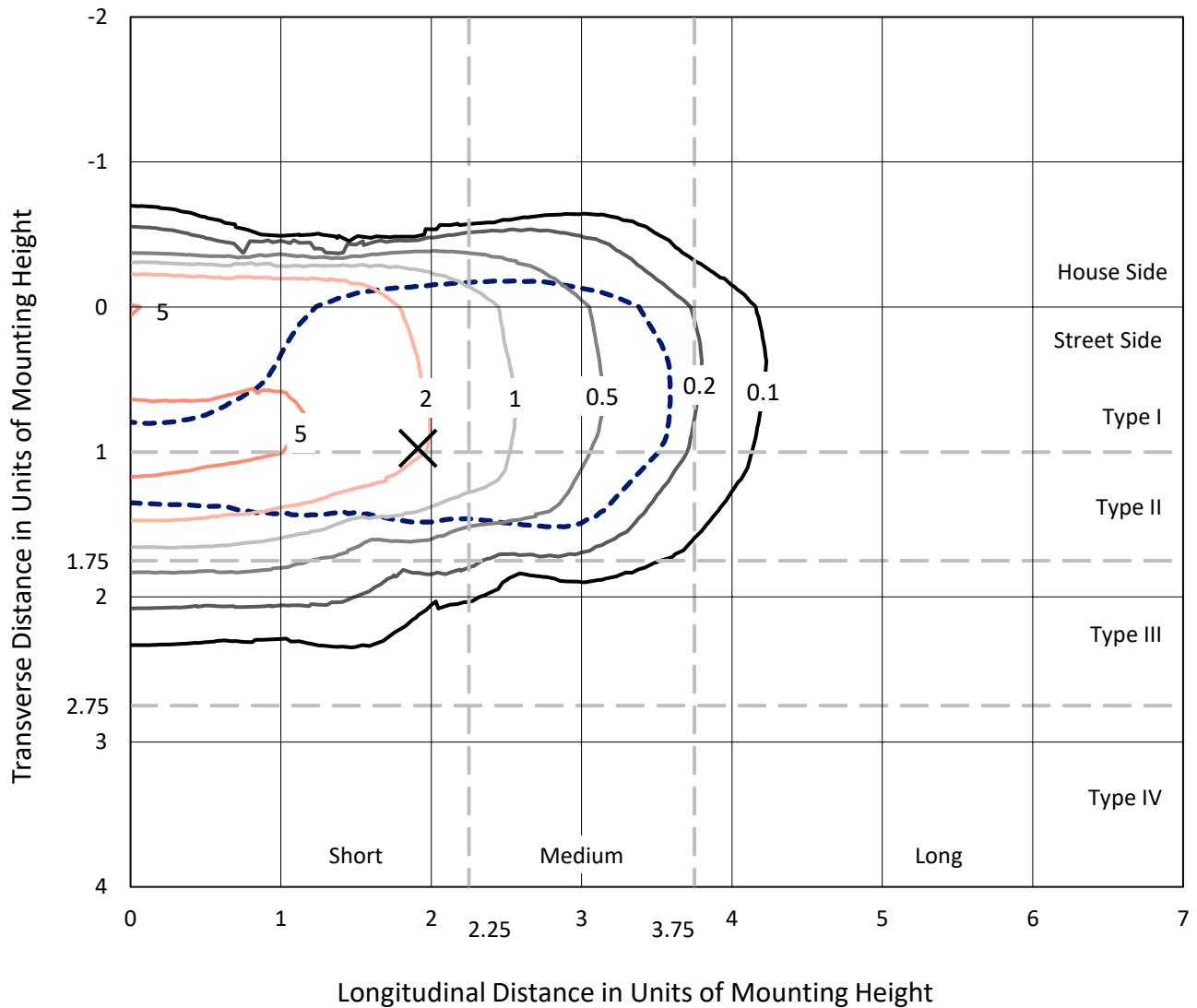
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

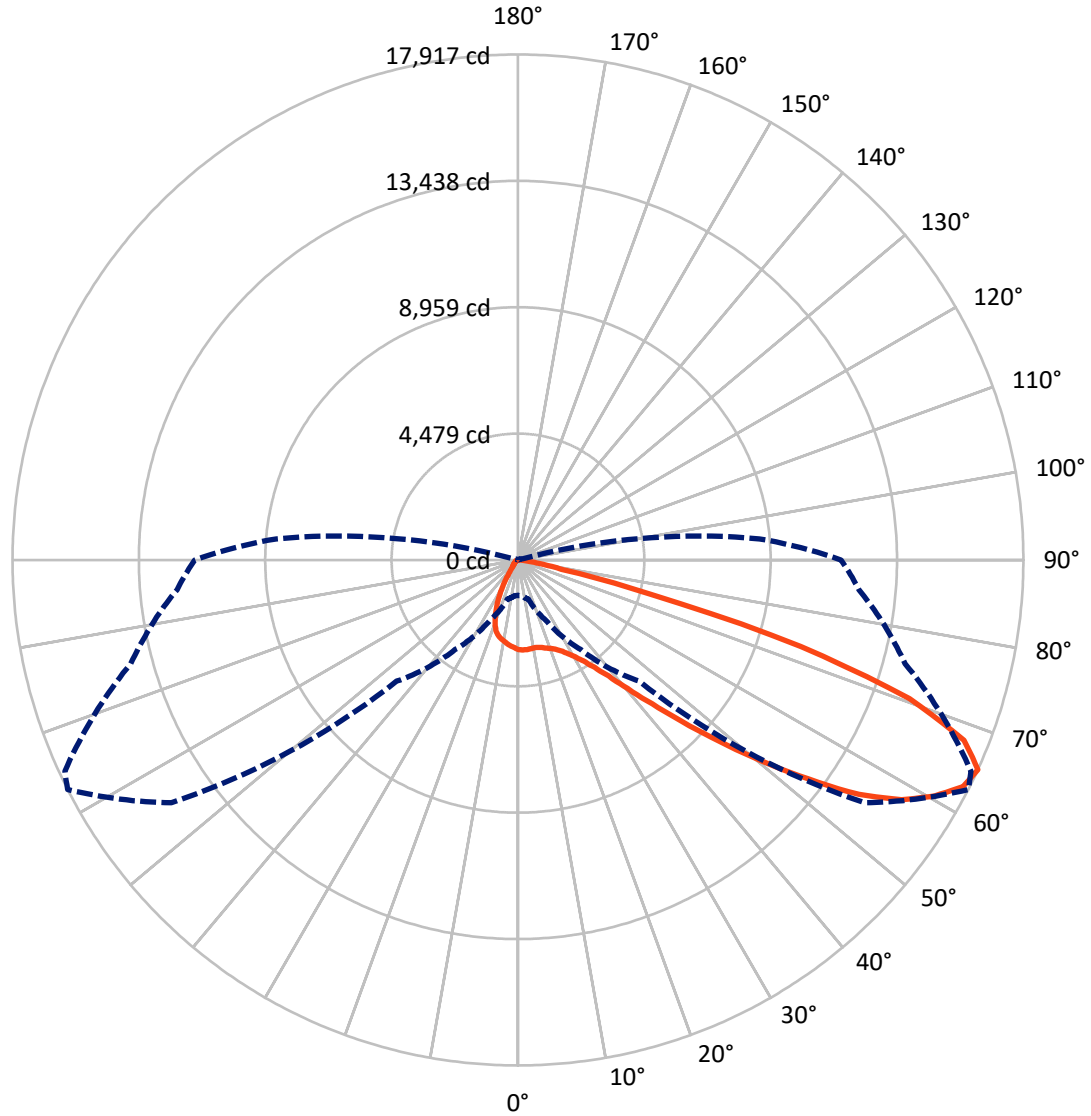
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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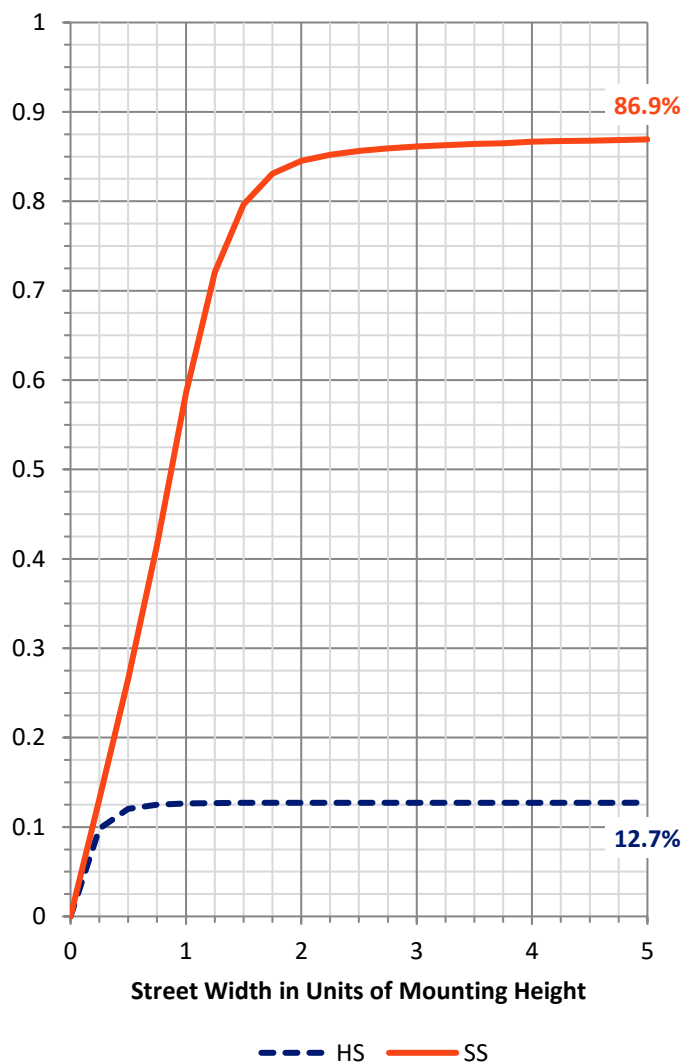
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2656.5	0.0	2656.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	17984.5	0.0	17984.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	20641.0	0.0	20641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	1.4
10°-20°	715.7	3.5
20°-30°	1060.9	5.1
30°-40°	1969.8	9.5
40°-50°	4172.9	20.2
50°-60°	5770.0	28.0
60°-70°	4619.1	22.4
70°-80°	1919.1	9.3
80°-90°	123.2	0.6
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°	20641.0	100.0
0°-180°	20641.0	100.0

Coefficient of Utilization



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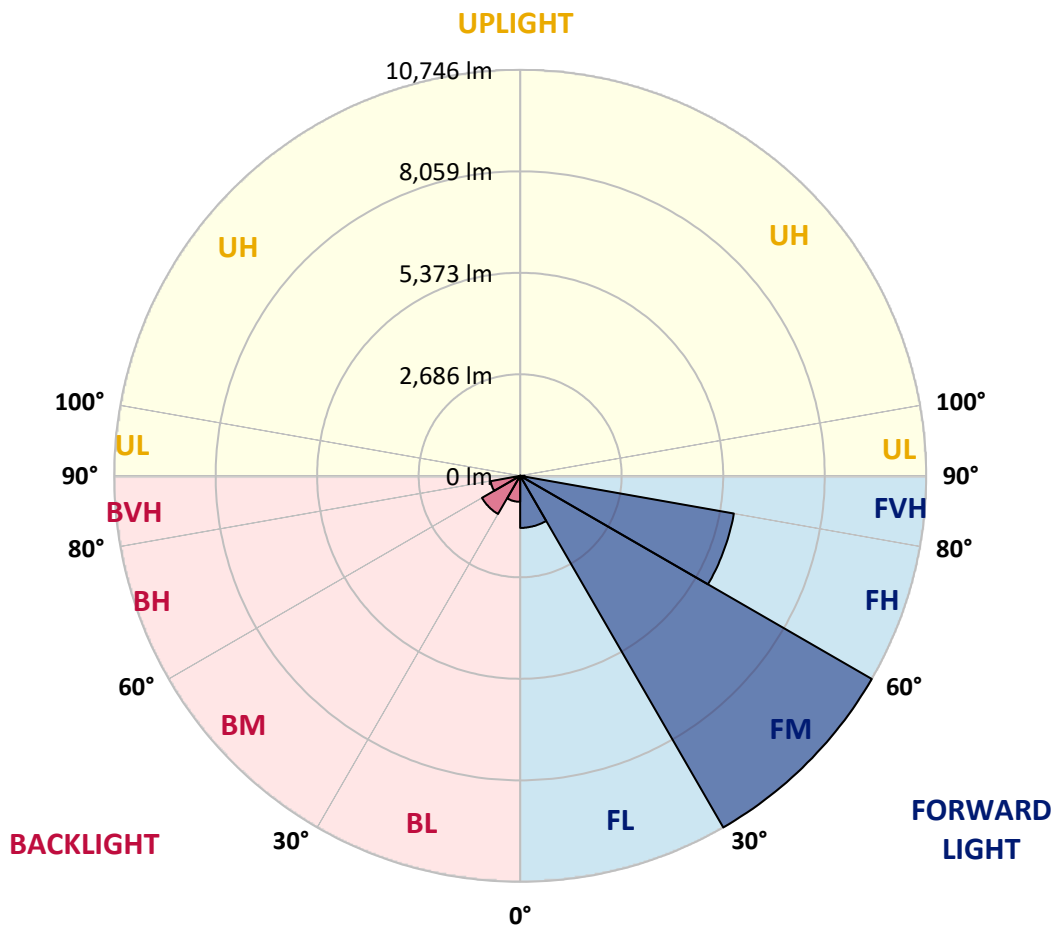
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.3	6.7			
FM (30°-60°)	10745.8	52.1			
FH (60°-80°)	5742.8	27.8			G3/7500
FVH (80°-90°)	117.6	0.6			G2/225
BL (0°-30°)	688.5	3.3	B2/1000		
