

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: P400159

Luminaire Tested: **ARCH-L-PA3-240-750-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400159
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-PA3-240-750-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1030mA 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: 23953 lumens
Efficiency: N/A
Efficacy: 99.0 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

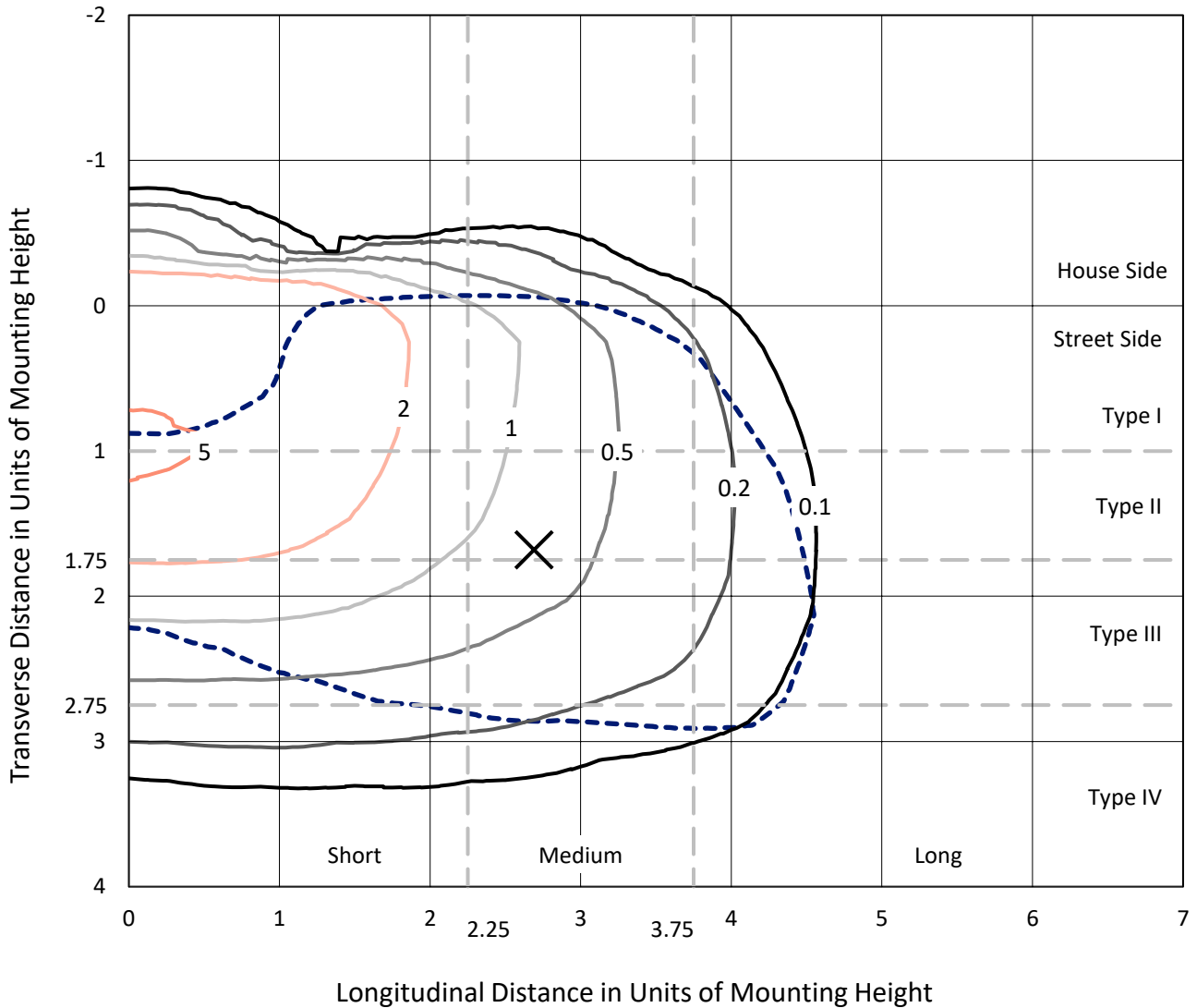
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

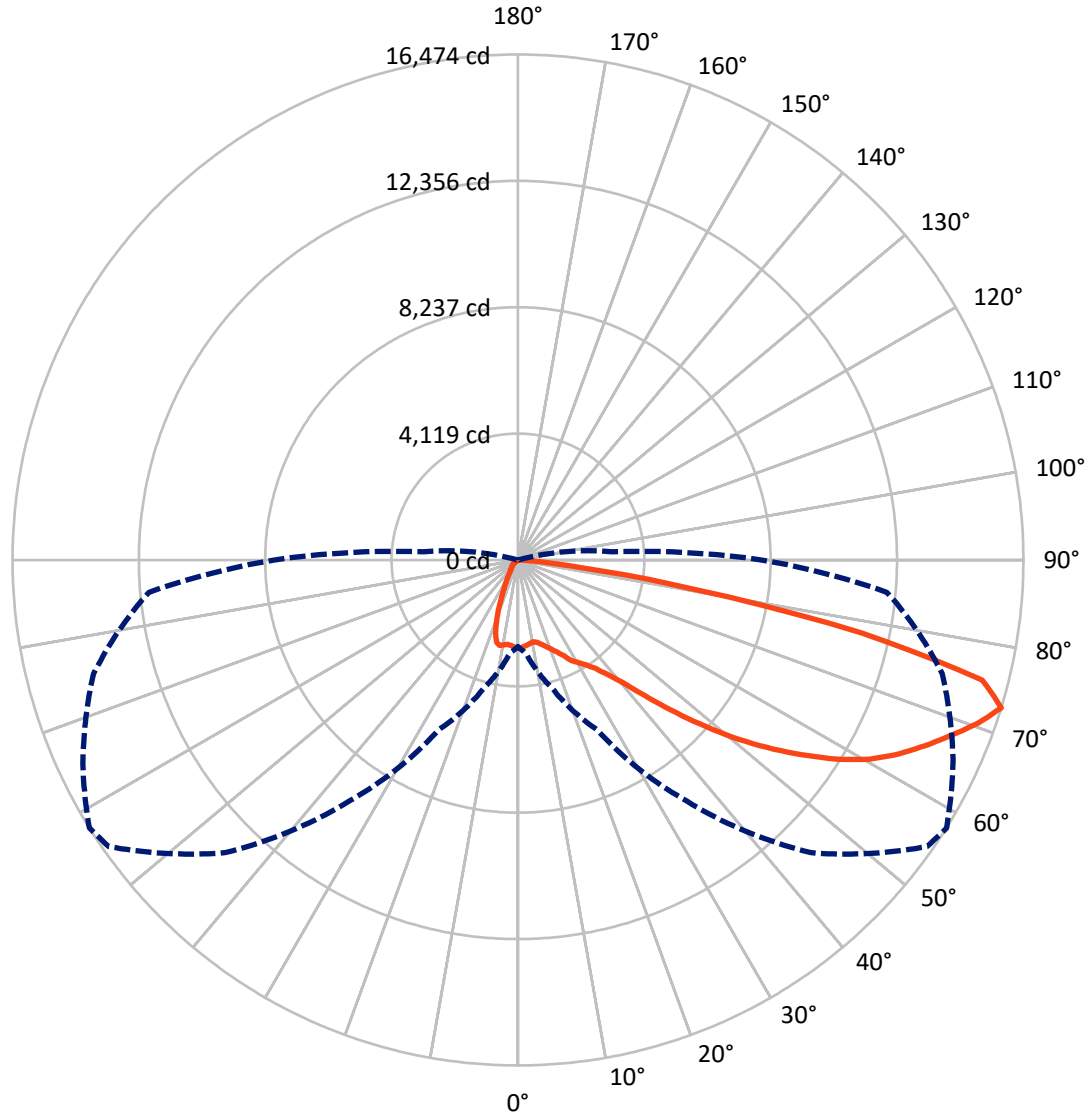
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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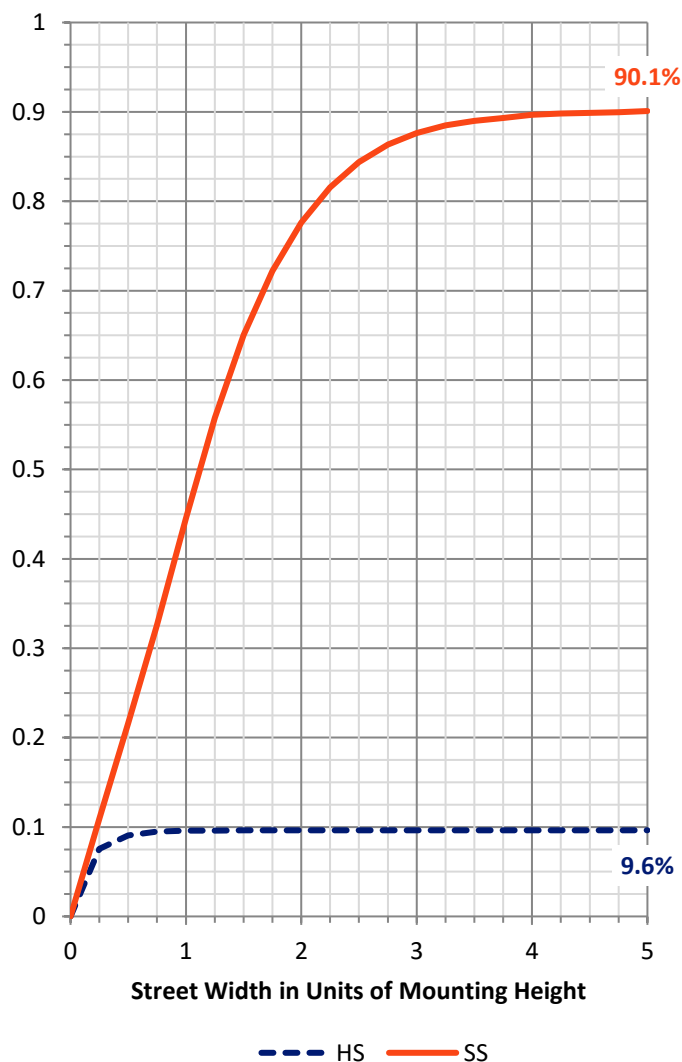
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2329.3	0.0	2329.3
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	21623.7	0.0	21623.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	23953.0	0.0	23953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.1
10°-20°	687.0	2.9
20°-30°	1079.3	4.5
30°-40°	1861.3	7.8
40°-50°	3541.3	14.8
50°-60°	5608.3	23.4
60°-70°	6544.3	27.3
70°-80°	4098.7	17.1
80°-90°	269.0	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°	23953.0	100.0
