

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: P399923

Luminaire Tested: **ARCH-L-PA3-210-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399923
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-PA3-210-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA 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: 18819 lumens
Efficiency: N/A
Efficacy: 89.2 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

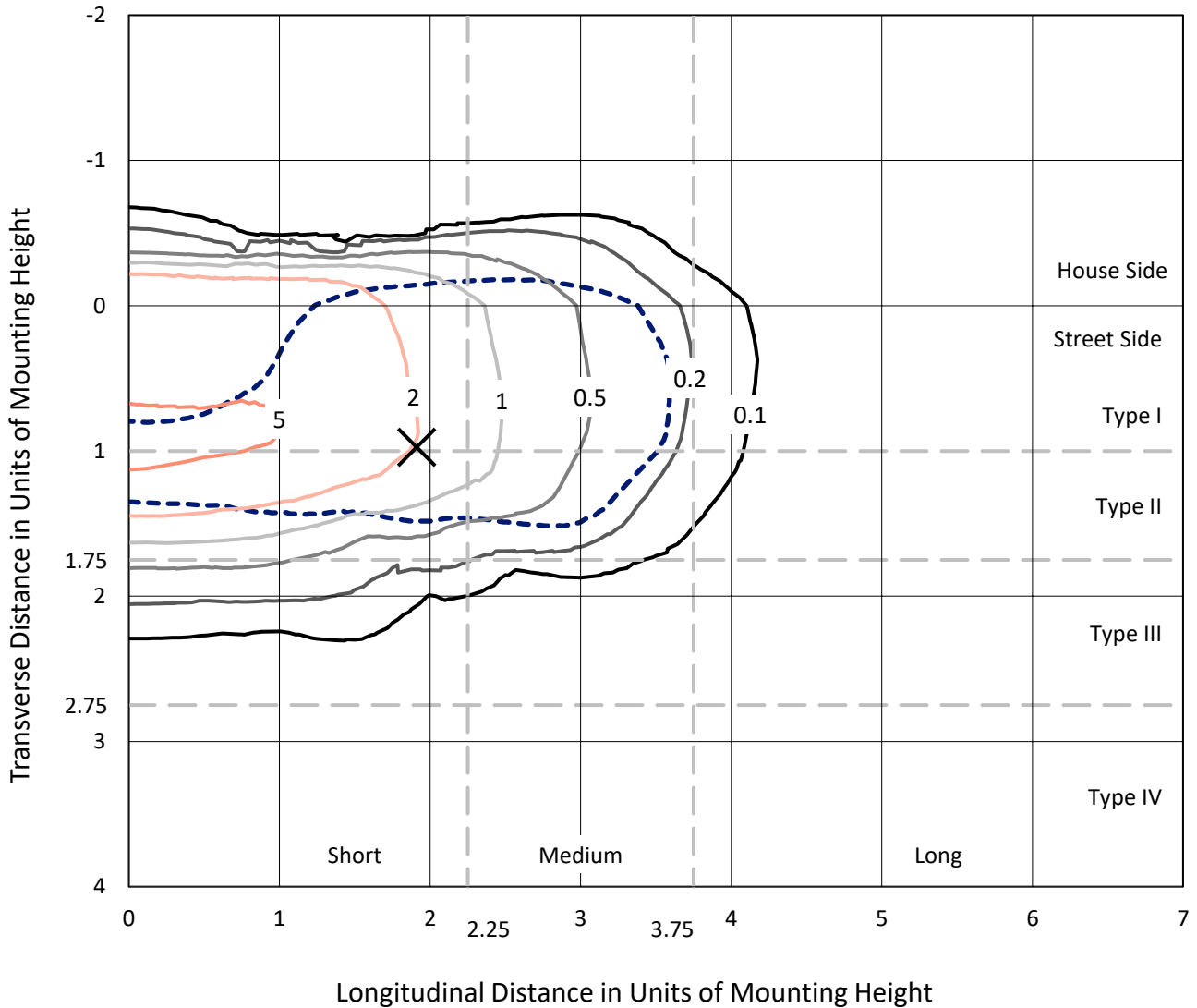
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

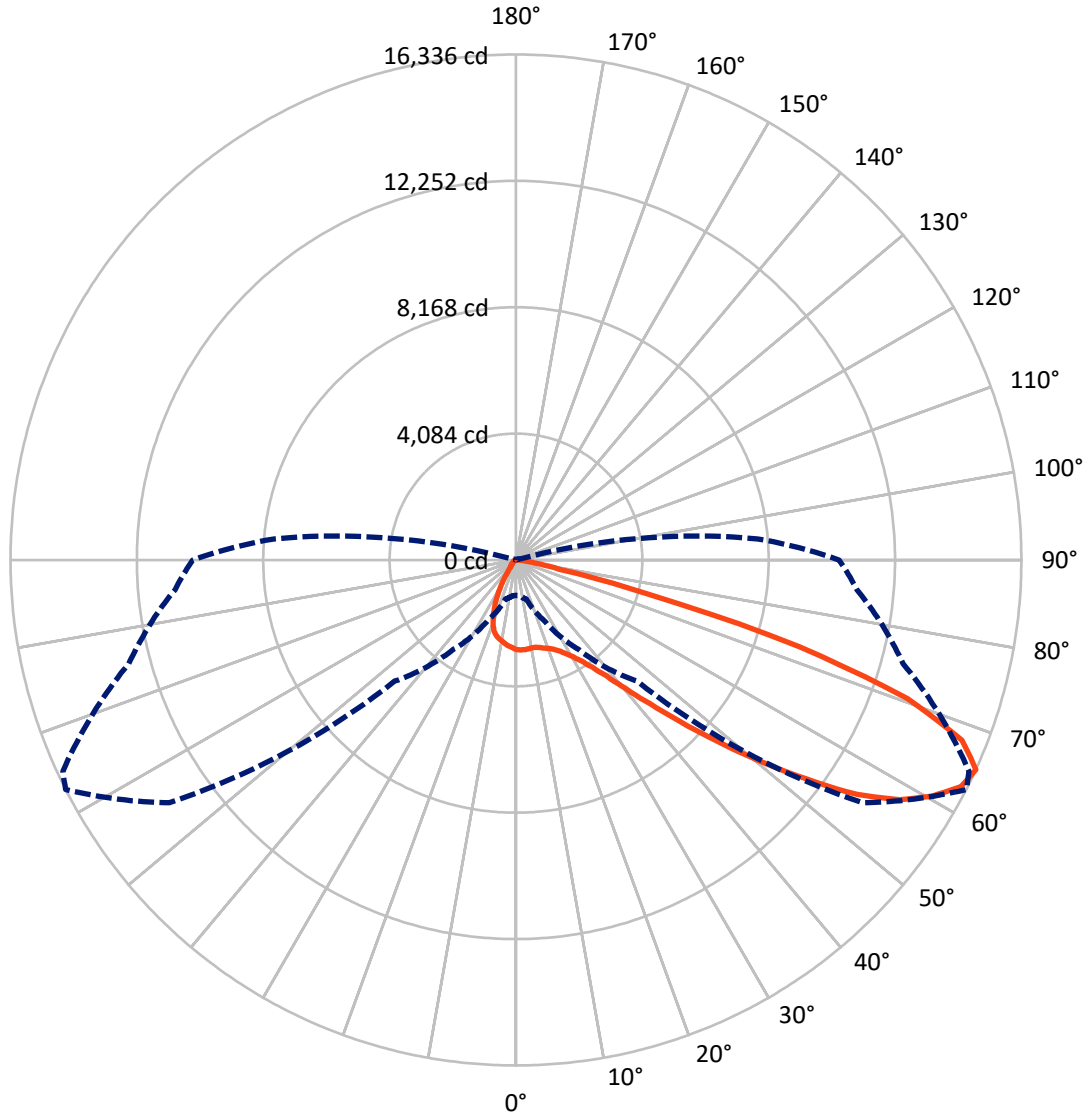
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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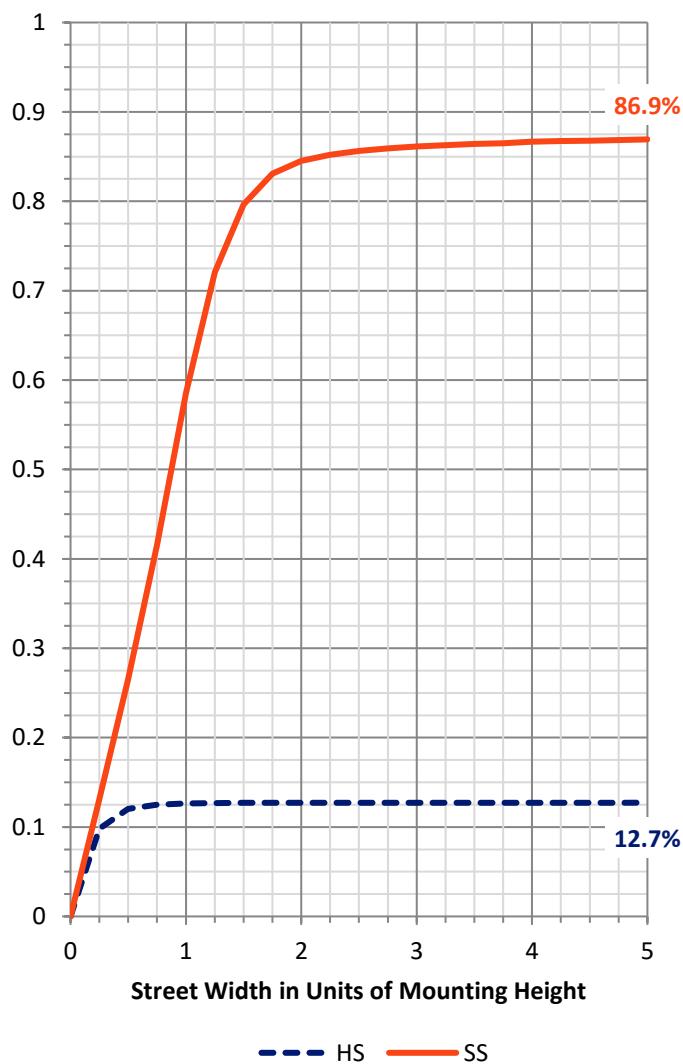
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2422.0	0.0	2422.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16397.0	0.0	16397.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	18819.0	0.0	18819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.5	1.4
10°-20°	652.6	3.5
20°-30°	967.2	5.1
30°-40°	1795.9	9.5
40°-50°	3804.6	20.2
50°-60°	5260.7	28.0
60°-70°	4211.4	22.4
70°-80°	1749.7	9.3
80°-90°	112.4	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°	18819.0	100.0
