

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: P400303

Luminaire Tested: **ARCH-L-PA3-260-750-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-260-750-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25084 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

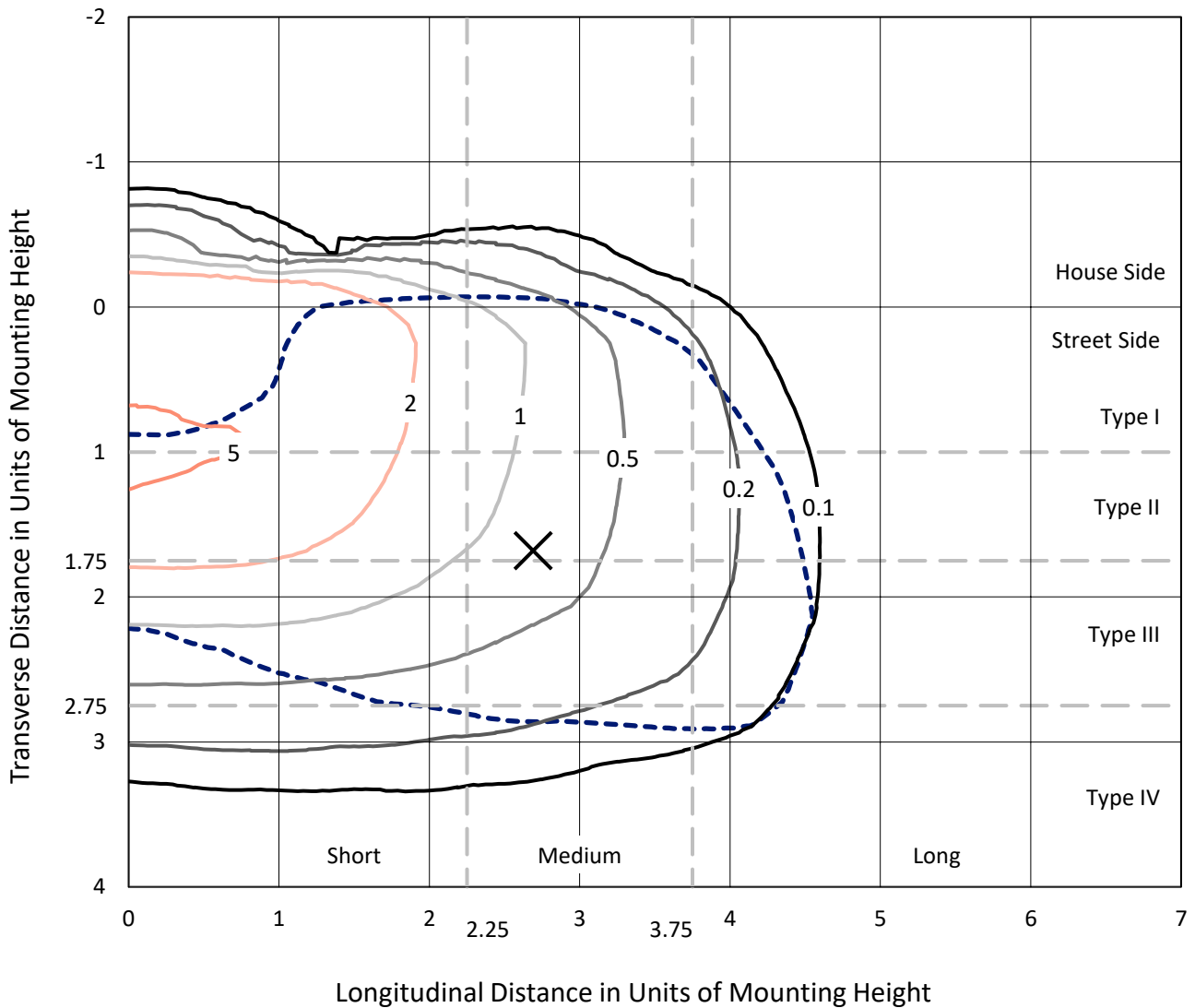
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P400303  
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### Iso-Footcandle Lines of Horizontal Illumination

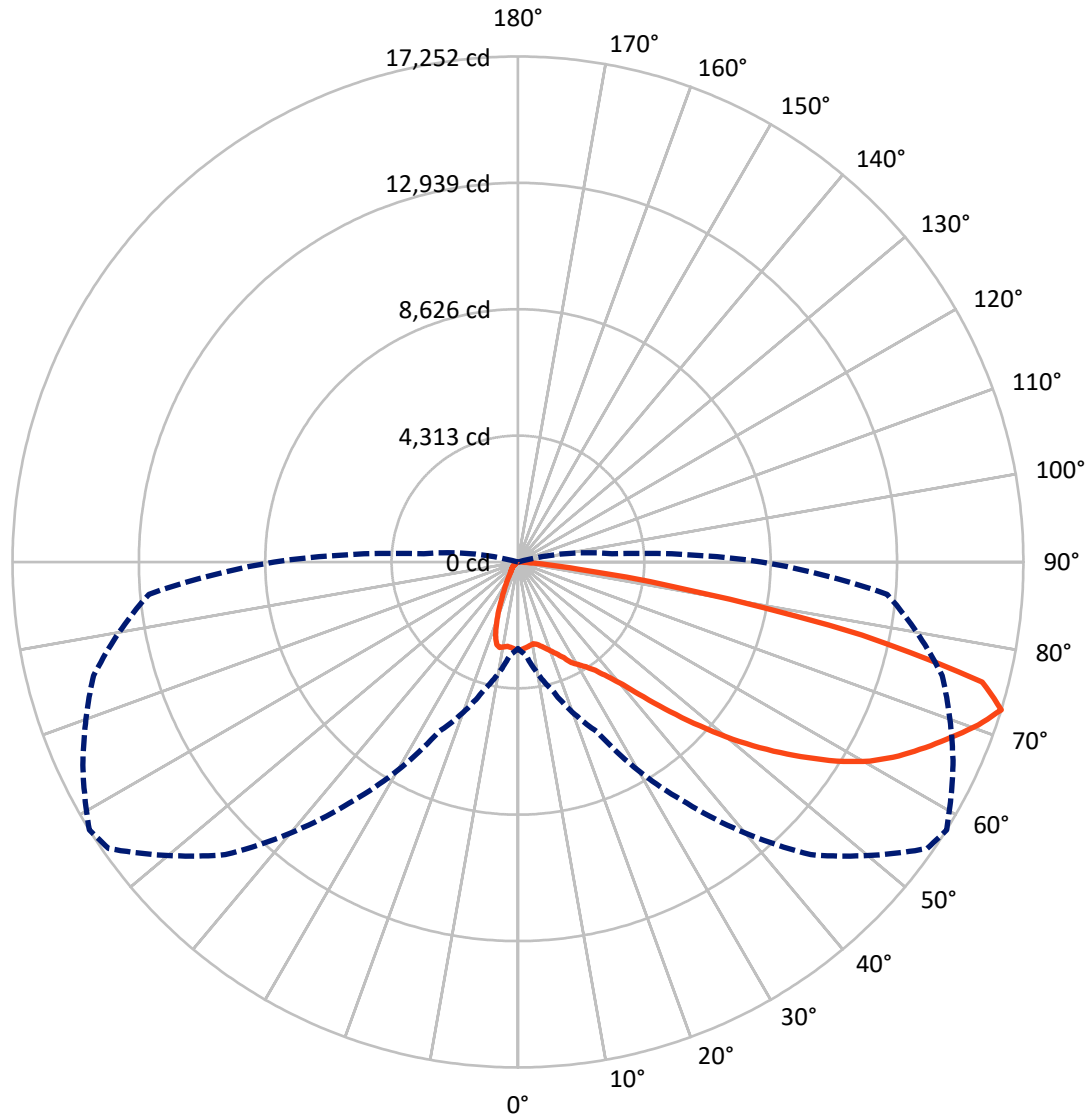
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: ARCH-L-PA3-260-750-U-T3-HSS

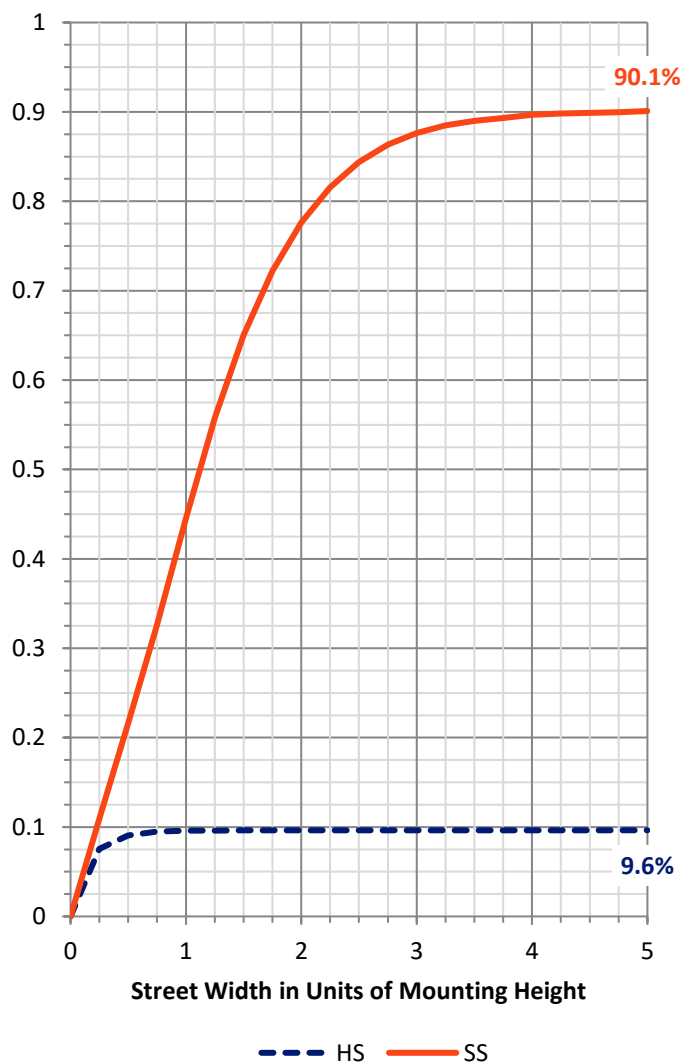
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2439.2	0.0	2439.2
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	22644.8	0.0	22644.8
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	25084.0	0.0	25084.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.2	1.1
10°-20°	719.5	2.9
20°-30°	1130.3	4.5
30°-40°	1949.2	7.8
40°-50°	3708.5	14.8
50°-60°	5873.1	23.4
60°-70°	6853.3	27.3
70°-80°	4292.2	17.1
80°-90°	281.7	1.1
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°	25084.0	100.0
0°-180°	25084.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P400303

