

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: P400274

Luminaire Tested: **ARCH-L-PA3-260-727-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400274  
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-PA3-260-727-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1110mA 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: 19849 lumens  
Efficiency: N/A  
Efficacy: 76.0 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

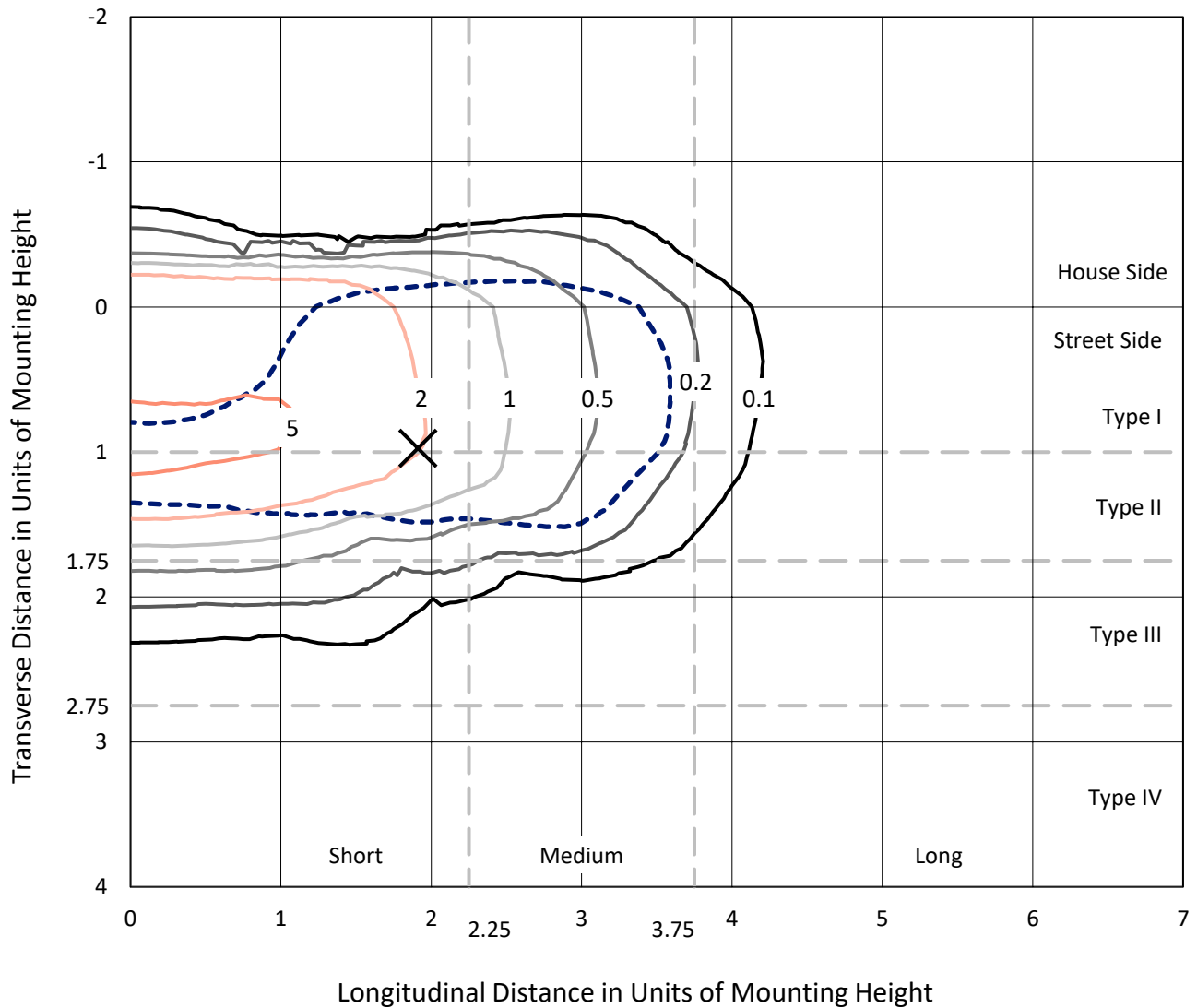
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

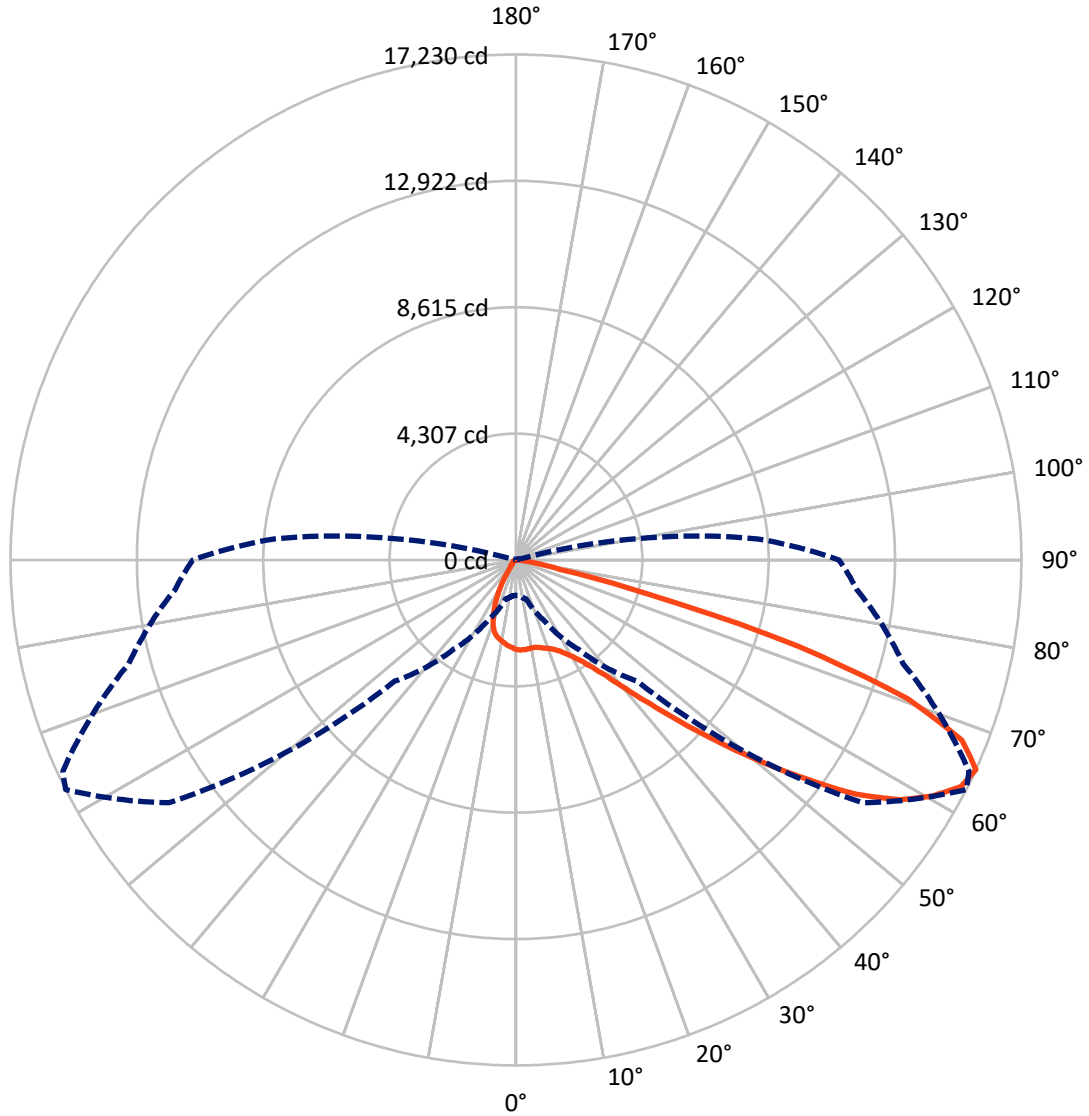
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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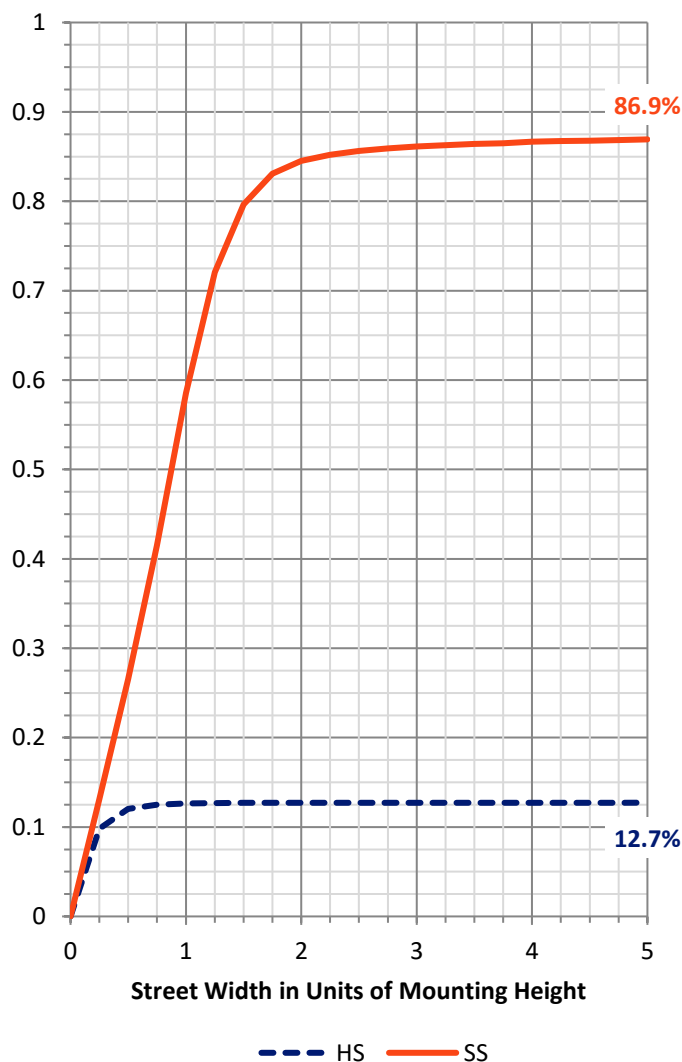
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2554.5	0.0	2554.5
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	17294.5	0.0	17294.5
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	19849.0	0.0	19849.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	1.4
10°-20°	688.3	3.5
20°-30°	1020.2	5.1
30°-40°	1894.2	9.5
40°-50°	4012.8	20.2
50°-60°	5548.6	28.0
60°-70°	4441.9	22.4
70°-80°	1845.5	9.3
80°-90°	118.5	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°	19849.0	100.0