BM (30°-60°)	1166.9	5.7	B2/2500		
BH (60°-80°)	795.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8
2.5°	3234.3	3226.5	3218.7	3214.8	3214.8	3210.9	3195.3	3191.4	3183.7	3175.9	3168.1
5°	3203.1	3191.4	3187.6	3191.4	3195.3	3203.1	3195.3	3195.3	3187.6	3179.8	3164.2
7.5°	3125.2	3117.4	3121.3	3133.0	3136.9	3164.2	3168.1	3179.8	3179.8	3172.0	3160.3
10°	3031.7	3027.8	3027.8	3047.3	3066.8	3105.7	3133.0	3164.2	3168.1	3168.1	3148.6
12.5°	2961.5	2957.6	2969.3	2992.7	3031.7	3082.3	3129.1	3175.9	3183.7	3187.6	3156.4
15°	2918.7	2918.7	2934.3	2981.0	3035.6	3105.7	3160.3	3222.6	3230.4	3226.5	3183.7
17.5°	2879.7	2883.6	2914.8	2992.7	3055.1	3148.6	3214.8	3285.0	3288.9	3285.0	3214.8
20°	2864.1	2871.9	2918.7	3020.0	3090.1	3195.3	3281.1	3351.2	3355.1	3339.5	3246.0
22.5°	2907.0	2910.9	2969.3	3078.4	3144.7	3261.6	3370.7	3436.9	3440.8	3417.5	3292.8
25°	3055.1	3055.1	3105.7	3199.2	3257.7	3374.6	3491.5	3569.4	3569.4	3542.2	3398.0
27.5°	3401.9	3370.7	3359.0	3386.3	3405.8	3530.5	3655.2	3752.6	3748.7	3709.7	3534.4
30°	4072.1	3994.2	3869.5	3729.2	3659.1	3744.8	3861.7	3986.4	3982.5	3920.1	3701.9
