

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: P400067

Luminaire Tested: **ARCH-L-PA3-230-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400067
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-PA3-230-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 980mA 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: 19967 lumens
Efficiency: N/A
Efficacy: 87.2 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

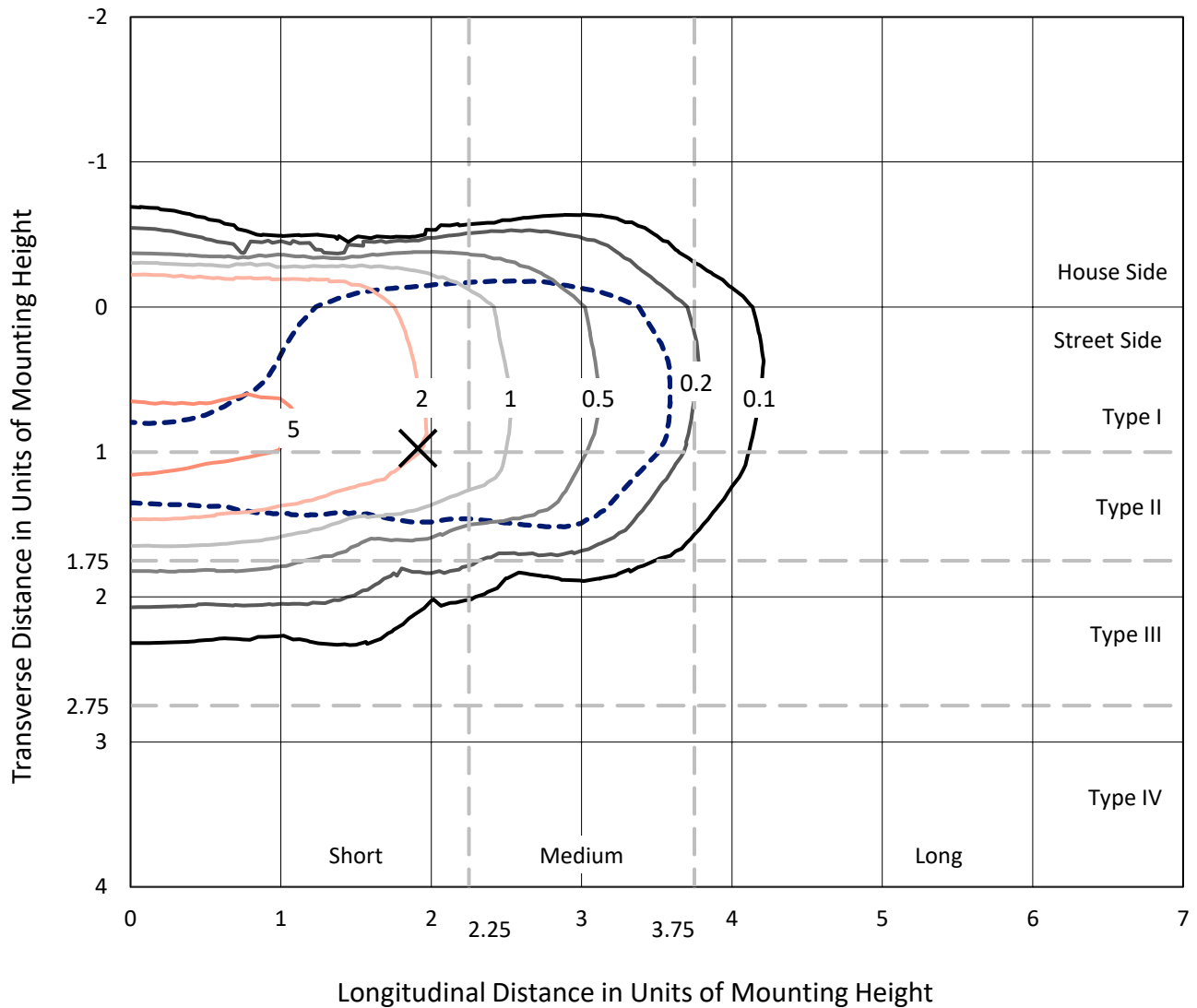
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

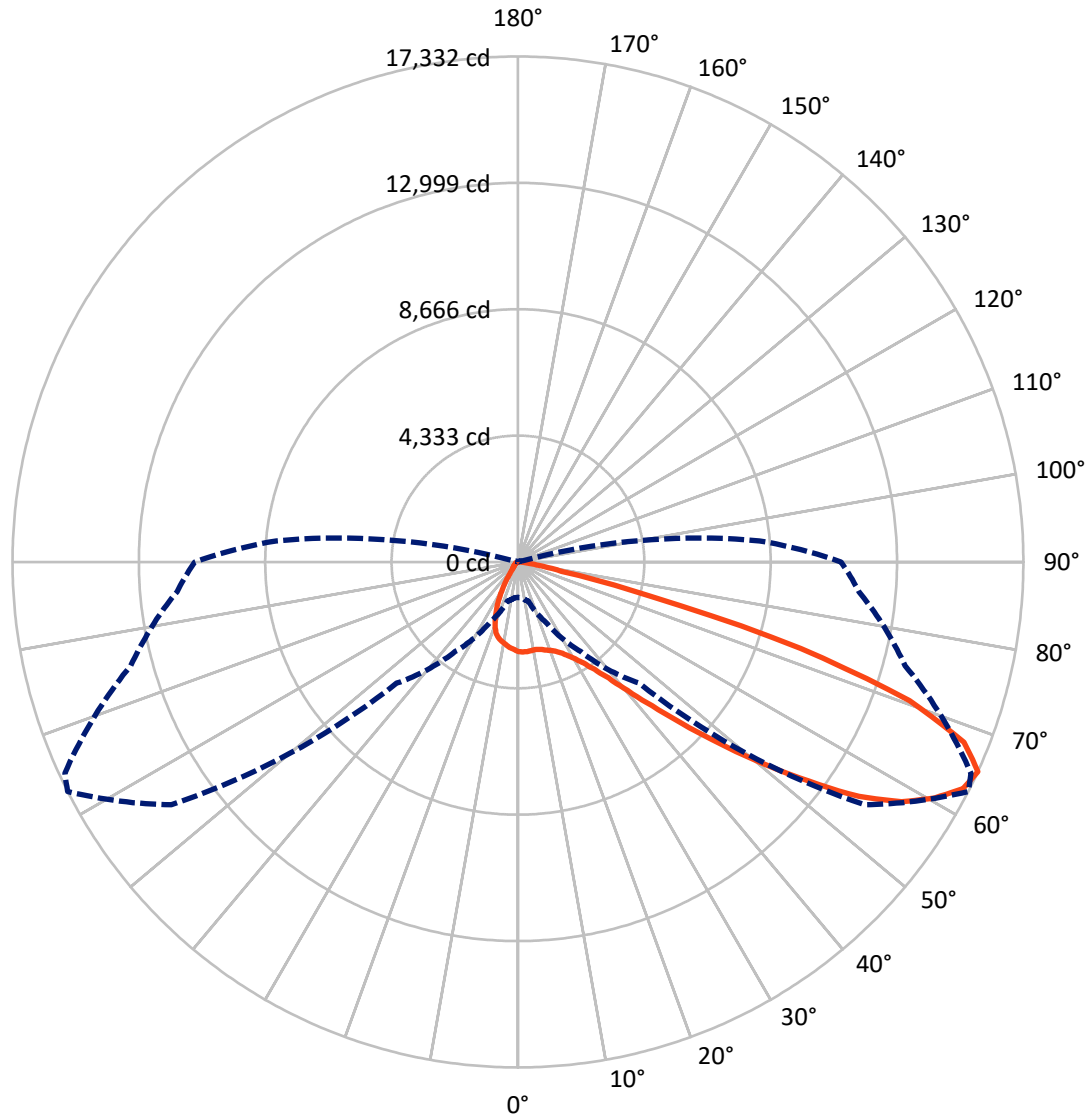
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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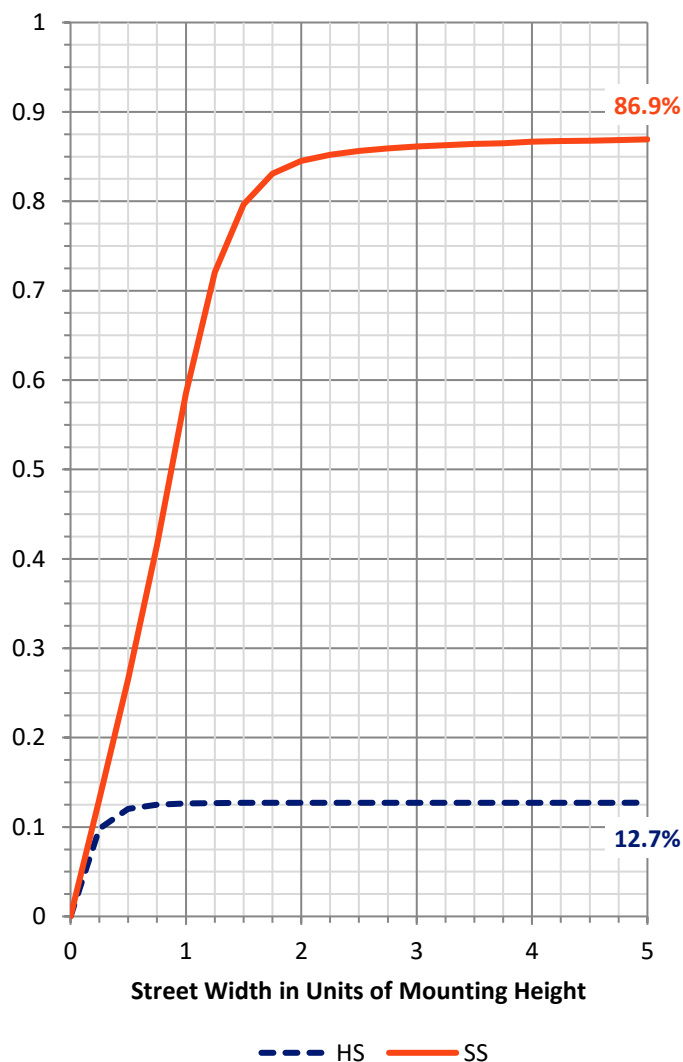
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2569.7	0.0	2569.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	17397.3	0.0	17397.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	19967.0	0.0	19967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	1.4
10°-20°	692.4	3.5
20°-30°	1026.2	5.1
30°-40°	1905.5	9.5
40°-50°	4036.6	20.2
50°-60°	5581.6	28.0
60°-70°	4468.3	22.4
70°-80°	1856.5	9.3
80°-90°	119.2	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°	19967.0	100.0