0°-180°	19849.0	100.0

**Coefficient of Utilization**



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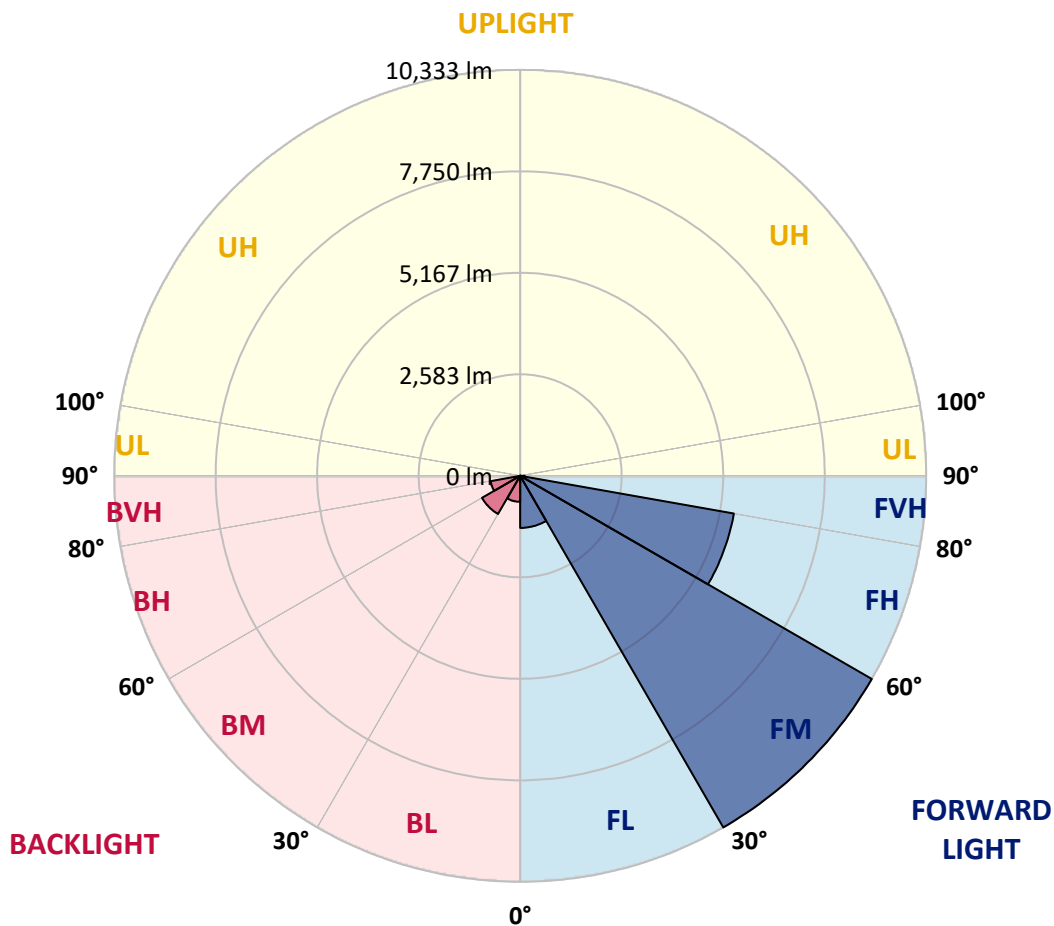
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.4	6.7			
FM (30°-60°)	10333.5	52.1			
FH (60°-80°)	5522.4	27.8			G3/7500
FVH (80°-90°)	113.1	0.6			G2/225
BL (0°-30°)	662.0	3.3	B2/1000		
BM (30°-60°)	1122.2	5.7	B2/2500		
BH (60°-80°)	764.9	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°	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7
2.5°	3110.2	3102.7	3095.2	3091.5	3091.5	3087.7	3072.7	3069.0	3061.5	3054.0	3046.5
5°	3080.2	3069.0	3065.2	3069.0	3072.7	3080.2	3072.7	3072.7	3065.2	3057.7	3042.8
7.5°	3005.3	2997.8	3001.5	3012.8	3016.5	3042.8	3046.5	3057.7	3057.7	3050.3	3039.0
10°	2915.4	2911.6	2911.6	2930.3	2949.1	2986.6	3012.8	3042.8	3046.5	3046.5	3027.8
12.5°	2847.9	2844.2	2855.4	2877.9	2915.4	2964.1	3009.0	3054.0	3061.5	3065.2	3035.3
15°	2806.7	2806.7	2821.7	2866.6	2919.1	2986.6	3039.0	3099.0	3106.5	3102.7	3061.5
17.5°	2769.2	2773.0	2802.9	2877.9	2937.8	3027.8	3091.5	3158.9	3162.7	3158.9	3091.5
20°	2754.2	2761.7	2806.7	2904.1	2971.6	3072.7	3155.2	3222.6	3226.4	3211.4	3121.5
