

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: P400150

Luminaire Tested: **ARCH-L-PA3-240-740-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400150
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-PA3-240-740-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 23954 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

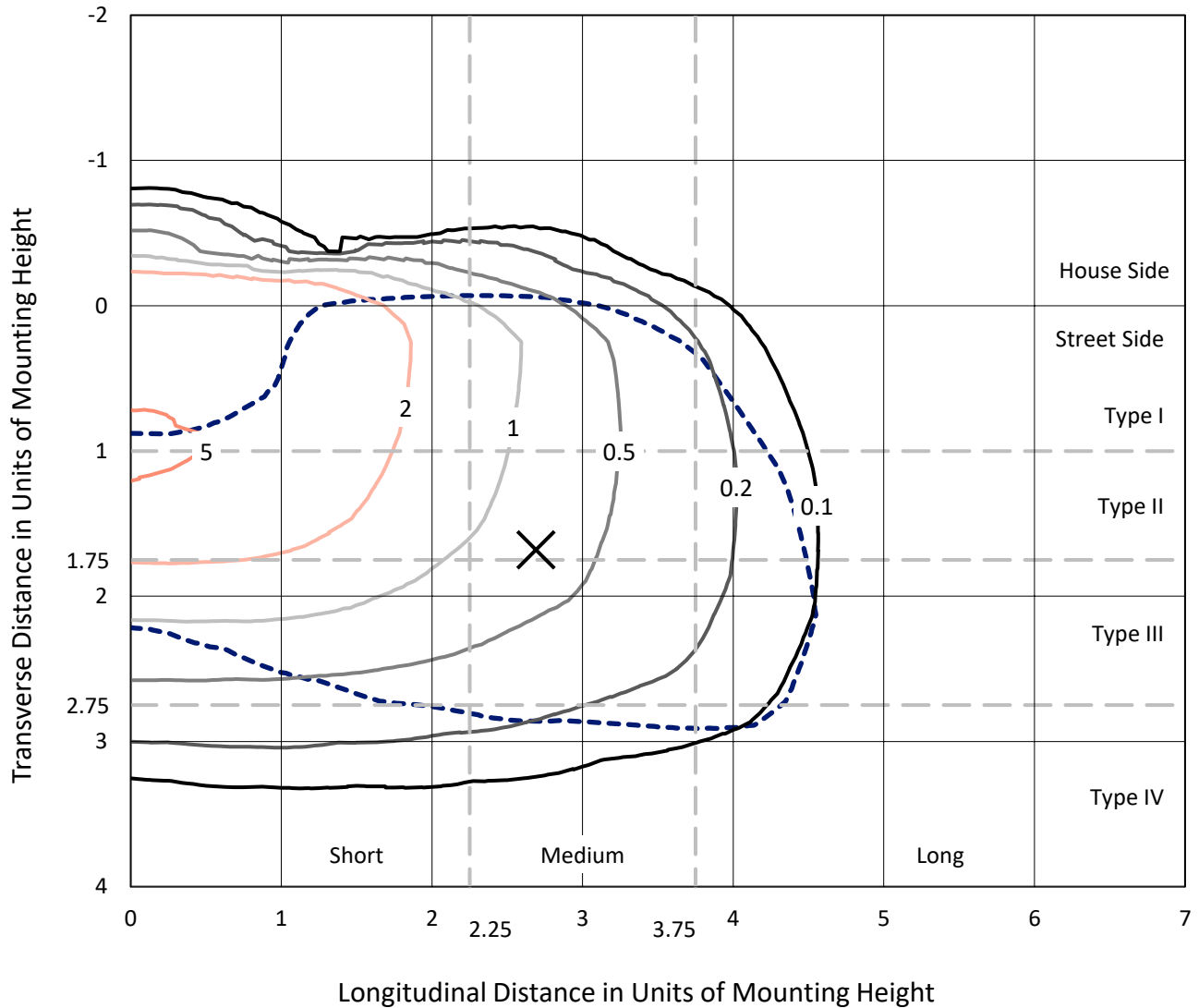
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

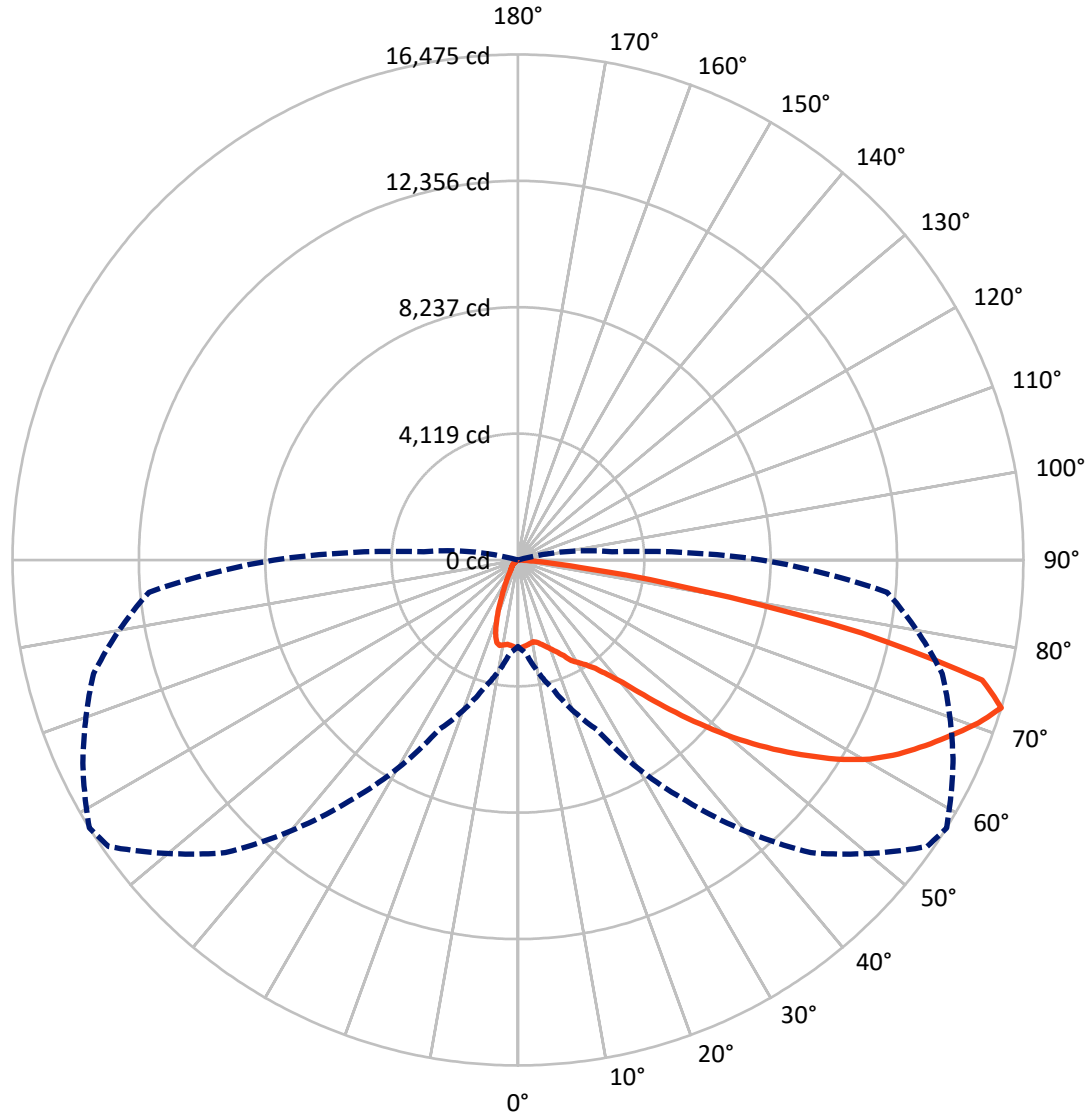
✕ Max cd
 - - - 1/2 Max cd



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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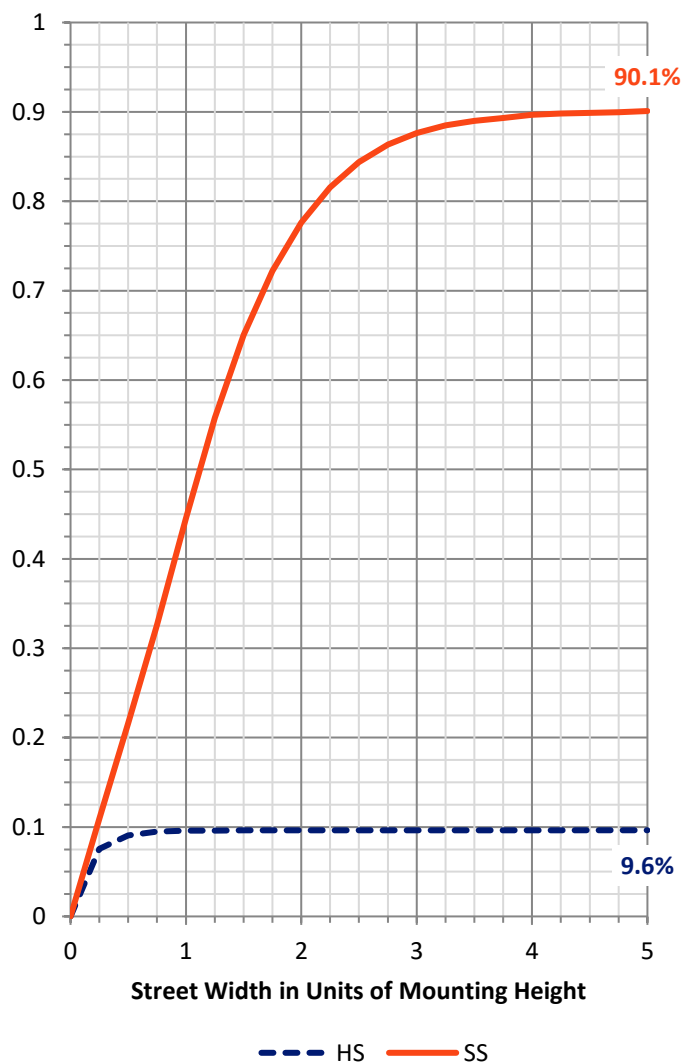
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2329.4	0.0	2329.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	21624.6	0.0	21624.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	23954.0	0.0	23954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.1
10°-20°	687.1	2.9
20°-30°	1079.3	4.5
30°-40°	1861.4	7.8
40°-50°	3541.4	14.8
50°-60°	5608.5	23.4
60°-70°	6544.5	27.3
70°-80°	4098.9	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°	23954.0	100.0
0°-180°	23954.0	100.0

Coefficient of Utilization

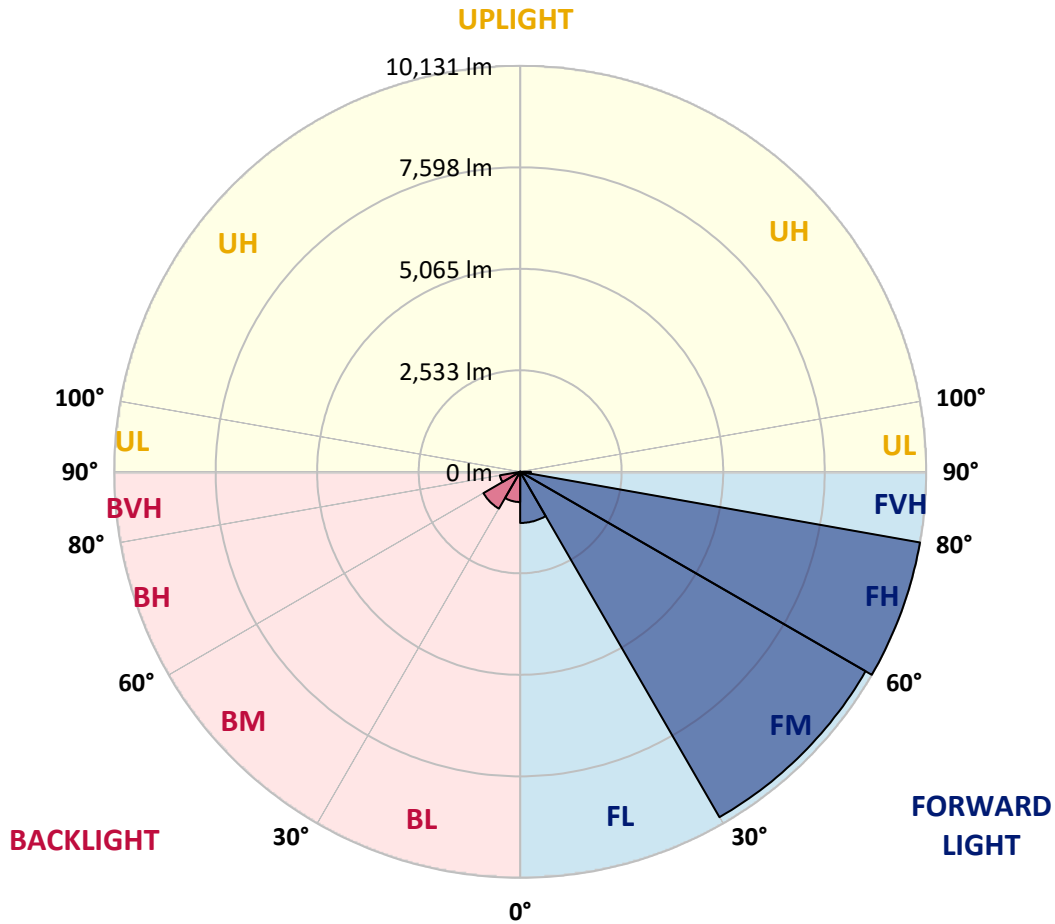


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.9	5.3			
FM (30°-60°)	9951.5	41.5			