0°-180°	19967.0	100.0

Coefficient of Utilization



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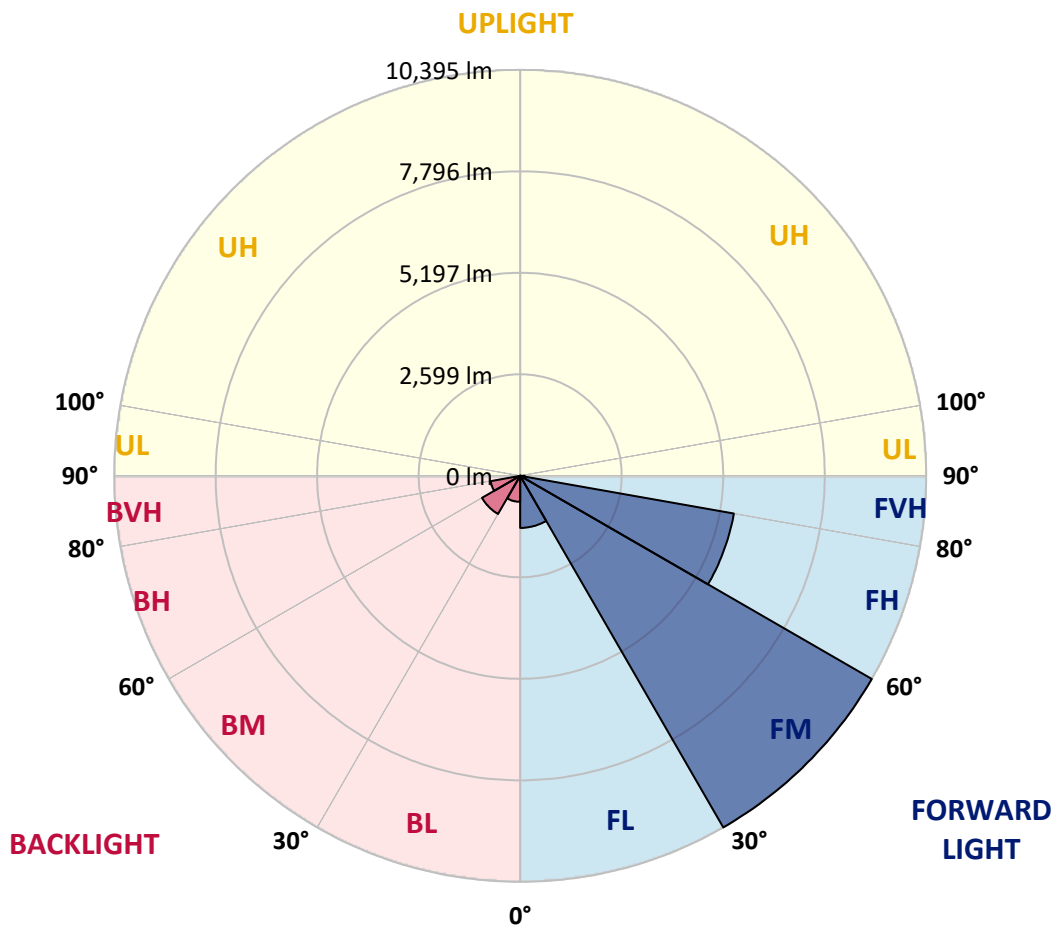
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.3	6.7			
FM (30°-60°)	10394.9	52.1			
FH (60°-80°)	5555.3	27.8			G3/7500
FVH (80°-90°)	113.8	0.6			G2/225
BL (0°-30°)	666.0	3.3	B2/1000		
BM (30°-60°)	1128.8	5.7	B2/2500		
BH (60°-80°)	769.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9
2.5°	3128.7	3121.2	3113.6	3109.9	3109.9	3106.1	3091.0	3087.2	3079.7	3072.2	3064.6
5°	3098.5	3087.2	3083.5	3087.2	3091.0	3098.5	3091.0	3091.0	3083.5	3075.9	3060.8
7.5°	3023.2	3015.6	3019.4	3030.7	3034.5	3060.8	3064.6	3075.9	3075.9	3068.4	3057.1
10°	2932.7	2928.9	2928.9	2947.8	2966.6	3004.3	3030.7	3060.8	3064.6	3064.6	3045.8
12.5°	2864.8	2861.1	2872.4	2895.0	2932.7	2981.7	3026.9	3072.2	3079.7	3083.5	3053.3
15°	2823.4	2823.4	2838.4	2883.7	2936.5	3004.3	3057.1	3117.4	3124.9	3121.2	3079.7
17.5°	2785.7	2789.4	2819.6	2895.0	2955.3	3045.8	3109.9	3177.7	3181.5	3177.7	3109.9
20°	2770.6	2778.1	2823.4	2921.4	2989.2	3091.0	3173.9	3241.8	3245.6	3230.5	3140.0
22.5°	2812.1	2815.8	2872.4	2977.9	3042.0	3155.1	3260.6	3324.7	3328.5	3305.9	3185.2