22.5°	2795.4	2799.2	2855.4	2960.3	3024.0	3136.4	3241.4	3305.1	3308.8	3286.3	3166.4
25°	2937.8	2937.8	2986.6	3076.5	3132.7	3245.1	3357.5	3432.5	3432.5	3406.2	3267.6
27.5°	3271.3	3241.4	3230.1	3256.4	3275.1	3395.0	3514.9	3608.6	3604.8	3567.4	3398.7
30°	3915.9	3840.9	3721.0	3586.1	3518.7	3601.1	3713.5	3833.4	3829.7	3769.7	3559.9
32.5°	4998.8	4890.2	4605.4	4249.4	3960.8	3867.2	3972.1	4103.2	4107.0	4035.8	3818.4
35°	6516.5	6344.1	5834.5	5339.8	4680.3	4324.3	4354.3	4496.7	4541.7	4504.2	4253.1
37.5°	7977.9	7820.5	7333.4	6647.6	5752.0	5025.1	4897.6	5021.3	5073.8	5073.8	4807.7
40°	9450.5	9266.9	8836.0	8146.5	7202.2	6119.2	5662.1	5763.3	5819.5	5830.7	5482.2
42.5°	10630.9	10511.0	10181.3	9645.4	8761.1	8037.8	6763.8	6707.6	6760.0	6718.8	6265.4
45°	11447.8	11354.1	11125.6	10923.2	10492.3	10128.8	8236.4	7858.0	7891.7	7749.3	7146.0
47.5°	11616.4	11511.5	11462.8	11743.9	12051.1	12141.1	10046.4	9225.7	9192.0	8877.2	8060.3
50°	10882.0	10893.2	11073.1	11875.0	13156.6	13966.0	12144.8	10769.6	10645.9	9945.2	8910.9
52.5°	9296.9	9476.8	9930.2	11230.5	13493.8	15292.5	14243.3	12407.1	12216.0	10983.2	9548.0
55°	7273.4	7505.7	8251.4	9746.6	12789.3	15884.6	16012.0	14108.4	13673.7	11762.6	10042.6