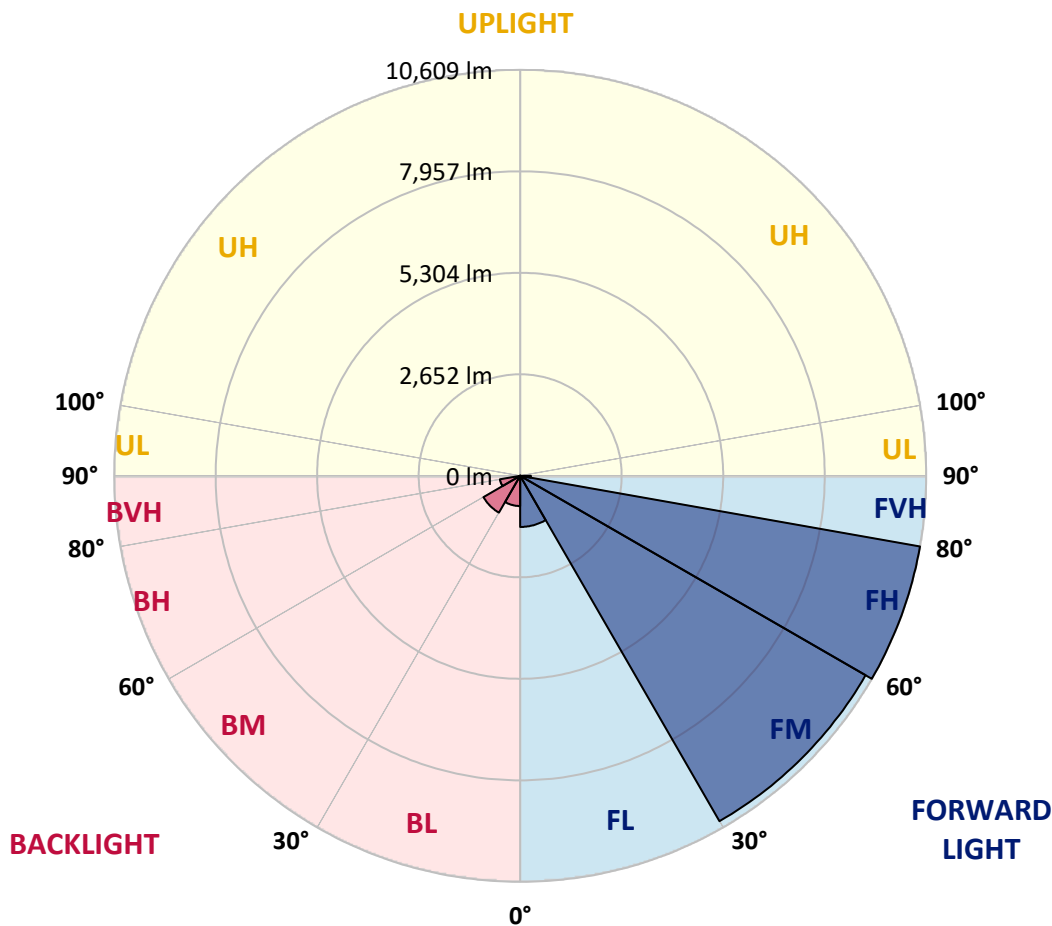
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.1	5.3			
FM (30°-60°)	10421.0	41.5			
FH (60°-80°)	10608.7	42.3			G4/12000
FVH (80°-90°)	279.0	1.1			G3/500
BL (0°-30°)	789.9	3.1	B2/1000		
BM (30°-60°)	1109.9	4.4	B2/2500		
BH (60°-80°)	536.7	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.7	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°	45°	55°	58°	65°	75°	85°
0°	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9
2.5°	2996.5	2983.0	2978.5	2974.0	2978.5	2983.0	2969.6	2983.0	2974.0	2978.5	2987.5
5°	2888.8	2875.4	2870.9	2875.4	2888.8	2911.2	2920.2	2933.7	2933.7	2947.1	2951.6
7.5°	2767.7	2758.7	2754.2	2763.2	2790.1	2839.5	2866.4	2884.3	2902.3	2929.2	2956.1
10°	2700.4	2695.9	2691.4	2704.9	2731.8	2776.7	2812.6	2839.5	2906.8	2983.0	3032.4
12.5°	2655.6	2655.6	2664.5	2691.4	2727.3	2763.2	2848.4	2884.3	2987.5	3104.1	3171.4
15°	2619.7	2619.7	2633.1	2682.5	2731.8	2817.0	2942.6	2983.0	3104.1	3247.7	3337.4
17.5°	2592.8	2601.7	2610.7	2660.0	2754.2	2897.8	3045.8	3104.1	3252.2	3409.2	3507.8
20°	2597.2	2606.2	2610.7	2660.0	2794.6	2992.0	3180.4	3247.7	3418.1	3584.1	3682.8
