

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: P400463

Luminaire Tested: **ARCH-L-PA3-280-827-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400463
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-PA3-280-827-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1180mA 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: 18193 lumens
Efficiency: N/A
Efficacy: 65.2 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

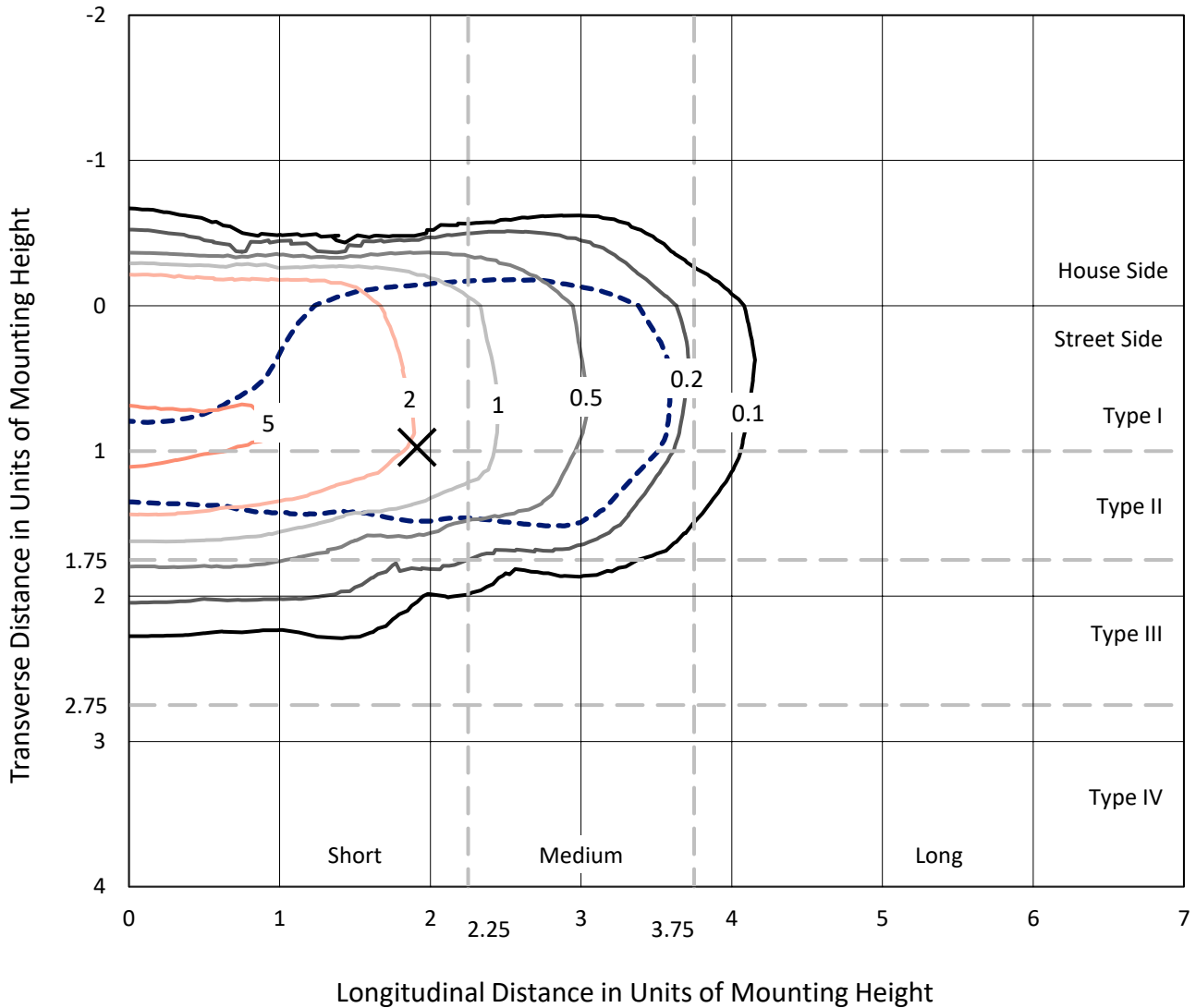
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

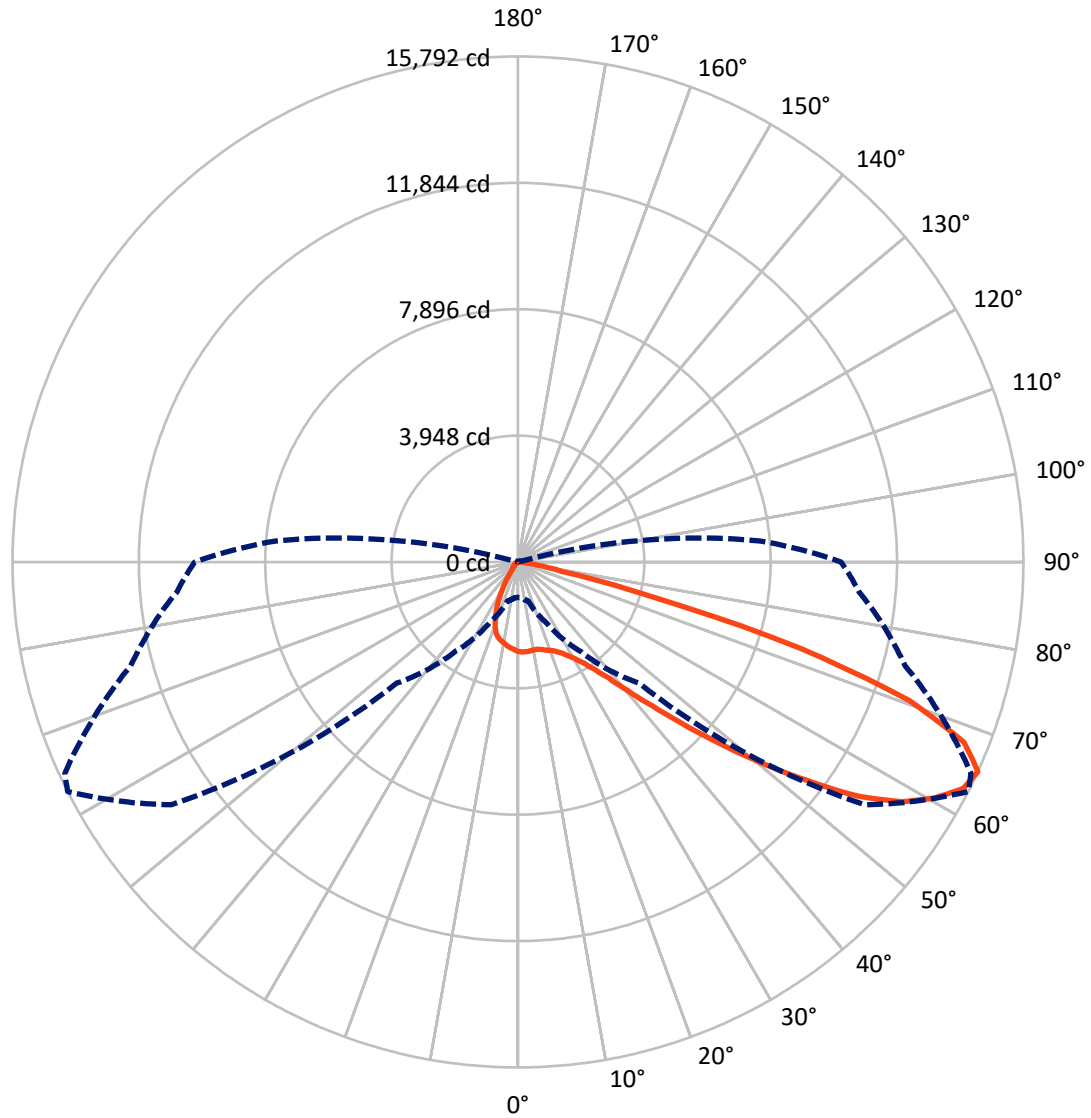
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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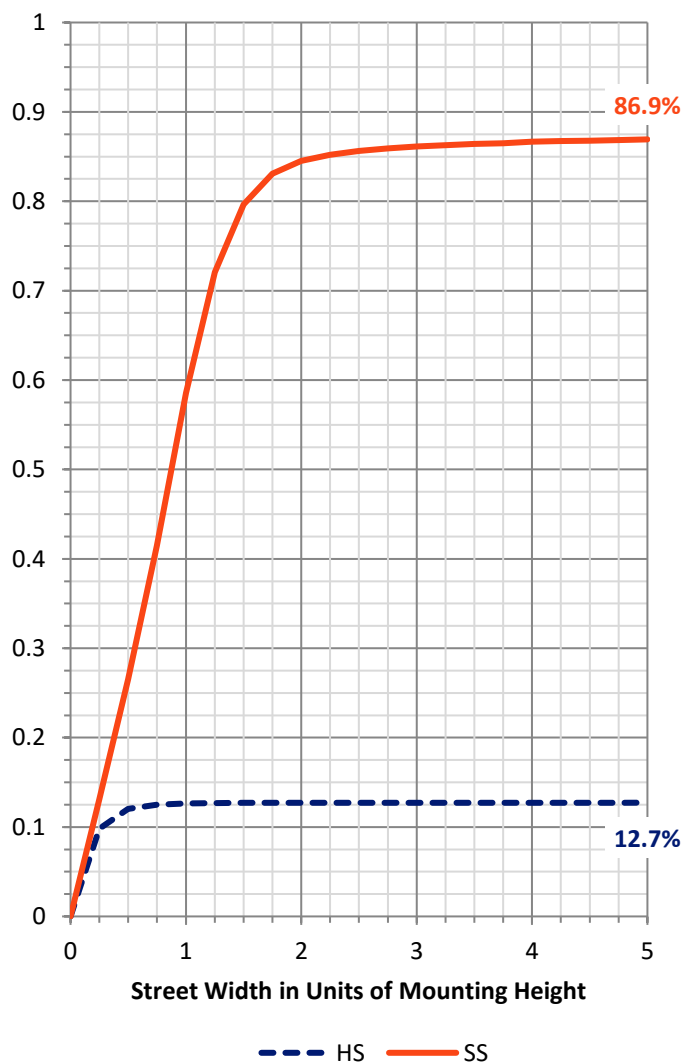
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2341.4	0.0	2341.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	15851.6	0.0	15851.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	18193.0	0.0	18193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	1.4
10°-20°	630.9	3.5
20°-30°	935.1	5.1
30°-40°	1736.2	9.5
40°-50°	3678.0	20.2
50°-60°	5085.7	28.0
60°-70°	4071.3	22.4
70°-80°	1691.5	9.3
80°-90°	108.6	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°	18193.0	100.0