25°	2955.3	2955.3	3004.3	3094.8	3151.3	3264.4	3377.5	3452.9	3452.9	3426.5	3287.0
27.5°	3290.8	3260.6	3249.3	3275.7	3294.6	3415.2	3535.8	3630.0	3626.3	3588.6	3419.0
30°	3939.1	3863.8	3743.1	3607.4	3539.6	3622.5	3735.6	3856.2	3852.4	3792.1	3581.0
32.5°	5028.5	4919.2	4632.7	4274.6	3984.4	3890.1	3995.7	4127.6	4131.4	4059.8	3841.1
35°	6555.2	6381.8	5869.1	5371.6	4708.1	4350.0	4380.2	4523.4	4568.7	4531.0	4278.4
37.5°	8025.3	7867.0	7376.9	6687.1	5786.2	5054.9	4926.8	5051.2	5103.9	5103.9	4836.3
40°	9506.7	9322.0	8888.5	8194.9	7245.0	6155.6	5695.7	5797.5	5854.1	5865.4	5514.8
42.5°	10694.1	10573.5	10241.8	9702.7	8813.1	8085.6	6804.0	6747.4	6800.2	6758.7	6302.6
45°	11515.9	11421.6	11191.7	10988.1	10554.7	10189.0	8285.4	7904.7	7938.6	7795.4	7188.5
47.5°	11685.5	11580.0	11531.0	11813.7	12122.8	12213.2	10106.1	9280.6	9246.6	8930.0	8108.2
50°	10946.7	10958.0	11138.9	11945.6	13234.8	14049.0	12217.0	10833.6	10709.2	10004.3	8963.9
52.5°	9352.2	9533.1	9989.2	11297.2	13574.0	15383.4	14327.9	12480.9	12288.6	11048.5	9604.7
55°	7316.6	7550.3	8300.5	9804.5	12865.4	15979.0	16107.2	14192.2	13755.0	11832.5	10102.3
57.5°	5439.4	5511.0	6385.6	7757.7	11187.9	15394.7	17019.4	15511.6	14949.9	12458.3	10596.1