22.5°	2624.2	2637.6	2642.1	2709.4	2866.4	3090.7	3332.9	3409.2	3593.1	3768.0	3844.3
25°	2736.3	2745.3	2718.4	2776.7	2969.6	3243.2	3530.3	3611.0	3794.9	3956.4	4019.2
27.5°	3117.6	3126.6	2978.5	2911.2	3050.3	3368.8	3772.5	3884.6	4113.4	4221.1	4230.0
30°	3943.0	3951.9	3660.4	3341.9	3243.2	3476.4	3907.1	4064.1	4360.1	4481.2	4427.4
32.5°	5006.1	4997.1	4597.9	4126.9	3700.7	3664.8	4100.0	4265.9	4588.9	4705.5	4665.2
35°	6073.7	6087.1	5746.2	5037.5	4427.4	4019.2	4346.7	4539.6	4929.8	5095.8	5024.0
37.5°	6804.9	6894.6	6746.5	5979.5	5320.1	4674.1	4745.9	4952.2	5441.2	5665.5	5513.0
40°	7836.6	7814.1	7455.3	6890.1	6306.9	5643.1	5391.9	5490.5	6051.3	6351.8	6114.1
42.5°	9222.7	9177.8	8567.8	8016.0	7365.6	6822.8	6311.4	6293.5	6751.0	7100.9	6755.5
45°	10478.7	10411.4	9994.2	9460.4	8747.2	8123.7	7432.9	7275.9	7594.3	7890.4	7486.7
47.5°	11479.0	11366.8	11070.8	10788.2	10613.2	9644.3	8608.1	8370.4	8531.9	8751.7	8182.0
50°	12663.2	12353.7	11923.1	11752.6	12116.0	11366.8	9738.5	9509.8	9500.8	9626.4	8899.7
52.5°	13201.5	12640.8	12398.6	12542.1	13183.6	12968.3	10958.6	10631.2	10501.1	10514.6	9568.1
55°	12551.1	12488.3	12618.4	13066.9	13905.8	13780.2	12129.4	11725.7	11532.8	11290.6	10209.5
57.5°	11810.9	12003.8	12519.7	13376.5	14820.9	14628.0	13282.3	12824.7	12470.3	11914.1	10922.8
