

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: P400420

Luminaire Tested: **ARCH-L-PA3-280-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400420
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-PA3-280-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1180mA 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: 21873 lumens
Efficiency: N/A
Efficacy: 78.4 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

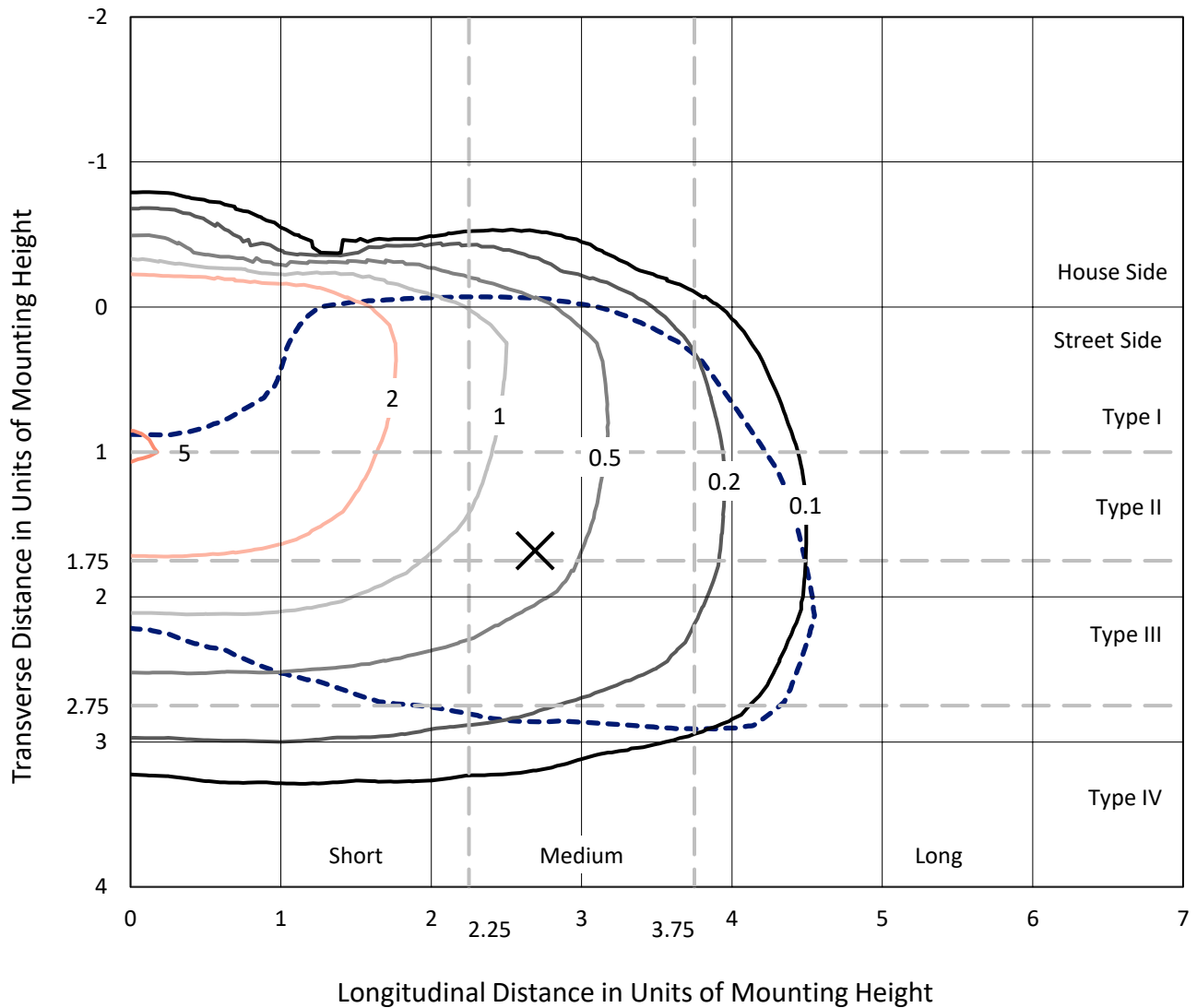
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400420
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Iso-Footcandle Lines of Horizontal Illumination