60°	3388.8	3434.0	4357.6	5906.8	8473.9	13234.8	17019.4	16420.0	15884.8	13019.9	11048.5
62.5°	2107.2	2122.2	2469.0	4048.5	5759.8	9815.8	16314.5	17124.9	16695.2	13423.3	11436.7
65°	1213.8	1228.9	1391.0	2288.1	3746.9	5876.7	14512.6	17332.2	17140.0	13743.7	11738.3
67.5°	885.8	893.4	957.5	1285.4	2450.2	3019.4	10901.4	16499.2	16740.4	13902.0	11730.7
70°	769.0	780.3	863.2	1002.7	1767.9	1854.6	5548.7	14248.8	14923.5	13675.8	11380.2
72.5°	591.8	606.9	731.3	942.4	1296.7	1334.4	2009.2	10140.0	11161.5	12262.2	10418.9
75°	407.1	422.2	546.6	776.5	1070.5	998.9	1104.5	4666.7	5888.0	8225.1	7931.1
77.5°	260.1	263.9	343.0	565.4	923.5	708.7	757.7	1522.9	2137.3	3720.5	3743.1
80°	173.4	177.2	211.1	365.6	633.3	655.9	467.4	704.9	772.8	1085.6	753.9
82.5°	105.5	105.5	143.2	229.9	384.5	542.8	305.3	369.4	395.8	418.4	196.0
85°	41.5	41.5	86.7	150.8	241.2	252.6	192.2	214.9	226.2	245.0	90.5
87.5°	11.3	11.3	49.0	82.9	105.5	116.9	116.9	105.5	113.1	139.5	45.2
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°	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9
2.5°	3060.8	3049.5	3034.5	3019.4	3004.3	2993.0	2981.7	2981.7	2974.2	2962.8	2955.3