0°-180°	18193.0	100.0

Coefficient of Utilization



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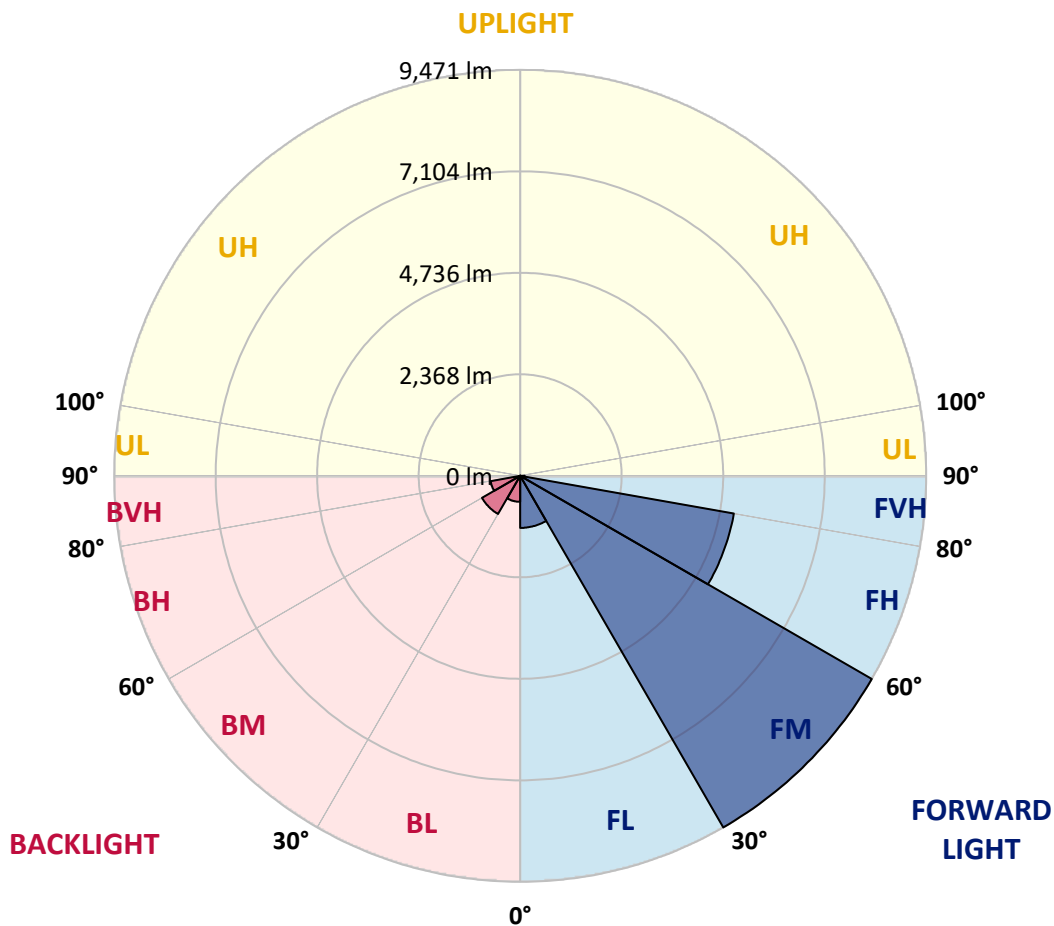
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1214.9	6.7			
FM (30°-60°)	9471.4	52.1			
FH (60°-80°)	5061.7	27.8			G3/7500
FVH (80°-90°)	103.7	0.6			G2/225
BL (0°-30°)	606.8	3.3	B2/1000		
BM (30°-60°)	1028.5	5.7	B2/2500		
BH (60°-80°)	701.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6
2.5°	2850.7	2843.9	2837.0	2833.6	2833.6	2830.1	2816.4	2812.9	2806.1	2799.2	2792.3
5°	2823.2	2812.9	2809.5	2812.9	2816.4	2823.2	2816.4	2816.4	2809.5	2802.6	2788.9
7.5°	2754.6	2747.7	2751.1	2761.4	2764.9	2788.9	2792.3	2802.6	2802.6	2795.8	2785.5
10°	2672.1	2668.7	2668.7	2685.9	2703.0	2737.4	2761.4	2788.9	2792.3	2792.3	2775.2
12.5°	2610.3	2606.9	2617.2	2637.8	2672.1	2716.8	2758.0	2799.2	2806.1	2809.5	2782.0
15°	2572.5	2572.5	2586.3	2627.5	2675.6	2737.4	2785.5	2840.4	2847.3	2843.9	2806.1
17.5°	2538.2	2541.6	2569.1	2637.8	2692.7	2775.2	2833.6	2895.4	2898.8	2895.4	2833.6
20°	2524.4	2531.3	2572.5	2661.8	2723.6	2816.4	2891.9	2953.8	2957.2	2943.5	2861.0
22.5°	2562.2	2565.7	2617.2	2713.3	2771.7	2874.8	2970.9	3029.3	3032.8	3012.2	2902.2
