

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: P400386

Luminaire Tested: **ARCH-L-PA3-270-760-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-270-760-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25443 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G5

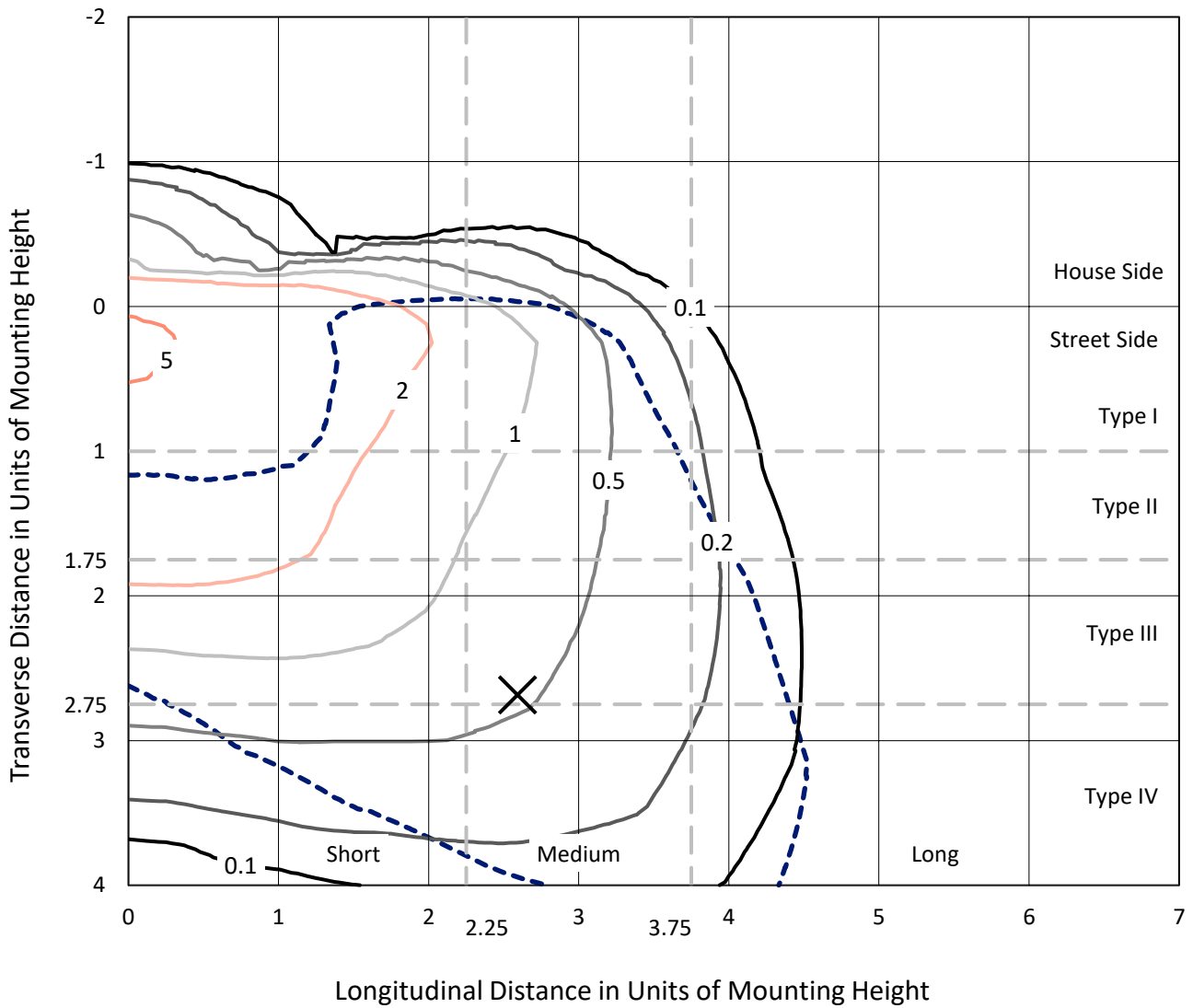
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

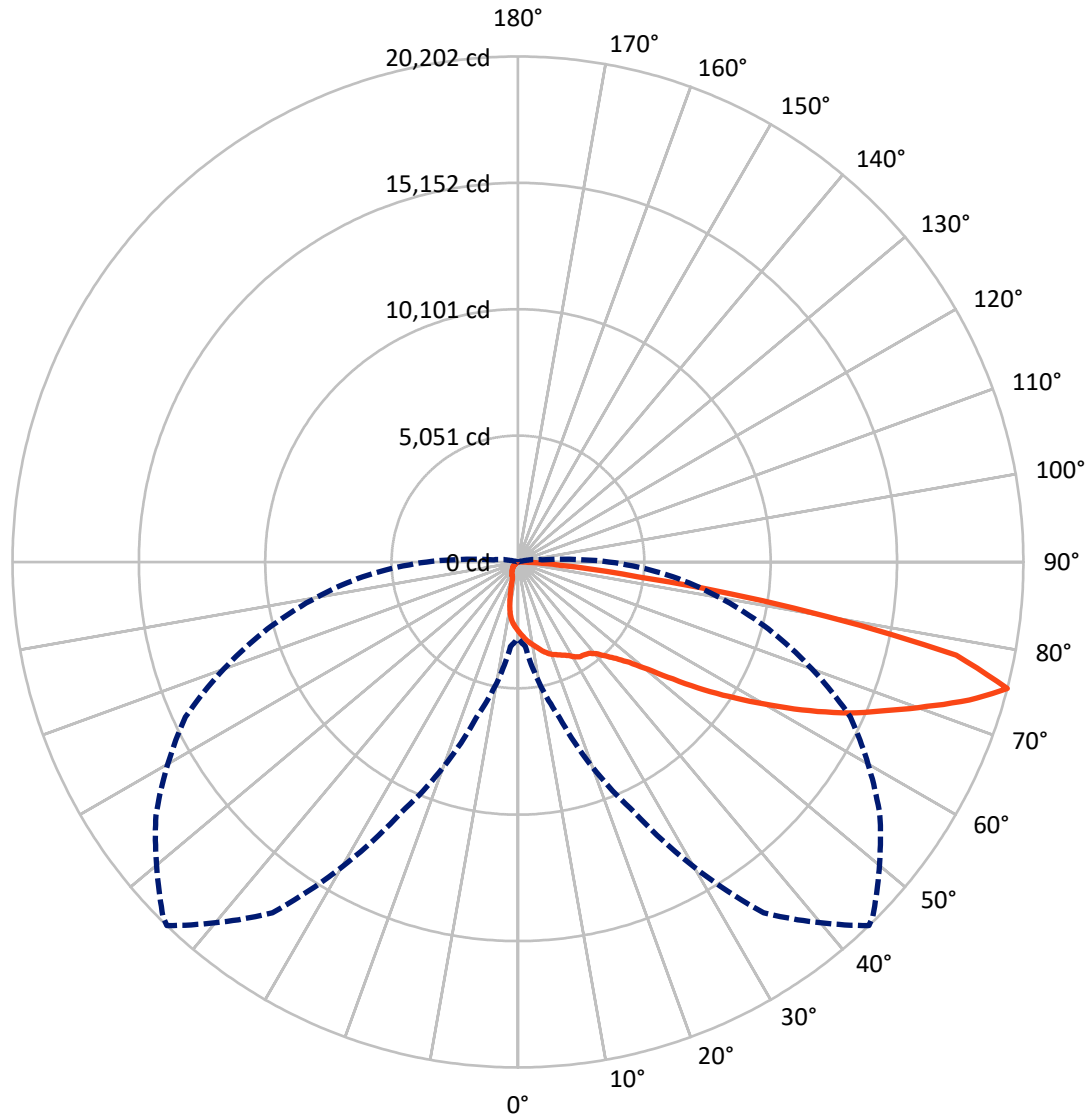
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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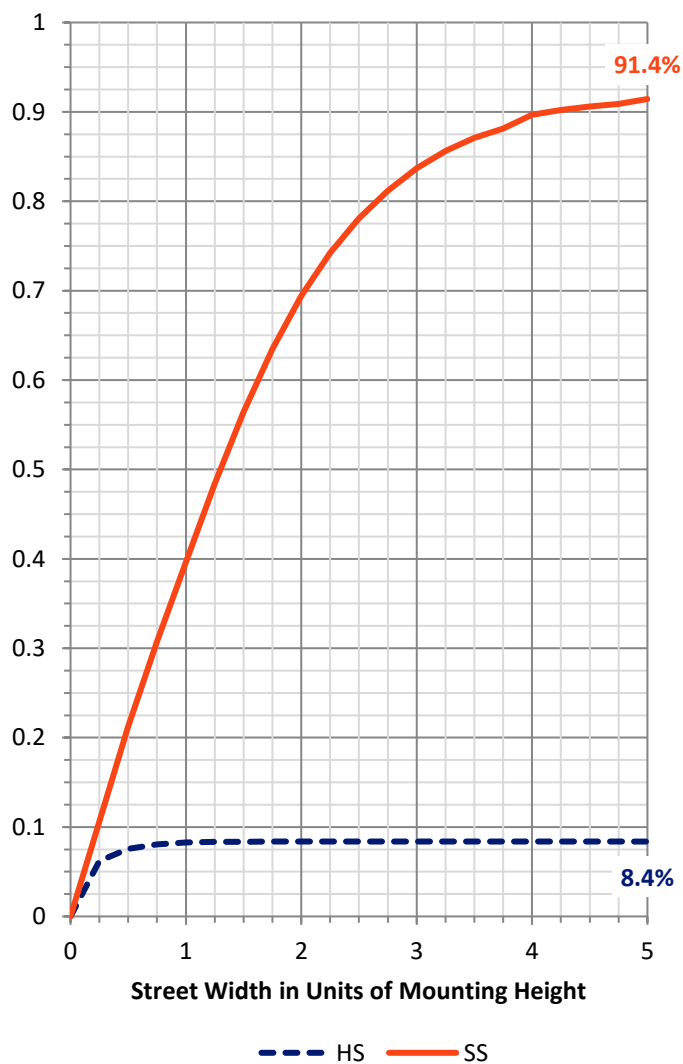
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2145.7	0.0	2145.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23297.3	0.0	23297.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25443.0	0.0	25443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.2	1.0
10°-20°	731.8	2.9
20°-30°	1207.7	4.7
30°-40°	1752.9	6.9
40°-50°	2849.5	11.2
50°-60°	5023.3	19.7
60°-70°	7219.5	28.4
70°-80°	5781.2	22.7
80°-90°	615.9	2.4
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°	25443.0	100.0
0°-180°	25443.0	100.0

**Coefficient of Utilization**

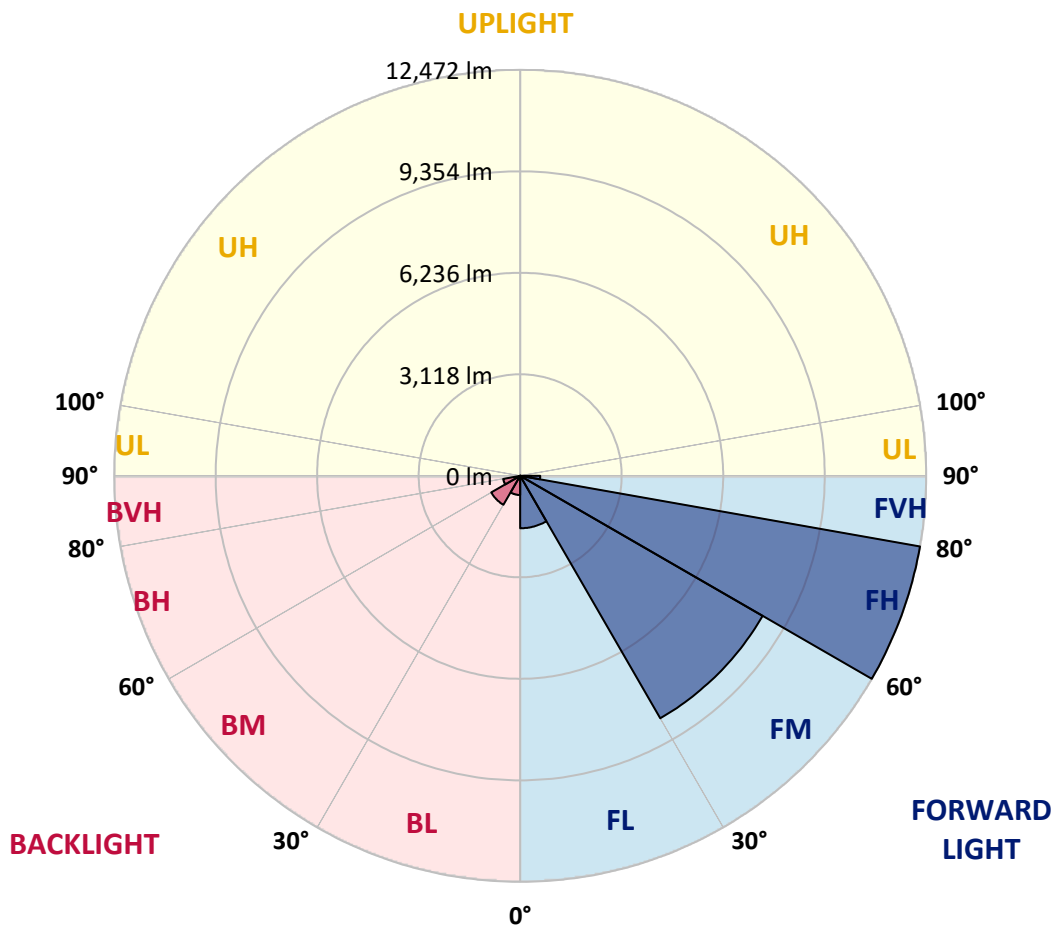