32.5°	5198.3	5085.3	4789.1	4418.9	4118.9	4021.5	4130.6	4267.0	4270.9	4196.8	3970.8
35°	6776.5	6597.2	6067.3	5552.9	4867.1	4496.9	4528.0	4676.1	4722.9	4683.9	4422.8
37.5°	8296.2	8132.5	7626.0	6912.9	5981.5	5225.6	5093.1	5221.7	5276.2	5276.2	4999.5
40°	9827.6	9636.7	9188.6	8471.6	7489.6	6363.4	5888.0	5993.2	6051.7	6063.4	5701.0
42.5°	11055.1	10930.4	10587.5	10030.3	9110.6	8358.6	7033.7	6975.2	7029.8	6986.9	6515.4
45°	11904.6	11807.2	11569.5	11359.1	10910.9	10532.9	8565.1	8171.5	8206.6	8058.5	7431.1
47.5°	12080.0	11970.9	11920.2	12212.4	12532.0	12625.5	10447.2	9593.8	9558.8	9231.4	8381.9
50°	11316.2	11327.9	11514.9	12348.8	13681.5	14523.2	12629.4	11199.3	11070.7	10342.0	9266.5
52.5°	9667.9	9854.9	10326.4	11678.6	14032.2	15902.7	14811.6	12902.2	12703.4	11421.4	9928.9
55°	7563.6	7805.2	8580.7	10135.5	13299.6	16518.4	16650.9	14671.3	14219.3	12231.9	10443.3
57.5°	5623.0	5697.1	6601.1	8019.5	11565.6	15914.4	17593.9	16035.2	15454.6	12878.8	10953.8
60°	3503.2	3549.9	4504.7	6106.2	8759.9	13681.5	17593.9	16974.3	16421.0	13459.4	11421.4
62.5°	2178.3	2193.9	2552.4	4185.1	5954.3	10147.2	16865.2	17703.0	17258.8	13876.4	11822.8