0°-180°	18819.0	100.0

Coefficient of Utilization



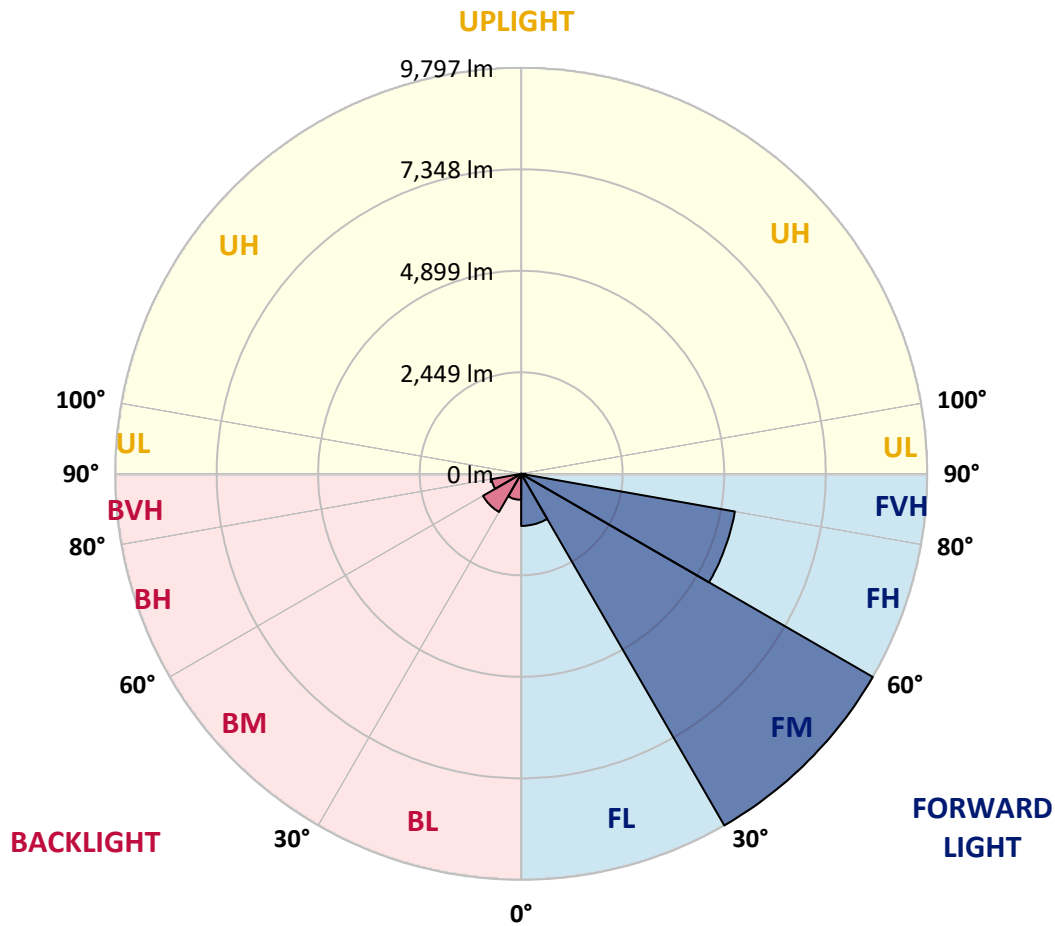
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1256.7	6.7			
FM (30°-60°)	9797.3	52.1			
FH (60°-80°)	5235.9	27.8			G3/7500
FVH (80°-90°)	107.2	0.6			G2/225
BL (0°-30°)	627.7	3.3	B2/1000		
BM (30°-60°)	1063.9	5.7	B2/2500		
BH (60°-80°)	725.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.1	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°	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1
2.5°	2948.8	2941.7	2934.6	2931.1	2931.1	2927.5	2913.3	2909.7	2902.6	2895.5	2888.4
5°	2920.4	2909.7	2906.2	2909.7	2913.3	2920.4	2913.3	2913.3	2906.2	2899.1	2884.9
7.5°	2849.3	2842.2	2845.8	2856.4	2860.0	2884.9	2888.4	2899.1	2899.1	2892.0	2881.3
10°	2764.1	2760.5	2760.5	2778.3	2796.0	2831.6	2856.4	2884.9	2888.4	2888.4	2870.7
12.5°	2700.1	2696.6	2707.2	2728.5	2764.1	2810.3	2852.9	2895.5	2902.6	2906.2	2877.8
15°	2661.0	2661.0	2675.3	2717.9	2767.6	2831.6	2881.3	2938.2	2945.3	2941.7	2902.6
17.5°	2625.5	2629.1	2657.5	2728.5	2785.4	2870.7	2931.1	2995.0	2998.6	2995.0	2931.1
20°	2611.3	2618.4	2661.0	2753.4	2817.4	2913.3	2991.4	3055.4	3059.0	3044.7	2959.5