0°-180°	23953.0	100.0

Coefficient of Utilization



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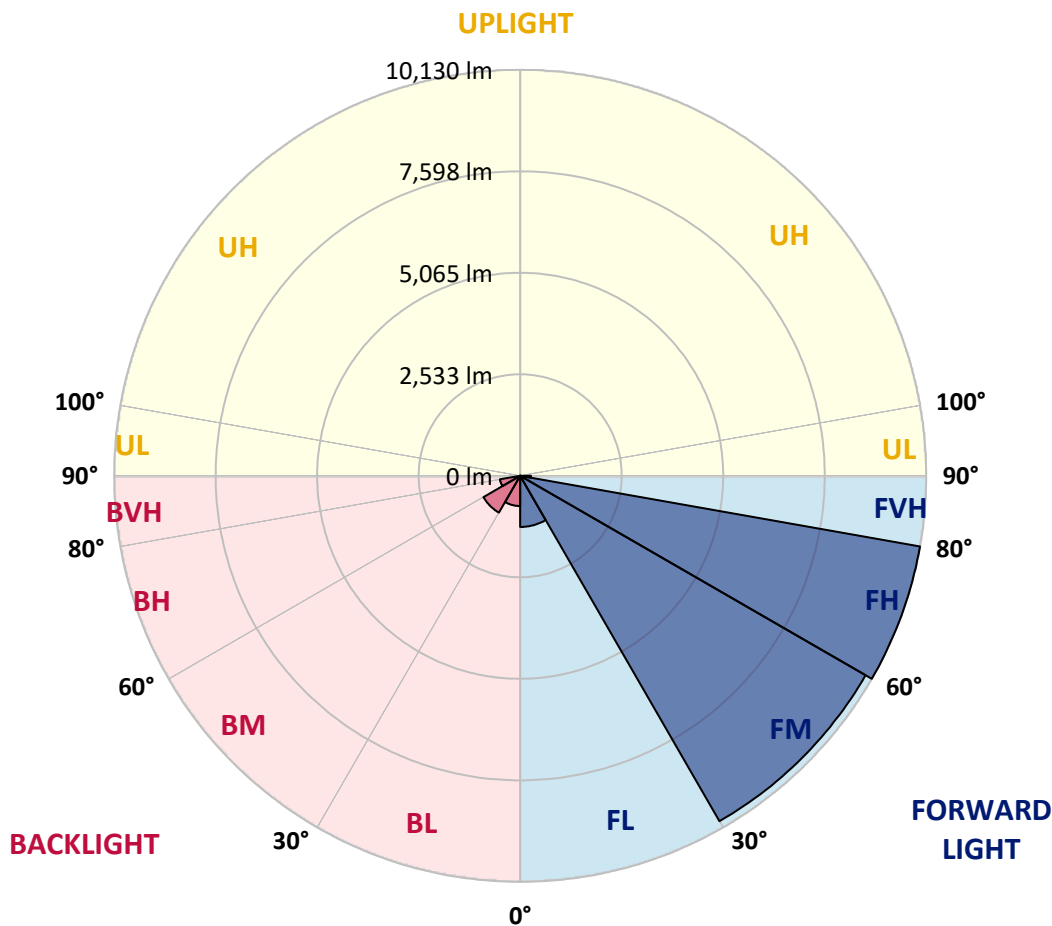
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.8	5.3			
FM (30°-60°)	9951.1	41.5			
FH (60°-80°)	10130.4	42.3			G4/12000
FVH (80°-90°)	266.4	1.1			G3/500
BL (0°-30°)	754.3	3.1	B2/1000		
BM (30°-60°)	1059.8	4.4	B2/2500		
BH (60°-80°)	512.5	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.6	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2
2.5°	2861.4	2848.5	2844.2	2839.9	2844.2	2848.5	2835.7	2848.5	2839.9	2844.2	2852.8
5°	2758.6	2745.7	2741.4	2745.7	2758.6	2780.0	2788.5	2801.4	2801.4	2814.2	2818.5
7.5°	2642.9	2634.3	2630.1	2638.6	2664.3	2711.4	2737.1	2754.3	2771.4	2797.1	2822.8
10°	2578.7	2574.4	2570.1	2582.9	2608.6	2651.5	2685.7	2711.4	2775.7	2848.5	2895.6
12.5°	2535.8	2535.8	2544.4	2570.1	2604.4	2638.6	2720.0	2754.3	2852.8	2964.2	3028.4
15°	2501.6	2501.6	2514.4	2561.5	2608.6	2690.0	2810.0	2848.5	2964.2	3101.2	3186.9
17.5°	2475.9	2484.4	2493.0	2540.1	2630.1	2767.1	2908.5	2964.2	3105.5	3255.4	3349.7
20°	2480.1	2488.7	2493.0	2540.1	2668.6	2857.1	3037.0	3101.2	3264.0	3422.5	3516.7