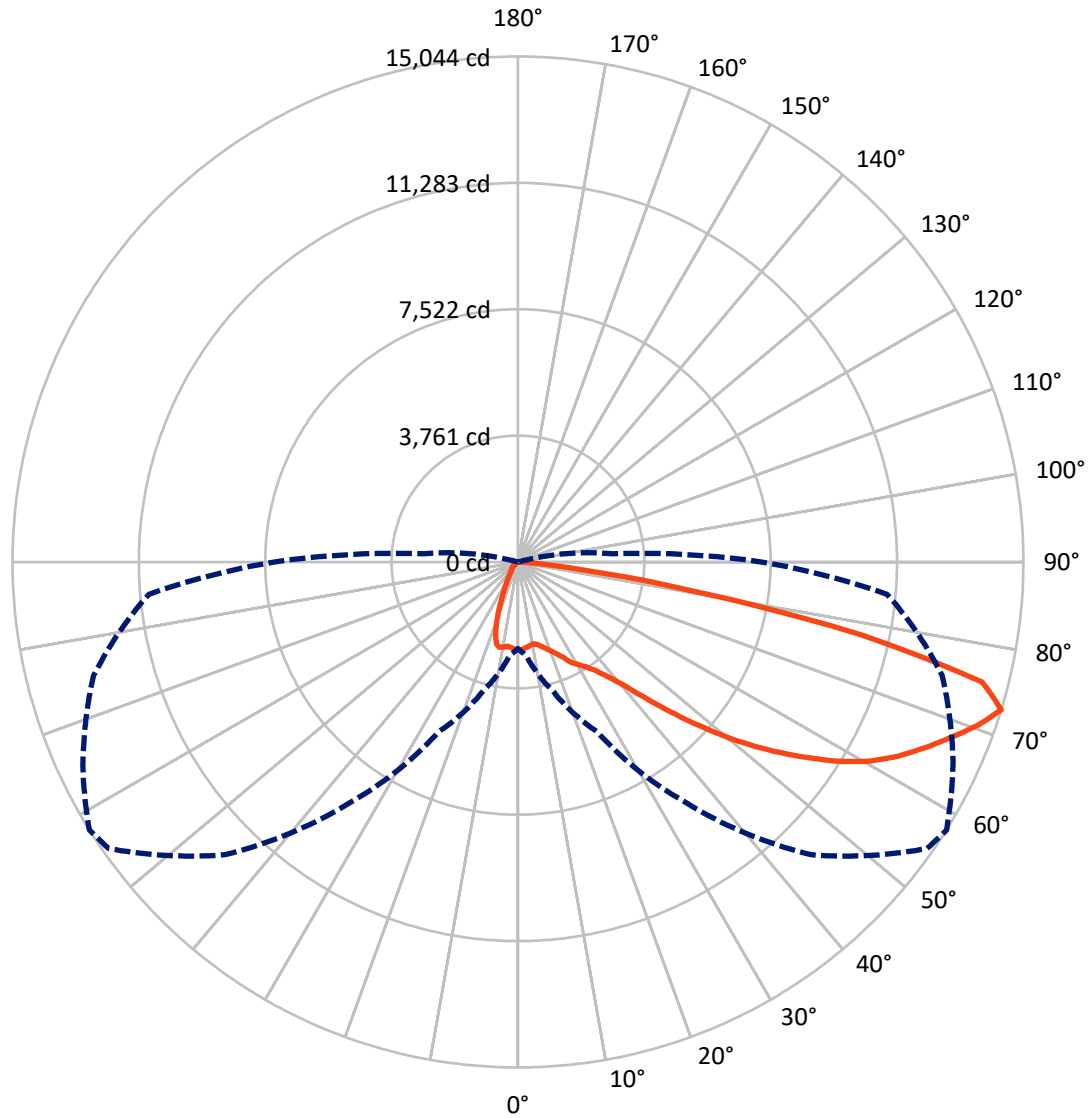
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400420
CATALOG NUMBER: ARCH-L-PA3-280-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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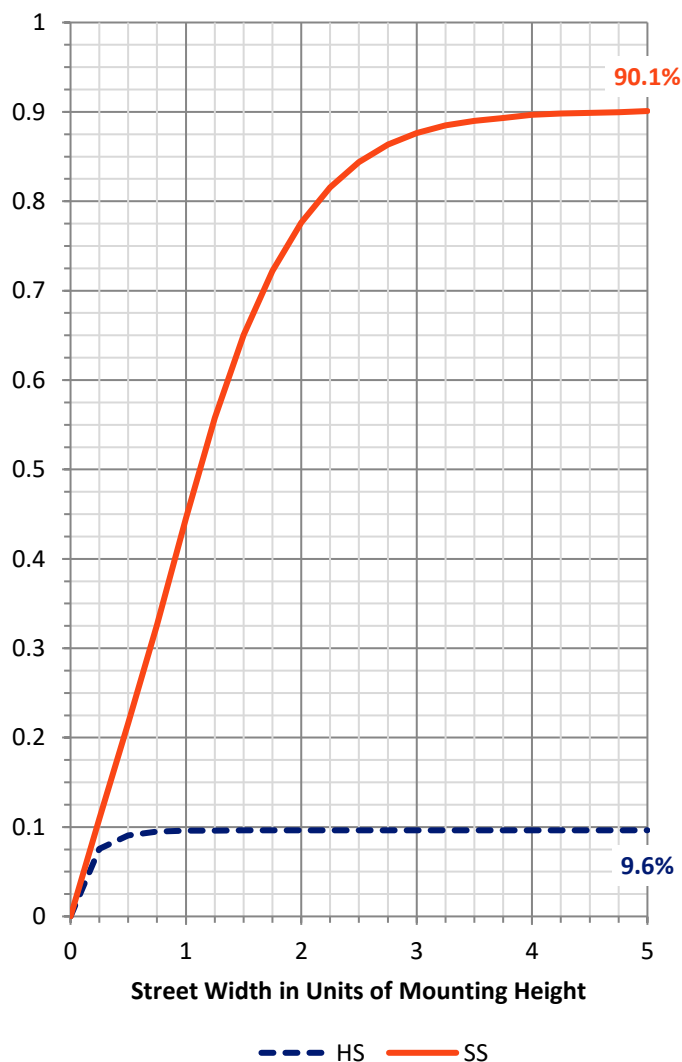
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2127.0	0.0	2127.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	19746.0	0.0	19746.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	21873.0	0.0	21873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.1
10°-20°	627.4	2.9
20°-30°	985.6	4.5
30°-40°	1699.7	7.8
40°-50°	3233.8	14.8
50°-60°	5121.3	23.4
60°-70°	5976.0	27.3
70°-80°	3742.8	17.1
80°-90°	245.7	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°	21873.0	100.0
0°-180°	21873.0	100.0