60°	11129.1	11326.5	12178.8	13448.2	15323.3	15444.4	14242.2	13807.1	13282.3	12551.1	11707.8
62.5°	10092.9	10245.4	11443.1	13345.1	15103.5	15919.9	14910.6	14583.1	14094.2	13156.7	12609.4
65°	8926.6	9025.3	10209.5	12519.7	14672.8	15866.0	15462.3	15278.4	14802.9	13789.1	13502.1
67.5°	7648.2	7764.8	8751.7	11034.9	13829.5	15614.8	15982.7	15964.7	15422.0	14488.9	14148.0
70°	6176.9	6185.8	7002.2	9150.9	12358.2	15112.4	16628.6	16669.0	16014.1	15013.7	14174.9
72.5°	2956.1	3198.3	4539.6	6387.7	10043.6	14125.6	17050.3	17252.1	16386.4	14995.8	12645.3
75°	677.3	699.8	1323.3	3036.8	5889.8	10842.0	15996.1	16372.9	15480.3	12968.3	8908.7
77.5°	246.7	260.2	372.3	888.2	2265.3	5602.7	11447.6	11999.3	11443.1	8383.8	4212.1
80°	166.0	161.5	192.9	394.7	1040.7	1587.9	5853.9	6181.3	5643.1	2861.9	1009.3
82.5°	85.2	89.7	134.6	219.8	699.8	551.7	1955.8	2126.2	1749.4	574.2	188.4
85°	40.4	40.4	76.3	139.1	296.1	192.9	435.1	524.8	471.0	251.2	62.8
87.5°	40.4	40.4	71.8	89.7	152.5	80.7	107.7	134.6	125.6	134.6	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400303

CATALOG NUMBER: ARCH-L-PA3-260-750-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9
