

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: P400346

Luminaire Tested: **ARCH-L-PA3-270-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400346
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-PA3-270-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA 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: 20394 lumens
Efficiency: N/A
Efficacy: 74.7 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

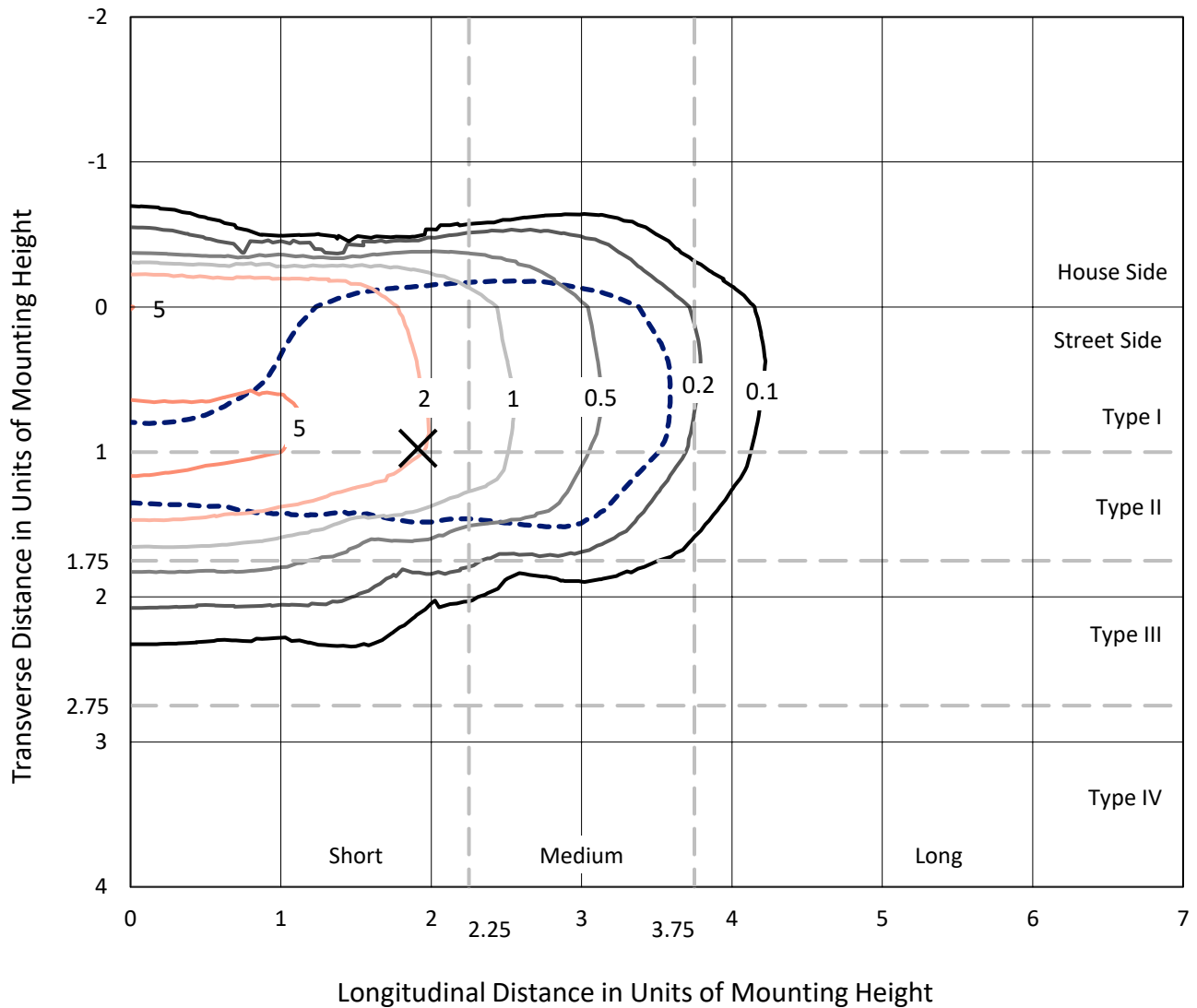
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

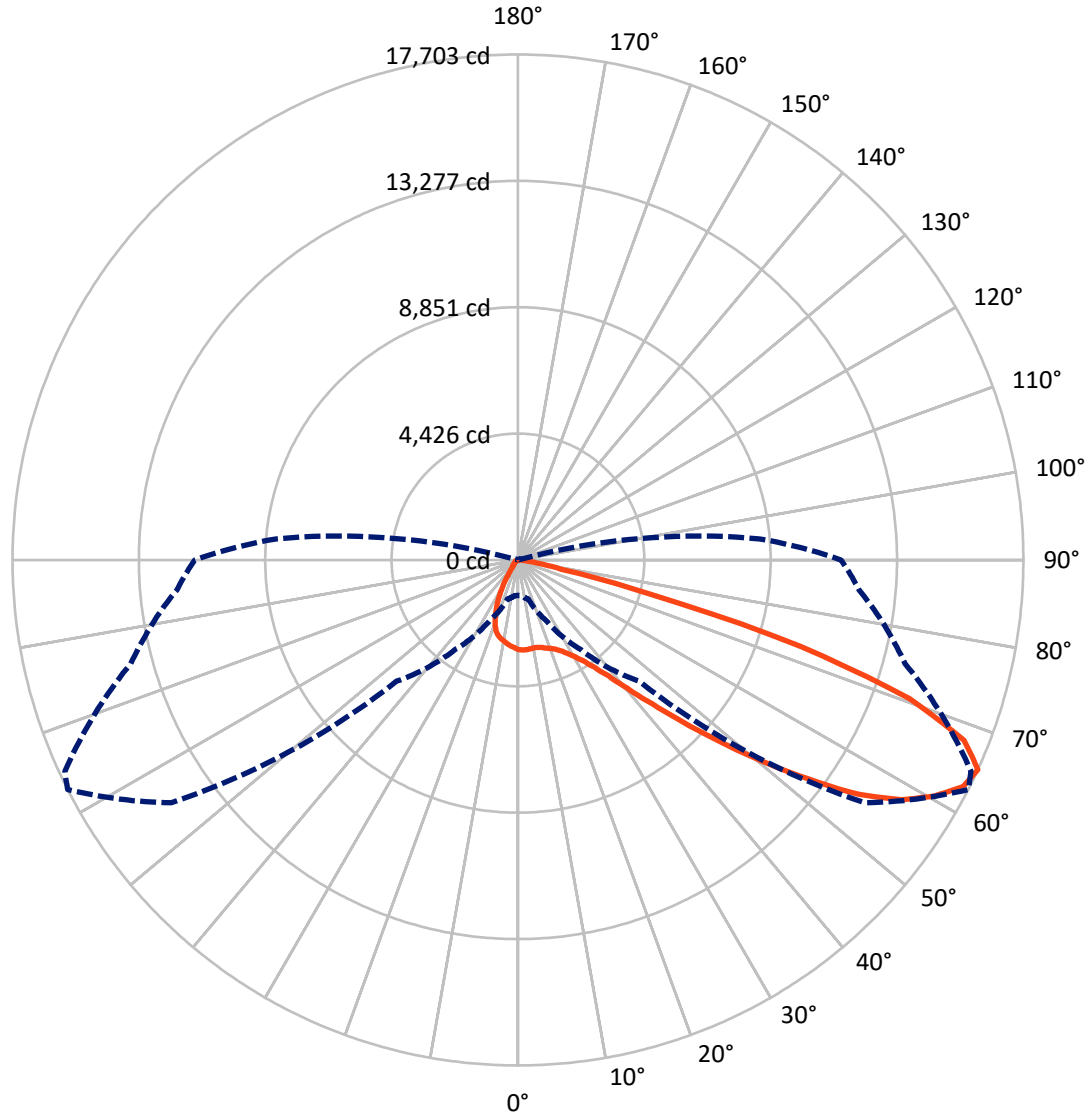
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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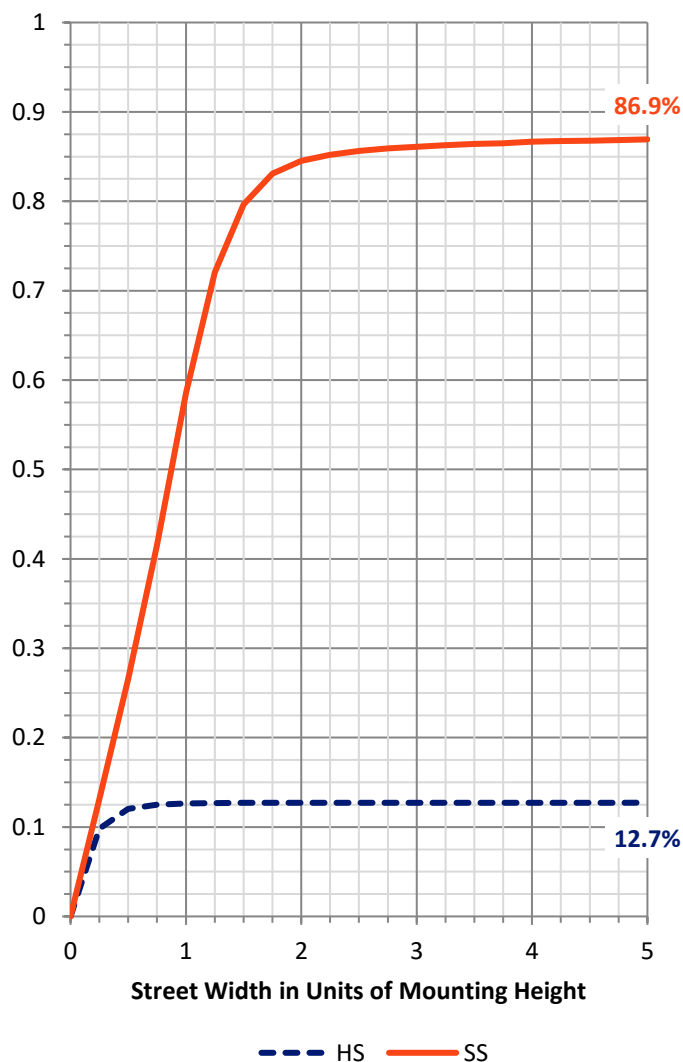
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2624.7	0.0	2624.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	17769.3	0.0	17769.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	20394.0	0.0	20394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	1.4
10°-20°	707.2	3.5
20°-30°	1048.2	5.1
30°-40°	1946.2	9.5
40°-50°	4123.0	20.2
50°-60°	5701.0	28.0
60°-70°	4563.8	22.4
70°-80°	1896.2	9.3
80°-90°	121.8	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°	20394.0	100.0