22.5°	2505.8	2518.7	2523.0	2587.2	2737.1	2951.3	3182.6	3255.4	3431.1	3598.1	3670.9
25°	2612.9	2621.5	2595.8	2651.5	2835.7	3097.0	3371.1	3448.2	3623.8	3778.0	3838.0
27.5°	2977.0	2985.6	2844.2	2780.0	2912.8	3216.9	3602.4	3709.5	3927.9	4030.8	4039.3
30°	3765.2	3773.7	3495.3	3191.2	3097.0	3319.7	3730.9	3880.8	4163.5	4279.2	4227.8
32.5°	4780.4	4771.8	4390.6	3940.8	3533.9	3499.6	3915.1	4073.6	4382.0	4493.4	4454.8
35°	5799.8	5812.7	5487.1	4810.3	4227.8	3838.0	4150.7	4334.9	4707.5	4866.0	4797.5
37.5°	6498.0	6583.7	6442.4	5709.9	5080.2	4463.4	4531.9	4729.0	5195.9	5410.0	5264.4
40°	7483.2	7461.8	7119.1	6579.4	6022.6	5388.6	5148.7	5243.0	5778.4	6065.4	5838.4
42.5°	8806.8	8764.0	8181.4	7654.6	7033.5	6515.2	6026.9	6009.7	6446.6	6780.7	6450.9
45°	10006.2	9942.0	9543.6	9033.9	8352.8	7757.4	7097.7	6947.8	7251.9	7534.6	7149.1
47.5°	10961.4	10854.3	10571.6	10301.8	10134.7	9209.5	8220.0	7993.0	8147.2	8357.1	7813.1
50°	12092.3	11796.7	11385.5	11222.7	11569.7	10854.3	9299.4	9081.0	9072.4	9192.3	8498.4
52.5°	12606.3	12070.8	11839.5	11976.6	12589.1	12383.5	10464.5	10151.8	10027.6	10040.5	9136.7
55°	11985.2	11925.2	12049.4	12477.8	13278.8	13158.8	11582.5	11197.0	11012.8	10781.5	9749.2