57.5°	5407.3	5478.5	6347.8	7711.8	11121.8	15303.7	16918.8	15419.9	14861.6	12384.6	10533.5
60°	3368.8	3413.7	4331.8	5871.9	8423.8	13156.6	16918.8	16323.0	15790.9	12943.0	10983.2
62.5°	2094.7	2109.7	2454.4	4024.5	5725.8	9757.8	16218.1	17023.7	16596.5	13343.9	11369.1
65°	1206.6	1221.6	1382.7	2274.6	3724.8	5841.9	14426.9	17229.8	17038.7	13662.4	11668.9
67.5°	880.6	888.1	951.8	1277.8	2435.7	3001.5	10837.0	16401.7	16641.5	13819.8	11661.4
70°	764.4	775.7	858.1	996.8	1757.5	1843.6	5515.9	14164.6	14835.3	13595.0	11312.9
72.5°	588.3	603.3	727.0	936.8	1289.1	1326.5	1997.3	10080.1	11095.6	12189.8	10357.4
75°	404.7	419.7	543.4	771.9	1064.2	993.0	1097.9	4639.1	5853.2	8176.5	7884.2
77.5°	258.6	262.3	341.0	562.1	918.1	704.5	753.2	1513.9	2124.7	3698.5	3721.0
80°	172.4	176.1	209.8	363.5	629.5	652.0	464.7	700.7	768.2	1079.2	749.4
82.5°	104.9	104.9	142.4	228.6	382.2	539.6	303.5	367.2	393.5	415.9	194.9
85°	41.2	41.2	86.2	149.9	239.8	251.1	191.1	213.6	224.8	243.6	89.9
87.5°	11.2	11.2	48.7	82.4	104.9	116.2	116.2	104.9	112.4	138.6	45.0
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°	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7	3057.7
2.5°	3042.8	3031.5	3016.5	3001.5	2986.6	2975.3	2964.1	2964.1	2956.6	2945.3	2937.8