0°-180°	20394.0	100.0

Coefficient of Utilization



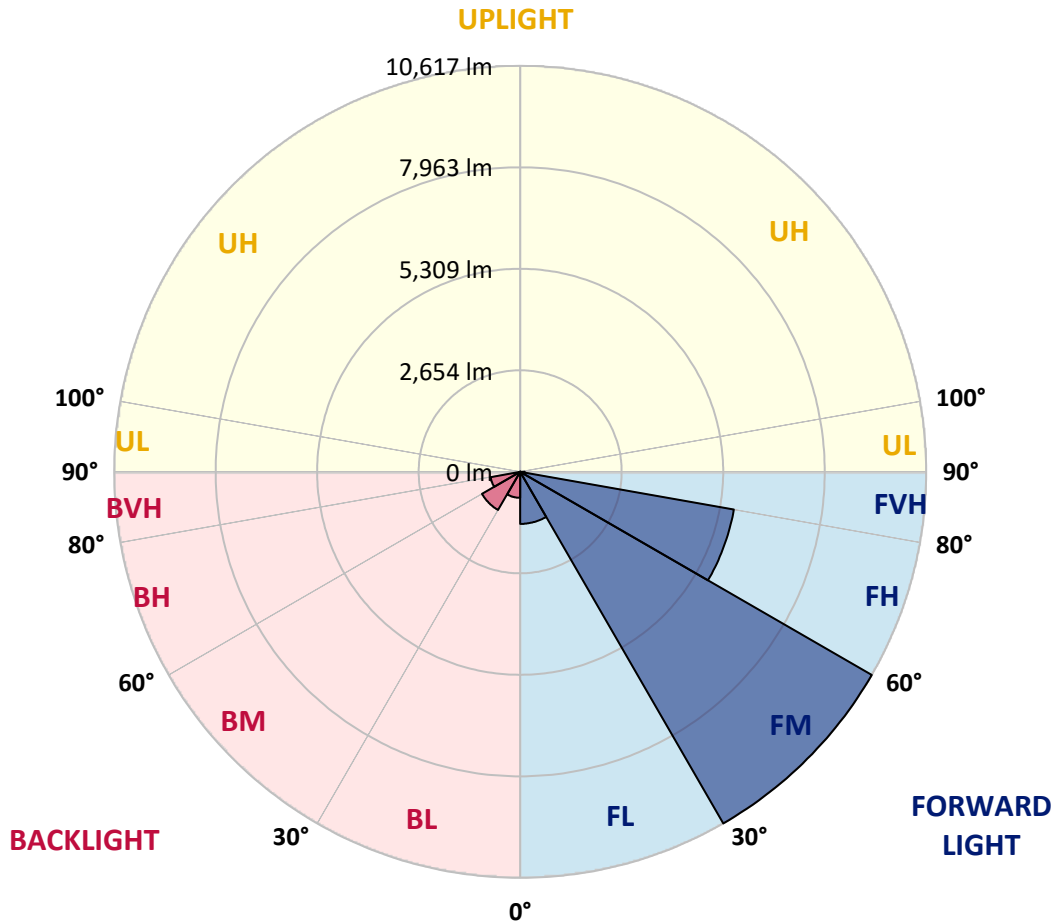
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.8	6.7			
FM (30°-60°)	10617.2	52.1			
FH (60°-80°)	5674.1	27.8			G3/7500
FVH (80°-90°)	116.2	0.6			G2/225
BL (0°-30°)	680.2	3.3	B2/1000		
BM (30°-60°)	1153.0	5.7	B2/2500		
BH (60°-80°)	785.9	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°	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7
2.5°	3195.6	3187.9	3180.2	3176.4	3176.4	3172.5	3157.1	3153.3	3145.6	3137.9	3130.2
5°	3164.8	3153.3	3149.4	3153.3	3157.1	3164.8	3157.1	3157.1	3149.4	3141.7	3126.3
7.5°	3087.8	3080.1	3084.0	3095.5	3099.4	3126.3	3130.2	3141.7	3141.7	3134.0	3122.5
10°	2995.4	2991.6	2991.6	3010.8	3030.1	3068.6	3095.5	3126.3	3130.2	3130.2	3110.9
12.5°	2926.1	2922.2	2933.8	2956.9	2995.4	3045.5	3091.7	3137.9	3145.6	3149.4	3118.6
15°	2883.7	2883.7	2899.1	2945.3	2999.3	3068.6	3122.5	3184.1	3191.8	3187.9	3145.6
17.5°	2845.2	2849.1	2879.9	2956.9	3018.5	3110.9	3176.4	3245.7	3249.5	3245.7	3176.4
20°	2829.8	2837.5	2883.7	2983.9	3053.2	3157.1	3241.8	3311.1	3315.0	3299.6	3207.2
22.5°	2872.2	2876.0	2933.8	3041.6	3107.1	3222.6	3330.4	3395.8	3399.7	3376.6	3253.4