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.3	6.3			
FM (30°-60°)	8600.0	33.8			
FH (60°-80°)	12471.7	49.0			G5
FVH (80°-90°)	614.4	2.4			G4/750
BL (0°-30°)	589.5	2.3	B2/1000		
BM (30°-60°)	1025.7	4.0	B2/2500		
BH (60°-80°)	529.0	2.1	B2/1000		G2/1000
BVH (80°-90°)	1.6	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4
2.5°	3018.1	3013.5	2999.4	2975.9	2952.4	2929.0	2924.3	2886.7	2844.5	2811.6	2783.5
5°	3285.7	3281.0	3257.5	3205.9	3154.3	3093.3	3088.6	2999.4	2919.6	2830.4	2755.3
7.5°	3562.6	3553.2	3511.0	3431.2	3342.0	3248.1	3238.8	3107.3	2990.0	2872.6	2764.7
10°	3778.6	3769.2	3708.1	3614.3	3492.2	3374.9	3360.8	3224.7	3107.3	2957.1	2811.6
12.5°	3989.8	3971.0	3891.2	3787.9	3637.7	3525.1	3511.0	3370.2	3229.4	3074.5	2896.1
15°	4186.9	4163.4	4088.3	3956.9	3797.3	3689.4	3680.0	3529.8	3384.3	3205.9	3008.8
17.5°	4323.0	4313.7	4224.5	4079.0	3924.1	3834.9	3825.5	3670.6	3525.1	3337.3	3126.1
20°	4393.4	4393.4	4309.0	4149.4	4008.6	3947.5	3933.4	3787.9	3647.1	3468.8	3248.1
22.5°	4407.5	4421.6	4355.9	4182.2	4079.0	4027.3	4017.9	3891.2	3755.1	3590.8	3384.3
25°	4435.7	4435.7	4402.8	4215.1	4140.0	4125.9	4121.2	4008.6	3886.5	3722.2	3520.4