57.5°	11278.4	11462.6	11955.2	12773.3	14152.6	13968.4	12683.4	12246.5	11908.1	11376.9	10430.3
60°	10627.3	10815.8	11629.6	12841.9	14632.4	14748.0	13600.0	13184.5	12683.4	11985.2	11179.9
62.5°	9637.8	9783.5	10927.2	12743.3	14422.5	15202.1	14238.3	13925.6	13458.7	12563.4	12040.9
65°	8524.1	8618.4	9749.2	11955.2	14011.3	15150.7	14765.2	14589.5	14135.5	13167.4	12893.3
67.5°	7303.3	7414.7	8357.1	10537.4	13206.0	14910.8	15262.0	15244.9	14726.6	13835.6	13510.1
70°	5898.3	5906.9	6686.5	8738.3	11801.0	14431.0	15878.9	15917.4	15292.0	14336.8	13535.8
72.5°	2822.8	3054.1	4334.9	6099.7	9590.7	13488.7	16281.5	16474.3	15647.5	14319.7	12075.1
75°	646.8	668.2	1263.6	2899.9	5624.2	10353.2	15274.9	15634.7	14782.3	12383.5	8507.0
77.5°	235.6	248.4	355.5	848.1	2163.2	5350.1	10931.4	11458.3	10927.2	8005.8	4022.2
80°	158.5	154.2	184.2	376.9	993.8	1516.4	5589.9	5902.6	5388.6	2732.9	963.8
82.5°	81.4	85.7	128.5	209.9	668.2	526.9	1867.6	2030.4	1670.6	548.3	179.9
85°	38.6	38.6	72.8	132.8	282.7	184.2	415.5	501.2	449.8	239.9	60.0
87.5°	38.6	38.6	68.5	85.7	145.6	77.1	102.8	128.5	119.9	128.5	21.4
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°	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2	2874.2