25°	3018.5	3018.5	3068.6	3161.0	3218.7	3334.2	3449.7	3526.7	3526.7	3499.8	3357.3
27.5°	3361.2	3330.4	3318.8	3345.8	3365.0	3488.2	3611.4	3707.7	3703.8	3665.3	3492.1
30°	4023.4	3946.4	3823.2	3684.6	3615.3	3700.0	3815.5	3938.7	3934.8	3873.2	3657.6
32.5°	5136.1	5024.4	4731.8	4366.0	4069.6	3973.3	4081.1	4215.9	4219.7	4146.6	3923.3
35°	6695.4	6518.3	5994.7	5486.4	4808.8	4443.1	4473.9	4620.2	4666.4	4627.9	4369.9
37.5°	8196.9	8035.2	7534.7	6830.1	5910.0	5163.0	5032.1	5159.2	5213.1	5213.1	4939.7
40°	9710.0	9521.4	9078.6	8370.2	7400.0	6287.3	5817.5	5921.5	5979.3	5990.8	5632.7
42.5°	10922.8	10799.6	10460.8	9910.2	9001.6	8258.5	6949.5	6891.7	6945.6	6903.3	6437.4
45°	11762.1	11665.9	11431.0	11223.1	10780.4	10406.9	8462.6	8073.7	8108.4	7962.1	7342.2
47.5°	11935.4	11827.6	11777.5	12066.3	12382.0	12474.4	10322.2	9479.0	9444.4	9121.0	8281.6
50°	11180.8	11192.3	11377.1	12201.1	13517.8	14349.4	12478.3	11065.3	10938.2	10218.2	9155.6
52.5°	9552.2	9737.0	10202.8	11538.8	13864.3	15712.4	14634.3	12747.8	12551.4	11284.7	9810.1
55°	7473.1	7711.8	8478.0	10014.2	13140.5	16320.7	16451.6	14495.7	14049.1	12085.6	10318.4
57.5°	5555.7	5628.9	6522.1	7923.6	11427.2	15723.9	17383.3	15843.3	15269.6	12724.7	10822.7