FH (60°-80°)	10130.8	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°)	1059.9	4.4	B2/2500		
BH (60°-80°)	512.6	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°	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3
2.5°	2861.5	2848.6	2844.3	2840.1	2844.3	2848.6	2835.8	2848.6	2840.1	2844.3	2852.9
5°	2758.7	2745.8	2741.5	2745.8	2758.7	2780.1	2788.7	2801.5	2801.5	2814.4	2818.6
7.5°	2643.0	2634.4	2630.2	2638.7	2664.4	2711.6	2737.3	2754.4	2771.5	2797.2	2822.9
10°	2578.8	2574.5	2570.2	2583.0	2608.7	2651.6	2685.9	2711.6	2775.8	2848.6	2895.8
12.5°	2535.9	2535.9	2544.5	2570.2	2604.5	2638.7	2720.1	2754.4	2852.9	2964.3	3028.5
15°	2501.7	2501.7	2514.5	2561.6	2608.7	2690.1	2810.1	2848.6	2964.3	3101.4	3187.0
17.5°	2476.0	2484.5	2493.1	2540.2	2630.2	2767.2	2908.6	2964.3	3105.7	3255.6	3349.8
20°	2480.2	2488.8	2493.1	2540.2	2668.7	2857.2	3037.1	3101.4	3264.1	3422.6	3516.9
22.5°	2505.9	2518.8	2523.1	2587.3	2737.3	2951.4	3182.8	3255.6	3431.2	3598.3	3671.1
25°	2613.0	2621.6	2595.9	2651.6	2835.8	3097.1	3371.2	3448.3	3624.0	3778.2	3838.2
27.5°	2977.1	2985.7	2844.3	2780.1	2912.9	3217.0	3602.6	3709.6	3928.1	4030.9	4039.5
30°	3765.3	3773.9	3495.5	3191.3	3097.1	3319.8	3731.1	3881.0	4163.7	4279.4	4228.0
32.5°	4780.6	4772.0	4390.7	3941.0	3534.0	3499.7	3915.3	4073.8	4382.2	4493.6	4455.0
35°	5800.1	5812.9	5487.4	4810.5	4228.0	3838.2	4150.9	4335.1	4707.7	4866.2	4797.7