27.5°	4468.5	4468.5	4445.1	4262.0	4233.9	4229.2	4224.5	4172.8	4074.3	3881.8	3680.0
30°	4553.0	4557.7	4539.0	4355.9	4337.1	4388.8	4398.1	4370.0	4247.9	4008.6	3844.3
32.5°	4764.3	4722.0	4670.4	4421.6	4454.5	4520.2	4524.9	4468.5	4337.1	4144.7	4041.4
35°	5294.7	5045.9	4811.2	4477.9	4492.0	4557.7	4567.1	4562.4	4482.6	4318.3	4266.7
37.5°	5787.5	5435.5	5102.2	4609.4	4562.4	4632.8	4651.6	4731.4	4670.4	4557.7	4571.8
40°	6073.8	5937.7	5703.0	4970.8	4703.2	4811.2	4830.0	4952.0	4928.5	4881.6	4970.8
42.5°	6956.3	6965.7	6712.2	5510.6	4961.4	5135.1	5158.5	5257.1	5290.0	5313.4	5529.4
45°	7979.6	8012.4	7951.4	6482.2	5449.6	5505.9	5538.7	5670.2	5792.2	5942.4	6336.7
47.5°	9209.3	9181.2	8955.9	7669.8	6299.2	5984.7	6008.1	6261.6	6472.8	6801.4	7364.7
50°	10298.3	10368.7	9941.6	8777.5	7496.1	6740.4	6716.9	6965.7	7345.9	7805.9	8514.7
52.5°	11396.7	11293.4	10716.1	9875.9	8913.6	7768.3	7697.9	7834.0	8369.1	8913.6	9641.2
55°	11687.7	11697.1	11499.9	11077.5	10096.5	9016.9	8899.5	8890.2	9556.7	9927.5	10824.0
57.5°	12260.3	12283.8	12330.8	12415.2	11950.6	10265.5	10143.4	10012.0	10659.7	10875.7	12011.6
60°	12842.4	12870.5	13156.9	13612.2	13302.4	11612.6	11481.2	11171.4	11532.8	11823.8	13260.1