60°	3461.3	3507.5	4450.8	6033.2	8655.1	13517.8	17383.3	16771.2	16224.5	13298.4	11284.7
62.5°	2152.2	2167.6	2521.8	4135.0	5883.0	10025.7	16663.4	17491.1	17052.2	13710.3	11681.3
65°	1239.7	1255.1	1420.7	2337.0	3827.0	6002.4	14823.0	17702.9	17506.5	14037.6	11989.3
67.5°	904.8	912.5	977.9	1312.9	2502.6	3084.0	11134.6	16852.0	17098.4	14199.3	11981.6
70°	785.4	797.0	881.7	1024.1	1805.7	1894.3	5667.4	14553.5	15242.7	13968.3	11623.5
72.5°	604.5	619.9	746.9	962.5	1324.4	1362.9	2052.1	10356.9	11400.2	12524.5	10641.8
75°	415.8	431.2	558.3	793.1	1093.4	1020.3	1128.1	4766.5	6013.9	8401.0	8100.7
77.5°	265.7	269.5	350.4	577.5	943.3	723.8	773.9	1555.5	2183.0	3800.1	3823.2
80°	177.1	181.0	215.6	373.5	646.8	669.9	477.4	720.0	789.3	1108.8	770.0
82.5°	107.8	107.8	146.3	234.9	392.7	554.4	311.9	377.3	404.3	427.4	200.2
85°	42.4	42.4	88.6	154.0	246.4	258.0	196.4	219.5	231.0	250.3	92.4
87.5°	11.6	11.6	50.1	84.7	107.8	119.4	119.4	107.8	115.5	142.5	46.2
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°	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7
2.5°	3126.3	3114.8	3099.4	3084.0	3068.6	3057.0	3045.5	3045.5	3037.8	3026.2	3018.5