25°	2692.7	2692.7	2737.4	2819.8	2871.3	2974.4	3077.4	3146.1	3146.1	3122.1	2995.0
27.5°	2998.4	2970.9	2960.6	2984.7	3001.8	3111.8	3221.7	3307.5	3304.1	3269.7	3115.2
30°	3589.2	3520.5	3410.6	3286.9	3225.1	3300.7	3403.7	3513.6	3510.2	3455.2	3262.9
32.5°	4581.8	4482.2	4221.1	3894.8	3630.4	3544.5	3640.7	3760.9	3764.3	3699.1	3499.9
35°	5972.8	5814.8	5347.7	4894.3	4289.8	3963.5	3991.0	4121.5	4162.7	4128.4	3898.3
37.5°	7312.3	7168.0	6721.5	6093.0	5272.1	4605.8	4489.0	4602.4	4650.5	4650.5	4406.6
40°	8662.1	8493.8	8098.8	7466.8	6601.3	5608.7	5189.7	5282.4	5333.9	5344.3	5024.8
42.5°	9744.0	9634.1	9331.8	8840.7	8030.1	7367.2	6199.5	6148.0	6196.0	6158.3	5742.7
45°	10492.7	10406.9	10197.4	10011.9	9616.9	9283.7	7549.3	7202.4	7233.3	7102.8	6549.8
47.5°	10647.3	10551.1	10506.5	10764.1	11045.7	11128.1	9208.2	8456.0	8425.1	8136.6	7387.8
50°	9974.1	9984.4	10149.3	10884.3	12058.9	12800.8	11131.6	9871.1	9757.7	9115.5	8167.5
52.5°	8521.3	8686.1	9101.7	10293.5	12368.0	14016.6	13055.0	11372.0	11196.8	10066.8	8751.4
55°	6666.6	6879.5	7563.0	8933.4	11722.3	14559.3	14676.1	12931.3	12532.9	10781.2	9204.8
57.5°	4956.1	5021.4	5818.2	7068.4	10193.9	14026.9	15507.3	14133.4	13621.7	11351.4	9654.7