37.5°	6498.3	6584.0	6442.6	5710.1	5080.4	4463.6	4532.1	4729.2	5196.1	5410.3	5264.6
40°	7483.5	7462.1	7119.4	6579.7	6022.8	5388.8	5149.0	5243.2	5778.7	6065.7	5838.6
42.5°	8807.2	8764.4	8181.8	7654.9	7033.8	6515.4	6027.1	6010.0	6446.9	6781.0	6451.2
45°	10006.6	9942.4	9544.0	9034.2	8353.1	7757.7	7098.0	6948.1	7252.2	7535.0	7149.4
47.5°	10961.9	10854.8	10572.1	10302.2	10135.1	9209.9	8220.3	7993.3	8147.5	8357.4	7813.4
50°	12092.8	11797.2	11386.0	11223.2	11570.2	10854.8	9299.8	9081.4	9072.8	9192.7	8498.8
52.5°	12606.8	12071.3	11840.0	11977.1	12589.7	12384.1	10465.0	10152.3	10028.0	10040.9	9137.0
55°	11985.7	11925.7	12049.9	12478.3	13279.3	13159.4	11583.0	11197.5	11013.3	10782.0	9749.6
57.5°	11278.9	11463.1	11955.7	12773.9	14153.2	13969.0	12683.9	12247.0	11908.6	11377.4	10430.7
60°	10627.8	10816.2	11630.1	12842.4	14633.0	14748.6	13600.6	13185.1	12683.9	11985.7	11180.3
62.5°	9638.2	9783.9	10927.6	12743.9	14423.1	15202.7	14238.9	13926.2	13459.3	12564.0	12041.4
65°	8524.5	8618.7	9749.6	11955.7	14011.8	15151.3	14765.8	14590.1	14136.1	13168.0	12893.8
67.5°	7303.6	7415.0	8357.4	10537.8	13206.5	14911.4	15262.7	15245.5	14727.2	13836.2	13510.7
70°	5898.6	5907.2	6686.8	8738.7	11801.5	14431.6	15879.5	15918.1	15292.7	14337.4	13536.4
72.5°	2822.9	3054.2	4335.1	6099.9	9591.1	13489.2	16282.2	16474.9	15648.2	14320.3	12075.6