22.5°	2650.4	2653.9	2707.2	2806.7	2867.1	2973.7	3073.2	3133.6	3137.1	3115.8	3002.1
25°	2785.4	2785.4	2831.6	2916.8	2970.1	3076.7	3183.3	3254.4	3254.4	3229.5	3098.0
27.5°	3101.6	3073.2	3062.5	3087.4	3105.1	3218.8	3332.5	3421.3	3417.8	3382.3	3222.4
30°	3712.7	3641.6	3527.9	3400.0	3336.1	3414.2	3520.8	3634.5	3631.0	3574.1	3375.2
32.5°	4739.4	4636.4	4366.4	4028.9	3755.3	3666.5	3766.0	3890.3	3893.9	3826.4	3620.3
35°	6178.3	6014.9	5531.7	5062.7	4437.4	4099.9	4128.3	4263.3	4306.0	4270.5	4032.4
37.5°	7563.9	7414.7	6952.8	6302.7	5453.5	4764.3	4643.5	4760.7	4810.5	4810.5	4558.2
40°	8960.1	8786.1	8377.5	7723.8	6828.5	5801.7	5368.3	5464.2	5517.5	5528.1	5197.7
42.5°	10079.3	9965.6	9652.9	9144.9	8306.4	7620.7	6412.8	6359.5	6409.2	6370.2	5940.3
45°	10853.8	10765.0	10548.2	10356.4	9947.8	9603.2	7809.0	7450.2	7482.2	7347.2	6775.2
47.5°	11013.7	10914.2	10868.0	11134.4	11425.8	11511.0	9525.0	8747.0	8715.0	8416.6	7642.1
50°	10317.3	10328.0	10498.5	11258.8	12473.8	13241.3	11514.6	10210.7	10093.5	9429.1	8448.5
52.5°	8814.5	8985.0	9414.9	10647.7	12793.6	14498.9	13504.2	11763.3	11582.1	10413.2	9052.5
55°	6896.0	7116.2	7823.2	9240.8	12125.7	15060.3	15181.1	13376.3	12964.1	11152.2	9521.5