60°	3087.7	3128.9	3970.4	5382.0	7721.0	12058.9	15507.3	14961.2	14473.4	11863.1	10066.8
62.5°	1919.9	1933.7	2249.7	3688.8	5248.1	8943.7	14865.0	15603.4	15211.9	12230.6	10420.6
65°	1105.9	1119.7	1267.4	2084.8	3414.0	5354.6	13223.2	15792.3	15617.2	12522.6	10695.4
67.5°	807.1	814.0	872.4	1171.2	2232.5	2751.1	9932.9	15033.3	15253.1	12666.8	10688.5
70°	700.7	711.0	786.5	913.6	1610.8	1689.8	5055.7	12982.8	13597.6	12460.8	10369.1
72.5°	539.2	553.0	666.3	858.7	1181.5	1215.9	1830.6	9239.1	10169.9	11172.8	9493.3
75°	370.9	384.7	498.0	707.5	975.4	910.2	1006.3	4252.0	5364.9	7494.3	7226.4
77.5°	237.0	240.4	312.5	515.2	841.5	645.7	690.4	1387.6	1947.4	3390.0	3410.6
80°	158.0	161.4	192.3	333.2	577.0	597.6	425.9	642.3	704.1	989.2	686.9
82.5°	96.2	96.2	130.5	209.5	350.3	494.6	278.2	336.6	360.6	381.2	178.6
85°	37.8	37.8	79.0	137.4	219.8	230.1	175.2	195.8	206.1	223.2	82.4
87.5°	10.3	10.3	44.6	75.6	96.2	106.5	106.5	96.2	103.0	127.1	41.2
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°	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6	2802.6
2.5°	2788.9	2778.6	2764.9	2751.1	2737.4	2727.1	2716.8	2716.8	2709.9	2699.6	2692.7