75°	646.8	668.3	1263.7	2900.0	5624.4	10353.6	15275.5	15635.3	14782.9	12384.1	8507.3
77.5°	235.6	248.5	355.5	848.2	2163.2	5350.3	10931.9	11458.8	10927.6	8006.2	4022.4
80°	158.5	154.2	184.2	377.0	993.8	1516.4	5590.2	5902.9	5388.8	2733.0	963.8
82.5°	81.4	85.7	128.5	209.9	668.3	526.9	1867.7	2030.5	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°	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3
2.5°	2852.9	2848.6	2844.3	2852.9	2848.6	2857.2	2857.2	2865.8	2865.8	2857.2	2852.9
5°	2814.4	2805.8	2797.2	2797.2	2792.9	2801.5	2827.2	2848.6	2852.9	2840.1	2835.8
7.5°	2818.6	2818.6	2810.1	2792.9	2763.0	2763.0	2763.0	2788.7	2801.5	2792.9	2788.7
10°	2895.8	2900.0	2878.6	2840.1	2788.7	2741.5	2651.6	2518.8	2394.6	2360.3	2347.4
12.5°	3028.5	3032.8	2990.0	2921.5	2814.4	2535.9	2193.2	1876.2	1632.1	1563.5	1550.7
15°	3187.0	3191.3	3114.2	3002.8	2677.3	2030.5	1520.7	1160.9	946.7	895.3	891.0
17.5°	3349.8	3341.3	3225.6	3011.4	2270.3	1439.3	925.3	741.1	685.4	672.5	676.8
20°	3508.3	3482.6	3324.1	2852.9	1747.7	942.4	676.8	634.0	621.1	612.6	612.6
22.5°	3654.0	3602.6	3405.5	2540.2	1225.1	676.8	604.0	595.4	578.3	565.4	561.2
25°	3799.6	3726.8	3456.9	2133.3	822.5	591.1	569.7	552.6	531.2	514.0	509.8
27.5°	3975.2	3872.4	3431.2	1619.2	616.8	548.3	531.2	505.5	475.5	449.8	441.2