65°	1254.8	1270.3	1437.9	2365.3	3873.4	6075.1	15002.5	17917.3	17718.6	14207.6	12134.5
67.5°	915.7	923.5	989.8	1328.8	2532.9	3121.3	11269.4	17056.1	17305.5	14371.3	12126.7
70°	794.9	806.6	892.4	1036.5	1827.6	1917.2	5736.0	14729.8	15427.3	14137.4	11764.3
72.5°	611.8	627.4	756.0	974.2	1340.5	1379.5	2077.0	10482.3	11538.3	12676.2	10770.6
75°	420.9	436.4	565.0	802.7	1106.7	1032.6	1141.8	4824.2	6086.7	8502.7	8198.8
77.5°	268.9	272.8	354.6	584.5	954.7	732.6	783.2	1574.3	2209.5	3846.1	3869.5
80°	179.3	183.1	218.2	378.0	654.7	678.0	483.2	728.7	798.8	1122.3	779.4
82.5°	109.1	109.1	148.1	237.7	397.5	561.1	315.6	381.9	409.2	432.5	202.6
85°	42.9	42.9	89.6	155.9	249.4	261.1	198.7	222.1	233.8	253.3	93.5
87.5°	11.7	11.7	50.7	85.7	109.1	120.8	120.8	109.1	116.9	144.2	46.8
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°	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8
2.5°	3164.2	3152.5	3136.9	3121.3	3105.7	3094.0	3082.3	3082.3	3074.5	3062.9	3055.1
5°	3156.4	3136.9	3101.8	3074.5	3031.7	3000.5	2977.1	2957.6	2946.0	2918.7	2914.8
7.5°	3144.7	3121.3	3070.6	3016.1	2946.0	2891.4	2836.8	2797.9	2758.9	2727.7	2719.9