5°	3035.3	3016.5	2982.8	2956.6	2915.4	2885.4	2862.9	2844.2	2832.9	2806.7	2802.9
7.5°	3024.0	3001.5	2952.8	2900.4	2832.9	2780.5	2728.0	2690.5	2653.0	2623.1	2615.6
10°	3005.3	2979.1	2907.9	2832.9	2739.2	2641.8	2518.1	2375.8	2244.6	2169.7	2147.2
12.5°	3005.3	2971.6	2877.9	2776.7	2641.8	2402.0	2087.2	1772.4	1528.9	1420.2	1390.2
15°	3024.0	2979.1	2855.4	2716.8	2465.7	1978.5	1468.9	1053.0	786.9	704.5	685.7
17.5°	3042.8	2979.1	2821.7	2634.3	2143.4	1435.2	835.6	554.6	468.4	449.7	449.7
20°	3050.3	2971.6	2776.7	2480.7	1712.5	891.8	498.4	415.9	382.2	371.0	371.0
22.5°	3080.2	2975.3	2743.0	2259.6	1244.1	524.6	393.5	348.5	314.8	303.5	303.5
25°	3155.2	3020.3	2750.5	1978.5	798.2	397.2	333.5	288.5	254.8	239.8	239.8
27.5°	3275.1	3121.5	2791.7	1652.5	502.1	341.0	281.0	232.3	206.1	191.1	191.1
30°	3410.0	3233.9	2810.4	1277.8	374.7	288.5	228.6	183.6	164.9	153.6	149.9
32.5°	3646.1	3428.7	2795.4	876.9	307.3	243.6	183.6	146.1	131.2	127.4	127.4
35°	4024.5	3769.7	2765.5	550.8	254.8	194.9	146.1	119.9	108.7	104.9	101.2
37.5°	4537.9	4268.1	2675.5	363.5	209.8	153.6	119.9	101.2	89.9	86.2	86.2
40°	5163.7	4837.7	2503.2	277.3	179.9	123.7	101.2	86.2	78.7	74.9	74.9
42.5°	5879.4	5471.0	2229.6	239.8	149.9	104.9	86.2	71.2	67.5	63.7	63.7