5°	3118.6	3099.4	3064.7	3037.8	2995.4	2964.6	2941.5	2922.2	2910.7	2883.7	2879.9
7.5°	3107.1	3084.0	3033.9	2980.0	2910.7	2856.8	2802.9	2764.4	2725.9	2695.1	2687.4
10°	3087.8	3060.9	2987.7	2910.7	2814.4	2714.3	2587.3	2441.0	2306.2	2229.2	2206.1
12.5°	3087.8	3053.2	2956.9	2852.9	2714.3	2467.9	2144.5	1821.1	1570.9	1459.2	1428.4
15°	3107.1	3060.9	2933.8	2791.3	2533.4	2032.9	1509.3	1081.9	808.5	723.8	704.6
17.5°	3126.3	3060.9	2899.1	2706.6	2202.3	1474.6	858.6	569.8	481.3	462.0	462.0
20°	3134.0	3053.2	2852.9	2548.8	1759.5	916.3	512.1	427.4	392.7	381.2	381.2
22.5°	3164.8	3057.0	2818.3	2321.6	1278.2	539.0	404.3	358.1	323.4	311.9	311.9
25°	3241.8	3103.2	2826.0	2032.9	820.1	408.1	342.7	296.5	261.8	246.4	246.4
27.5°	3365.0	3207.2	2868.3	1697.9	515.9	350.4	288.8	238.7	211.8	196.4	196.4
30°	3503.6	3322.7	2887.6	1312.9	385.0	296.5	234.9	188.7	169.4	157.9	154.0
32.5°	3746.2	3522.9	2872.2	900.9	315.7	250.3	188.7	150.2	134.8	130.9	130.9
35°	4135.0	3873.2	2841.4	566.0	261.8	200.2	150.2	123.2	111.7	107.8	104.0
37.5°	4662.5	4385.3	2749.0	373.5	215.6	157.9	123.2	104.0	92.4	88.6	88.6
40°	5305.5	4970.5	2571.9	284.9	184.8	127.1	104.0	88.6	80.9	77.0	77.0
42.5°	6040.9	5621.2	2290.8	246.4	154.0	107.8	88.6	73.2	69.3	65.5	65.5