10°	3125.2	3097.9	3023.9	2946.0	2848.5	2747.2	2618.6	2470.5	2334.2	2256.2	2232.8
12.5°	3125.2	3090.1	2992.7	2887.5	2747.2	2497.8	2170.5	1843.2	1589.9	1476.9	1445.7
15°	3144.7	3097.9	2969.3	2825.2	2564.1	2057.5	1527.5	1095.0	818.3	732.6	713.1
17.5°	3164.2	3097.9	2934.3	2739.4	2228.9	1492.5	869.0	576.7	487.1	467.6	467.6
20°	3172.0	3090.1	2887.5	2579.7	1780.8	927.4	518.3	432.5	397.5	385.8	385.8
22.5°	3203.1	3094.0	2852.4	2349.7	1293.7	545.5	409.2	362.4	327.3	315.6	315.6
25°	3281.1	3140.8	2860.2	2057.5	830.0	413.1	346.8	300.1	265.0	249.4	249.4
27.5°	3405.8	3246.0	2903.1	1718.5	522.2	354.6	292.3	241.6	214.3	198.7	198.7
30°	3546.1	3362.9	2922.6	1328.8	389.7	300.1	237.7	190.9	171.5	159.8	155.9
32.5°	3791.5	3565.5	2907.0	911.8	319.5	253.3	190.9	152.0	136.4	132.5	132.5
35°	4185.1	3920.1	2875.8	572.8	265.0	202.6	152.0	124.7	113.0	109.1	105.2
37.5°	4719.0	4438.4	2782.3	378.0	218.2	159.8	124.7	105.2	93.5	89.6	89.6
40°	5369.7	5030.7	2603.0	288.4	187.0	128.6	105.2	89.6	81.8	77.9	77.9
42.5°	6114.0	5689.3	2318.6	249.4	155.9	109.1	89.6	74.0	70.1	66.2	66.2
45°	6928.4	6379.0	1925.0	222.1	132.5	89.6	74.0	66.2	58.5	58.5	54.6