62.5°	12767.3	12964.4	13795.2	14701.2	14663.6	13091.2	12926.9	12180.6	12410.6	12664.0	14405.4
65°	11528.1	11739.3	13607.5	15001.6	16029.5	14550.9	14283.4	13222.6	13236.7	13541.8	15508.5
67.5°	10420.4	10650.4	12434.0	14874.8	16930.7	15860.5	15583.6	14269.3	14048.7	14555.6	16099.9
70°	9782.0	10012.0	11499.9	14480.5	17184.2	17310.9	17071.5	15466.3	15015.6	15480.3	15438.1
72.5°	7655.7	8017.1	10307.7	13729.5	17456.4	18864.6	18676.8	16982.4	15837.1	14513.4	11753.4
75°	3051.0	3384.3	6435.3	11049.3	17113.8	20202.3	20056.8	17663.0	14658.9	10364.0	6017.5
77.5°	920.0	985.7	1788.4	5463.6	12546.7	17911.7	17864.8	14851.4	10373.4	4811.2	1642.8
80°	305.1	338.0	549.2	1506.7	5726.5	11190.1	11401.4	9462.8	4712.6	1103.1	333.3
82.5°	126.7	140.8	276.9	605.5	2027.7	4820.6	4750.2	4238.6	1642.8	685.3	122.0
85°	32.9	42.2	126.7	347.3	741.6	1661.6	1746.1	1422.2	929.4	568.0	37.6
87.5°	0.0	0.0	61.0	140.8	333.3	502.2	525.7	431.8	525.7	427.1	18.8
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°	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4
2.5°	2760.0	2736.5	2694.3	2666.1	2628.6	2619.2	2600.4	2576.9	2572.2	2548.8	2553.5
5°	2713.0	2675.5	2600.4	2548.8	2487.7	2469.0	2436.1	2412.6	2393.9	2361.0	2365.7