5°	2782.0	2764.9	2733.9	2709.9	2672.1	2644.6	2624.0	2606.9	2596.6	2572.5	2569.1
7.5°	2771.7	2751.1	2706.5	2658.4	2596.6	2548.5	2500.4	2466.0	2431.7	2404.2	2397.4
10°	2754.6	2730.5	2665.3	2596.6	2510.7	2421.4	2308.1	2177.5	2057.3	1988.6	1968.0
12.5°	2754.6	2723.6	2637.8	2545.0	2421.4	2201.6	1913.1	1624.6	1401.3	1301.7	1274.2
15°	2771.7	2730.5	2617.2	2490.1	2260.0	1813.5	1346.4	965.1	721.3	645.7	628.5
17.5°	2788.9	2730.5	2586.3	2414.5	1964.6	1315.5	765.9	508.3	429.3	412.2	412.2
20°	2795.8	2723.6	2545.0	2273.7	1569.6	817.4	456.8	381.2	350.3	340.0	340.0
22.5°	2823.2	2727.1	2514.1	2071.1	1140.3	480.8	360.6	319.4	288.5	278.2	278.2
25°	2891.9	2768.3	2521.0	1813.5	731.6	364.1	305.7	264.5	233.6	219.8	219.8
27.5°	3001.8	2861.0	2558.8	1514.7	460.2	312.5	257.6	212.9	188.9	175.2	175.2
30°	3125.5	2964.1	2576.0	1171.2	343.5	264.5	209.5	168.3	151.1	140.8	137.4
32.5°	3341.9	3142.7	2562.2	803.7	281.6	223.2	168.3	133.9	120.2	116.8	116.8
35°	3688.8	3455.2	2534.7	504.9	233.6	178.6	133.9	109.9	99.6	96.2	92.7
37.5°	4159.3	3912.0	2452.3	333.2	192.3	140.8	109.9	92.7	82.4	79.0	79.0
40°	4732.9	4434.1	2294.3	254.2	164.9	113.3	92.7	79.0	72.1	68.7	68.7
42.5°	5388.9	5014.5	2043.6	219.8	137.4	96.2	79.0	65.3	61.8	58.4	58.4