57.5°	5126.7	5194.2	6018.4	7311.6	10544.7	14509.6	16040.8	14619.7	14090.4	11742.0	9986.9
60°	3194.0	3236.6	4107.0	5567.2	7986.7	12473.8	16040.8	15476.0	14971.5	12271.3	10413.2
62.5°	1986.0	2000.2	2327.1	3815.7	5428.7	9251.5	15376.5	16140.3	15735.3	12651.5	10779.2
65°	1144.0	1158.2	1311.0	2156.5	3531.5	5538.8	13678.2	16335.7	16154.5	12953.5	11063.4
67.5°	834.9	842.0	902.4	1211.5	2309.3	2845.8	10274.7	15550.6	15777.9	13102.7	11056.3
70°	724.8	735.4	813.6	945.0	1666.3	1748.0	5229.7	13429.5	14065.5	12889.5	10725.9
72.5°	557.8	572.0	689.2	888.2	1222.2	1257.7	1893.6	9557.0	10519.8	11557.2	9819.9
75°	383.7	397.9	515.2	731.9	1009.0	941.5	1041.0	4398.4	5549.5	7752.2	7475.1
77.5°	245.1	248.7	323.3	532.9	870.4	667.9	714.1	1435.3	2014.4	3506.6	3527.9
80°	163.4	167.0	199.0	344.6	596.9	618.2	440.5	664.4	728.3	1023.2	710.6
82.5°	99.5	99.5	135.0	216.7	362.4	511.6	287.8	348.2	373.0	394.4	184.7
85°	39.1	39.1	81.7	142.1	227.4	238.0	181.2	202.5	213.2	230.9	85.3
87.5°	10.7	10.7	46.2	78.2	99.5	110.1	110.1	99.5	106.6	131.5	42.6
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°	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1
2.5°	2884.9	2874.2	2860.0	2845.8	2831.6	2820.9	2810.3	2810.3	2803.2	2792.5	2785.4