7.5°	2703.7	2647.3	2544.1	2445.5	2346.9	2276.5	2177.9	2098.2	2032.4	1962.0	1976.1
10°	2736.5	2666.1	2520.6	2384.5	2206.1	1980.8	1722.6	1553.7	1469.2	1384.7	1394.1
12.5°	2802.2	2717.7	2530.0	2323.5	1962.0	1577.1	1220.4	990.4	929.4	891.8	896.5
15°	2900.8	2797.5	2558.2	2206.1	1633.5	1140.6	812.0	713.5	736.9	751.0	751.0
17.5°	3004.1	2886.7	2581.6	1994.9	1262.6	798.0	661.8	652.4	685.3	718.2	718.2
20°	3130.8	2980.6	2586.3	1727.3	910.6	647.8	624.3	624.3	647.8	685.3	685.3
22.5°	3252.8	3083.9	2544.1	1422.2	694.7	600.8	600.8	600.8	614.9	652.4	657.1
25°	3398.4	3210.6	2454.9	1098.4	596.1	572.7	572.7	577.3	586.7	619.6	624.3
27.5°	3553.2	3342.0	2304.7	802.6	544.5	539.8	544.5	549.2	553.9	586.7	596.1
30°	3731.6	3487.5	2112.2	600.8	497.5	497.5	511.6	521.0	521.0	549.2	558.6
32.5°	3938.1	3680.0	1882.2	497.5	450.6	445.9	469.4	483.5	483.5	506.9	516.3
35°	4196.3	3877.1	1605.3	441.2	413.1	403.7	413.1	436.5	445.9	464.7	469.4
37.5°	4539.0	4111.8	1309.6	408.4	384.9	366.1	366.1	370.8	389.6	408.4	413.1
40°	4975.5	4370.0	1018.6	384.9	356.7	338.0	323.9	319.2	314.5	328.6	338.0
42.5°	5524.7	4661.0	760.4	361.4	333.3	305.1	286.3	267.5	244.1	239.4	244.1