2.5°	2852.8	2848.5	2844.2	2852.8	2848.5	2857.1	2857.1	2865.6	2865.6	2857.1	2852.8
5°	2814.2	2805.7	2797.1	2797.1	2792.8	2801.4	2827.1	2848.5	2852.8	2839.9	2835.7
7.5°	2818.5	2818.5	2810.0	2792.8	2762.8	2762.8	2762.8	2788.5	2801.4	2792.8	2788.5
10°	2895.6	2899.9	2878.5	2839.9	2788.5	2741.4	2651.5	2518.7	2394.5	2360.2	2347.3
12.5°	3028.4	3032.7	2989.9	2921.3	2814.2	2535.8	2193.1	1876.2	1632.0	1563.5	1550.6
15°	3186.9	3191.2	3114.1	3002.7	2677.2	2030.4	1520.6	1160.8	946.6	895.2	891.0
17.5°	3349.7	3341.1	3225.5	3011.3	2270.2	1439.2	925.2	741.0	685.4	672.5	676.8
20°	3508.2	3482.5	3324.0	2852.8	1747.7	942.4	676.8	634.0	621.1	612.5	612.5
22.5°	3653.8	3602.4	3405.4	2540.1	1225.1	676.8	604.0	595.4	578.3	565.4	561.1
25°	3799.4	3726.6	3456.8	2133.2	822.4	591.1	569.7	552.6	531.2	514.0	509.7
27.5°	3975.1	3872.3	3431.1	1619.2	616.8	548.3	531.2	505.5	475.5	449.8	441.2
30°	4142.1	4026.5	3285.4	1118.0	526.9	505.5	479.7	441.2	402.6	372.7	364.1
32.5°	4352.0	4219.2	3024.1	732.5	458.3	441.2	415.5	368.4	317.0	282.7	274.1
35°	4651.9	4501.9	2690.0	514.0	402.6	372.7	338.4	287.0	231.3	205.6	201.3
37.5°	5071.6	4870.3	2270.2	415.5	355.5	312.7	261.3	209.9	171.3	149.9	145.6
40°	5585.7	5277.2	1803.3	368.4	317.0	261.3	197.0	149.9	124.2	107.1	107.1