5°	2877.8	2860.0	2828.0	2803.2	2764.1	2735.6	2714.3	2696.6	2685.9	2661.0	2657.5
7.5°	2867.1	2845.8	2799.6	2749.9	2685.9	2636.2	2586.4	2550.9	2515.4	2487.0	2479.8
10°	2849.3	2824.5	2757.0	2685.9	2597.1	2504.7	2387.5	2252.5	2128.1	2057.1	2035.7
12.5°	2849.3	2817.4	2728.5	2632.6	2504.7	2277.3	1978.9	1680.5	1449.5	1346.5	1318.1
15°	2867.1	2824.5	2707.2	2575.8	2337.7	1875.9	1392.7	998.3	746.1	667.9	650.2
17.5°	2884.9	2824.5	2675.3	2497.6	2032.2	1360.7	792.3	525.8	444.1	426.3	426.3
20°	2892.0	2817.4	2632.6	2351.9	1623.6	845.6	472.5	394.4	362.4	351.7	351.7
22.5°	2920.4	2820.9	2600.6	2142.3	1179.5	497.4	373.0	330.4	298.4	287.8	287.8
25°	2991.4	2863.5	2607.7	1875.9	756.7	376.6	316.2	273.6	241.6	227.4	227.4
27.5°	3105.1	2959.5	2646.8	1566.8	476.1	323.3	266.5	220.3	195.4	181.2	181.2
30°	3233.0	3066.1	2664.6	1211.5	355.3	273.6	216.7	174.1	156.3	145.7	142.1
32.5°	3456.9	3250.8	2650.4	831.4	291.3	230.9	174.1	138.6	124.3	120.8	120.8
35°	3815.7	3574.1	2622.0	522.3	241.6	184.7	138.6	113.7	103.0	99.5	95.9
37.5°	4302.4	4046.6	2536.7	344.6	199.0	145.7	113.7	95.9	85.3	81.7	81.7
40°	4895.7	4586.7	2373.3	262.9	170.5	117.2	95.9	81.7	74.6	71.1	71.1
42.5°	5574.3	5187.1	2113.9	227.4	142.1	99.5	81.7	67.5	64.0	60.4	60.4