5°	3053.3	3034.5	3000.5	2974.2	2932.7	2902.5	2879.9	2861.1	2849.8	2823.4	2819.6
7.5°	3042.0	3019.4	2970.4	2917.6	2849.8	2797.0	2744.2	2706.5	2668.8	2638.7	2631.1
10°	3023.2	2996.8	2925.1	2849.8	2755.5	2657.5	2533.1	2389.9	2257.9	2182.6	2159.9
12.5°	3023.2	2989.2	2895.0	2793.2	2657.5	2416.3	2099.6	1783.0	1538.0	1428.6	1398.5
15°	3042.0	2996.8	2872.4	2732.9	2480.3	1990.3	1477.7	1059.2	791.6	708.7	689.8
17.5°	3060.8	2996.8	2838.4	2650.0	2156.2	1443.7	840.6	557.9	471.2	452.3	452.3
20°	3068.4	2989.2	2793.2	2495.4	1722.7	897.1	501.3	418.4	384.5	373.2	373.2
22.5°	3098.5	2993.0	2759.3	2273.0	1251.5	527.7	395.8	350.6	316.6	305.3	305.3
25°	3173.9	3038.2	2766.8	1990.3	802.9	399.6	335.5	290.3	256.3	241.2	241.2
27.5°	3294.6	3140.0	2808.3	1662.4	505.1	343.0	282.7	233.7	207.3	192.2	192.2
30°	3430.3	3253.1	2827.1	1285.4	377.0	290.3	229.9	184.7	165.9	154.6	150.8
32.5°	3667.7	3449.1	2812.1	882.1	309.1	245.0	184.7	147.0	131.9	128.2	128.2
35°	4048.5	3792.1	2781.9	554.1	256.3	196.0	147.0	120.6	109.3	105.5	101.8
37.5°	4564.9	4293.5	2691.4	365.6	211.1	154.6	120.6	101.8	90.5	86.7	86.7
40°	5194.4	4866.4	2518.0	278.9	180.9	124.4	101.8	86.7	79.2	75.4	75.4
42.5°	5914.4	5503.5	2242.9	241.2	150.8	105.5	86.7	71.6	67.9	64.1	64.1