45°	6662.6	6134.2	1851.1	213.6	127.4	86.2	71.2	63.7	56.2	56.2	52.5
47.5°	7494.5	6801.2	1424.0	187.4	108.7	74.9	63.7	52.5	48.7	45.0	45.0
50°	8296.4	7397.1	1000.5	161.1	89.9	63.7	52.5	45.0	41.2	37.5	37.5
52.5°	8862.2	7756.8	708.2	138.6	74.9	56.2	41.2	33.7	30.0	30.0	30.0
55°	9315.6	7981.6	494.6	116.2	63.7	48.7	33.7	26.2	26.2	22.5	22.5
57.5°	9742.8	8127.8	363.5	97.4	52.5	37.5	26.2	18.7	18.7	15.0	15.0
60°	10185.0	8206.5	277.3	78.7	45.0	30.0	18.7	15.0	11.2	11.2	11.2
62.5°	10630.9	8255.2	213.6	63.7	37.5	22.5	15.0	11.2	7.5	3.7	3.7
65°	11020.6	8270.2	164.9	48.7	30.0	15.0	11.2	3.7	0.0	0.0	0.0
67.5°	11136.8	8097.8	127.4	37.5	22.5	11.2	7.5	0.0	0.0	0.0	0.0
70°	10822.0	7640.6	97.4	30.0	18.7	7.5	3.7	0.0	0.0	0.0	0.0
72.5°	9604.2	6407.8	74.9	18.7	15.0	7.5	3.7	0.0	0.0	0.0	0.0
75°	6872.4	3417.5	52.5	15.0	11.2	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	3162.7	1322.8	37.5	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0
80°	618.3	329.8	15.0	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	142.4	56.2	7.5	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.7	18.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	7.5	3.7	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)