45°	6228.7	5017.7	563.3	342.7	319.2	276.9	244.1	211.2	169.0	154.9	159.6
47.5°	7059.6	5388.5	441.2	323.9	309.8	244.1	201.8	145.5	103.3	93.9	98.6
50°	7942.0	5745.3	375.5	300.4	291.0	211.2	145.5	89.2	61.0	61.0	65.7
52.5°	8693.0	5947.1	342.7	281.6	262.9	173.7	93.9	51.6	37.6	37.6	42.2
55°	9420.6	6055.1	319.2	262.9	225.3	122.0	51.6	32.9	23.5	23.5	23.5
57.5°	10171.6	6102.0	291.0	239.4	178.4	75.1	28.2	18.8	14.1	14.1	14.1
60°	10838.1	6012.8	248.8	197.1	117.3	37.6	14.1	14.1	9.4	4.7	4.7
62.5°	11396.7	5843.8	173.7	140.8	70.4	18.8	9.4	4.7	0.0	0.0	0.0
65°	11739.3	5571.6	112.7	93.9	42.2	14.1	4.7	0.0	0.0	0.0	0.0
67.5°	11640.8	5060.0	70.4	61.0	18.8	9.4	4.7	0.0	0.0	0.0	0.0
70°	10504.8	4149.4	51.6	37.6	14.1	4.7	0.0	0.0	0.0	0.0	0.0
72.5°	7571.2	2806.9	37.6	23.5	9.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	3642.4	999.8	23.5	18.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	891.8	220.6	14.1	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	197.1	42.2	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.7	18.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.5	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	4.7	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)