42.5°	6142.5	5658.5	1327.9	338.4	278.4	214.2	145.6	107.1	90.0	81.4	77.1
45°	6716.5	5996.9	895.2	312.7	244.2	162.8	102.8	72.8	60.0	60.0	55.7
47.5°	7311.9	6223.9	578.3	282.7	205.6	119.9	68.5	51.4	42.8	42.8	42.8
50°	7903.0	6343.8	411.2	257.0	167.1	81.4	51.4	38.6	34.3	34.3	34.3
52.5°	8331.4	6266.7	329.8	222.7	128.5	60.0	38.6	30.0	25.7	25.7	25.7
55°	8704.0	6133.9	287.0	192.8	94.2	42.8	30.0	25.7	21.4	21.4	21.4
57.5°	9085.3	5962.6	257.0	162.8	68.5	30.0	21.4	17.1	17.1	17.1	17.1
60°	9432.2	5671.3	222.7	128.5	47.1	21.4	17.1	12.9	12.9	12.9	12.9
62.5°	9770.6	5422.9	192.8	98.5	34.3	17.1	8.6	8.6	4.3	4.3	4.3
65°	9963.4	5088.8	154.2	64.3	21.4	12.9	4.3	4.3	0.0	0.0	0.0
67.5°	9903.4	4690.4	107.1	38.6	12.9	8.6	4.3	0.0	0.0	0.0	0.0
70°	9487.9	4155.0	64.3	21.4	12.9	8.6	4.3	0.0	0.0	0.0	0.0
72.5°	7945.9	3075.5	38.6	17.1	8.6	4.3	0.0	0.0	0.0	0.0	0.0
75°	5307.2	1413.5	21.4	12.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0
77.5°	2428.7	424.1	12.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	488.3	111.4	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	102.8	21.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	4.3	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)