45°	6106.7	5622.5	1696.7	195.8	116.8	79.0	65.3	58.4	51.5	51.5	48.1
47.5°	6869.2	6233.8	1305.2	171.7	99.6	68.7	58.4	48.1	44.6	41.2	41.2
50°	7604.2	6779.9	917.0	147.7	82.4	58.4	48.1	41.2	37.8	34.3	34.3
52.5°	8122.9	7109.6	649.1	127.1	68.7	51.5	37.8	30.9	27.5	27.5	27.5
55°	8538.4	7315.7	453.4	106.5	58.4	44.6	30.9	24.0	24.0	20.6	20.6
57.5°	8930.0	7449.7	333.2	89.3	48.1	34.3	24.0	17.2	17.2	13.7	13.7
60°	9335.3	7521.8	254.2	72.1	41.2	27.5	17.2	13.7	10.3	10.3	10.3
62.5°	9744.0	7566.4	195.8	58.4	34.3	20.6	13.7	10.3	6.9	3.4	3.4
65°	10101.2	7580.2	151.1	44.6	27.5	13.7	10.3	3.4	0.0	0.0	0.0
67.5°	10207.7	7422.2	116.8	34.3	20.6	10.3	6.9	0.0	0.0	0.0	0.0
70°	9919.2	7003.2	89.3	27.5	17.2	6.9	3.4	0.0	0.0	0.0	0.0
72.5°	8802.9	5873.2	68.7	17.2	13.7	6.9	3.4	0.0	0.0	0.0	0.0
75°	6299.1	3132.4	48.1	13.7	10.3	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	2898.8	1212.4	34.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0
80°	566.7	302.2	13.7	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	130.5	51.5	6.9	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.6	17.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	6.9	3.4	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)