47.5°	7793.5	7072.6	1480.8	194.8	113.0	77.9	66.2	54.6	50.7	46.8	46.8
50°	8627.4	7692.2	1040.4	167.6	93.5	66.2	54.6	46.8	42.9	39.0	39.0
52.5°	9215.8	8066.3	736.5	144.2	77.9	58.5	42.9	35.1	31.2	31.2	31.2
55°	9687.3	8300.1	514.4	120.8	66.2	50.7	35.1	27.3	27.3	23.4	23.4
57.5°	10131.6	8452.1	378.0	101.3	54.6	39.0	27.3	19.5	19.5	15.6	15.6
60°	10591.4	8533.9	288.4	81.8	46.8	31.2	19.5	15.6	11.7	11.7	11.7
62.5°	11055.1	8584.6	222.1	66.2	39.0	23.4	15.6	11.7	7.8	3.9	3.9
65°	11460.4	8600.2	171.5	50.7	31.2	15.6	11.7	3.9	0.0	0.0	0.0
67.5°	11581.2	8420.9	132.5	39.0	23.4	11.7	7.8	0.0	0.0	0.0	0.0
70°	11253.8	7945.5	101.3	31.2	19.5	7.8	3.9	0.0	0.0	0.0	0.0
72.5°	9987.4	6663.5	77.9	19.5	15.6	7.8	3.9	0.0	0.0	0.0	0.0
75°	7146.7	3553.8	54.6	15.6	11.7	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	3288.9	1375.6	39.0	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
80°	643.0	342.9	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	148.1	58.5	7.8	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.7	19.5	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	7.8	3.9	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)