30°	4142.3	4026.6	3285.6	1118.0	526.9	505.5	479.8	441.2	402.7	372.7	364.1
32.5°	4352.2	4219.4	3024.3	732.5	458.4	441.2	415.5	368.4	317.0	282.7	274.2
35°	4652.1	4502.1	2690.1	514.0	402.7	372.7	338.4	287.0	231.3	205.6	201.3
37.5°	5071.9	4870.5	2270.3	415.5	355.5	312.7	261.3	209.9	171.3	149.9	145.6
40°	5585.9	5277.5	1803.4	368.4	317.0	261.3	197.0	149.9	124.2	107.1	107.1
42.5°	6142.8	5658.7	1327.9	338.4	278.4	214.2	145.6	107.1	90.0	81.4	77.1
45°	6716.8	5997.1	895.3	312.7	244.2	162.8	102.8	72.8	60.0	60.0	55.7
47.5°	7312.2	6224.2	578.3	282.7	205.6	119.9	68.5	51.4	42.8	42.8	42.8
50°	7903.3	6344.1	411.2	257.0	167.1	81.4	51.4	38.6	34.3	34.3	34.3
52.5°	8331.7	6267.0	329.8	222.8	128.5	60.0	38.6	30.0	25.7	25.7	25.7
55°	8704.4	6134.2	287.0	192.8	94.2	42.8	30.0	25.7	21.4	21.4	21.4
57.5°	9085.6	5962.9	257.0	162.8	68.5	30.0	21.4	17.1	17.1	17.1	17.1
60°	9432.6	5671.6	222.8	128.5	47.1	21.4	17.1	12.9	12.9	12.9	12.9
62.5°	9771.0	5423.1	192.8	98.5	34.3	17.1	8.6	8.6	4.3	4.3	4.3
65°	9963.8	5089.0	154.2	64.3	21.4	12.9	4.3	4.3	0.0	0.0	0.0
67.5°	9903.8	4690.6	107.1	38.6	12.9	8.6	4.3	0.0	0.0	0.0	0.0
70°	9488.3	4155.1	64.3	21.4	12.9	8.6	4.3	0.0	0.0	0.0	0.0
72.5°	7946.2	3075.7	38.6	17.1	8.6	4.3	0.0	0.0	0.0	0.0	0.0
75°	5307.5	1413.6	21.4	12.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0
77.5°	2428.8	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)