2.5°	2987.5	2983.0	2978.5	2987.5	2983.0	2992.0	2992.0	3001.0	3001.0	2992.0	2987.5
5°	2947.1	2938.2	2929.2	2929.2	2924.7	2933.7	2960.6	2983.0	2987.5	2974.0	2969.6
7.5°	2951.6	2951.6	2942.6	2924.7	2893.3	2893.3	2893.3	2920.2	2933.7	2924.7	2920.2
10°	3032.4	3036.8	3014.4	2974.0	2920.2	2870.9	2776.7	2637.6	2507.5	2471.6	2458.2
12.5°	3171.4	3175.9	3131.0	3059.3	2947.1	2655.6	2296.7	1964.8	1709.1	1637.3	1623.8
15°	3337.4	3341.9	3261.1	3144.5	2803.6	2126.2	1592.4	1215.6	991.3	937.5	933.0
17.5°	3507.8	3498.9	3377.8	3153.5	2377.4	1507.2	968.9	776.0	717.7	704.3	708.7
20°	3673.8	3646.9	3480.9	2987.5	1830.2	986.9	708.7	663.9	650.4	641.5	641.5
22.5°	3826.3	3772.5	3566.2	2660.0	1282.9	708.7	632.5	623.5	605.6	592.1	587.6
25°	3978.8	3902.6	3620.0	2233.9	861.3	619.0	596.6	578.7	556.2	538.3	533.8
27.5°	4162.8	4055.1	3593.1	1695.6	645.9	574.2	556.2	529.3	497.9	471.0	462.0
30°	4337.7	4216.6	3440.6	1170.8	551.7	529.3	502.4	462.0	421.7	390.3	381.3
32.5°	4557.5	4418.4	3166.9	767.1	480.0	462.0	435.1	385.8	331.9	296.1	287.1
35°	4871.5	4714.5	2817.0	538.3	421.7	390.3	354.4	300.5	242.2	215.3	210.8
37.5°	5311.1	5100.3	2377.4	435.1	372.3	327.5	273.6	219.8	179.4	157.0	152.5
40°	5849.4	5526.4	1888.5	385.8	331.9	273.6	206.3	157.0	130.1	112.1	112.1