45°	6845.5	6302.7	1902.0	219.5	130.9	88.6	73.2	65.5	57.8	57.8	53.9
47.5°	7700.3	6988.0	1463.0	192.5	111.7	77.0	65.5	53.9	50.1	46.2	46.2
50°	8524.2	7600.2	1028.0	165.6	92.4	65.5	53.9	46.2	42.4	38.5	38.5
52.5°	9105.6	7969.8	727.7	142.5	77.0	57.8	42.4	34.7	30.8	30.8	30.8
55°	9571.4	8200.8	508.2	119.4	65.5	50.1	34.7	27.0	27.0	23.1	23.1
57.5°	10010.3	8350.9	373.5	100.1	53.9	38.5	27.0	19.3	19.3	15.4	15.4
60°	10464.7	8431.8	284.9	80.9	46.2	30.8	19.3	15.4	11.6	11.6	11.6
62.5°	10922.8	8481.8	219.5	65.5	38.5	23.1	15.4	11.6	7.7	3.9	3.9
65°	11323.2	8497.2	169.4	50.1	30.8	15.4	11.6	3.9	0.0	0.0	0.0
67.5°	11442.6	8320.1	130.9	38.5	23.1	11.6	7.7	0.0	0.0	0.0	0.0
70°	11119.2	7850.4	100.1	30.8	19.3	7.7	3.9	0.0	0.0	0.0	0.0
72.5°	9867.9	6583.7	77.0	19.3	15.4	7.7	3.9	0.0	0.0	0.0	0.0
75°	7061.1	3511.3	53.9	15.4	11.6	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	3249.5	1359.1	38.5	11.6	7.7	3.9	0.0	0.0	0.0	0.0	0.0
80°	635.3	338.8	15.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	146.3	57.8	7.7	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.1	19.3	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	7.7	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)