45°	6316.9	5815.9	1755.1	202.5	120.8	81.7	67.5	60.4	53.3	53.3	49.7
47.5°	7105.6	6448.3	1350.1	177.6	103.0	71.1	60.4	49.7	46.2	42.6	42.6
50°	7865.9	7013.2	948.6	152.8	85.3	60.4	49.7	42.6	39.1	35.5	35.5
52.5°	8402.3	7354.3	671.5	131.5	71.1	53.3	39.1	32.0	28.4	28.4	28.4
55°	8832.2	7567.4	469.0	110.1	60.4	46.2	32.0	24.9	24.9	21.3	21.3
57.5°	9237.3	7706.0	344.6	92.4	49.7	35.5	24.9	17.8	17.8	14.2	14.2
60°	9656.5	7780.6	262.9	74.6	42.6	28.4	17.8	14.2	10.7	10.7	10.7
62.5°	10079.3	7826.8	202.5	60.4	35.5	21.3	14.2	10.7	7.1	3.6	3.6
65°	10448.8	7841.0	156.3	46.2	28.4	14.2	10.7	3.6	0.0	0.0	0.0
67.5°	10558.9	7677.6	120.8	35.5	21.3	10.7	7.1	0.0	0.0	0.0	0.0
70°	10260.5	7244.1	92.4	28.4	17.8	7.1	3.6	0.0	0.0	0.0	0.0
72.5°	9105.8	6075.3	71.1	17.8	14.2	7.1	3.6	0.0	0.0	0.0	0.0
75°	6515.8	3240.1	49.7	14.2	10.7	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	2998.6	1254.1	35.5	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
80°	586.2	312.6	14.2	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	135.0	53.3	7.1	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.2	17.8	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	7.1	3.6	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)