42.5°	6432.5	5925.7	1390.6	354.4	291.6	224.3	152.5	112.1	94.2	85.2	80.7
45°	7033.6	6280.0	937.5	327.5	255.7	170.5	107.7	76.3	62.8	62.8	58.3
47.5°	7657.1	6517.8	605.6	296.1	215.3	125.6	71.8	53.8	44.9	44.9	44.9
50°	8276.2	6643.4	430.6	269.1	174.9	85.2	53.8	40.4	35.9	35.9	35.9
52.5°	8724.8	6562.6	345.4	233.3	134.6	62.8	40.4	31.4	26.9	26.9	26.9
55°	9115.0	6423.6	300.5	201.9	98.7	44.9	31.4	26.9	22.4	22.4	22.4
57.5°	9514.2	6244.1	269.1	170.5	71.8	31.4	22.4	17.9	17.9	17.9	17.9
60°	9877.6	5939.1	233.3	134.6	49.3	22.4	17.9	13.5	13.5	13.5	13.5
62.5°	10232.0	5678.9	201.9	103.2	35.9	17.9	9.0	9.0	4.5	4.5	4.5
65°	10433.8	5329.1	161.5	67.3	22.4	13.5	4.5	4.5	0.0	0.0	0.0
67.5°	10371.0	4911.9	112.1	40.4	13.5	9.0	4.5	0.0	0.0	0.0	0.0
70°	9935.9	4351.2	67.3	22.4	13.5	9.0	4.5	0.0	0.0	0.0	0.0
72.5°	8321.0	3220.8	40.4	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0
75°	5557.8	1480.3	22.4	13.5	4.5	4.5	0.0	0.0	0.0	0.0	0.0
77.5°	2543.4	444.1	13.5	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	511.4	116.6	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	107.7	22.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	4.5	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)