45°	6702.2	6170.7	1862.1	214.9	128.2	86.7	71.6	64.1	56.5	56.5	52.8
47.5°	7539.0	6841.7	1432.4	188.5	109.3	75.4	64.1	52.8	49.0	45.2	45.2
50°	8345.7	7441.0	1006.5	162.1	90.5	64.1	52.8	45.2	41.5	37.7	37.7
52.5°	8914.9	7802.9	712.4	139.5	75.4	56.5	41.5	33.9	30.2	30.2	30.2
55°	9371.0	8029.1	497.6	116.9	64.1	49.0	33.9	26.4	26.4	22.6	22.6
57.5°	9800.7	8176.1	365.6	98.0	52.8	37.7	26.4	18.8	18.8	15.1	15.1
60°	10245.6	8255.2	278.9	79.2	45.2	30.2	18.8	15.1	11.3	11.3	11.3
62.5°	10694.1	8304.2	214.9	64.1	37.7	22.6	15.1	11.3	7.5	3.8	3.8
65°	11086.2	8319.3	165.9	49.0	30.2	15.1	11.3	3.8	0.0	0.0	0.0
67.5°	11203.0	8145.9	128.2	37.7	22.6	11.3	7.5	0.0	0.0	0.0	0.0
70°	10886.4	7686.0	98.0	30.2	18.8	7.5	3.8	0.0	0.0	0.0	0.0
72.5°	9661.3	6445.9	75.4	18.8	15.1	7.5	3.8	0.0	0.0	0.0	0.0
75°	6913.3	3437.8	52.8	15.1	11.3	3.8	0.0	0.0	0.0	0.0	0.0
77.5°	3181.5	1330.6	37.7	11.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0
80°	622.0	331.7	15.1	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	143.2	56.5	7.5	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.0	18.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.8	7.5	3.8	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)