Coefficient of Utilization

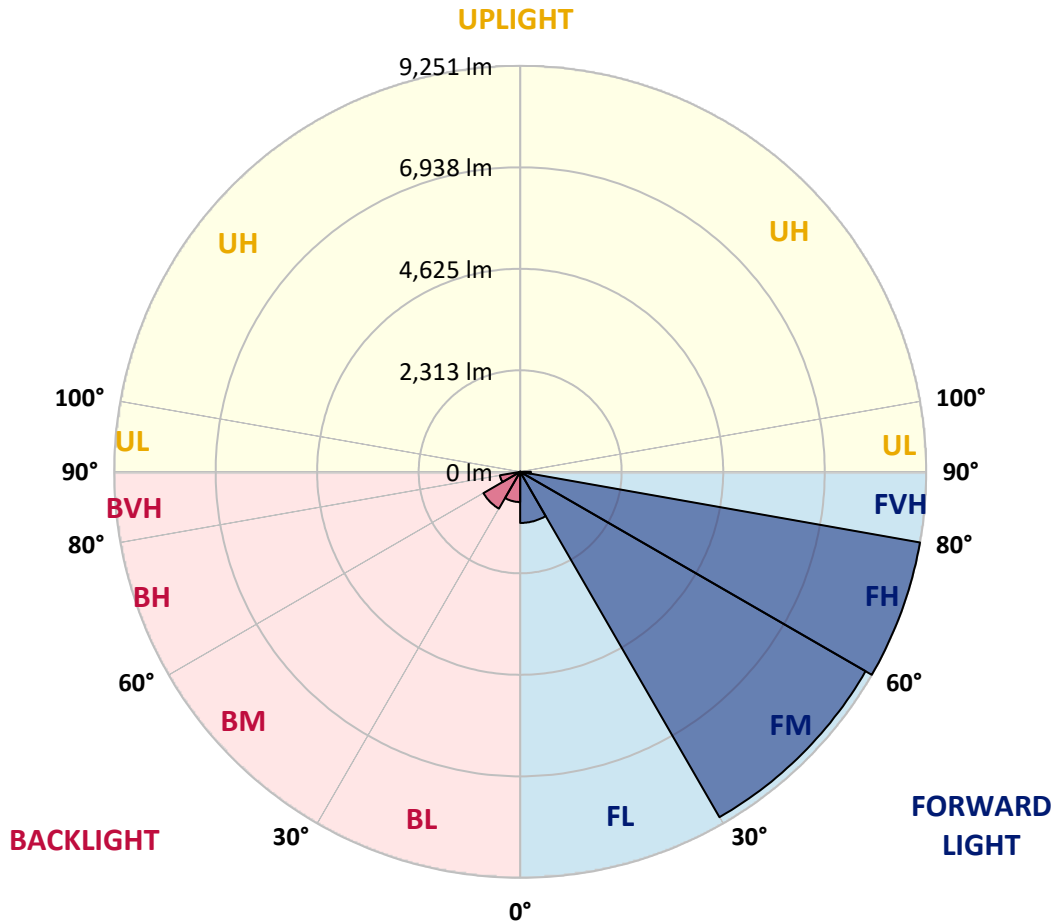


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1165.0	5.3			
FM (30°-60°)	9087.0	41.5			
FH (60°-80°)	9250.7	42.3			G4/12000
FVH (80°-90°)	243.3	1.1			G3/500
BL (0°-30°)	688.8	3.1	B2/1000		
BM (30°-60°)	967.8	4.4	B1/1000		
BH (60°-80°)	468.0	2.1	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4
 Type IV Medium





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CATALOG NUMBER: ARCH-L-PA3-280-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2612.9	2601.2	2597.2	2593.3	2597.2	2601.2	2589.4	2601.2	2593.3	2597.2	2605.1
5°	2519.0	2507.3	2503.4	2507.3	2519.0	2538.6	2546.4	2558.1	2558.1	2569.9	2573.8
7.5°	2413.4	2405.6	2401.7	2409.5	2433.0	2476.0	2499.5	2515.1	2530.8	2554.2	2577.7
10°	2354.7	2350.8	2346.9	2358.6	2382.1	2421.2	2452.5	2476.0	2534.7	2601.2	2644.2
12.5°	2315.6	2315.6	2323.4	2346.9	2378.2	2409.5	2483.8	2515.1	2605.1	2706.8	2765.4
15°	2284.3	2284.3	2296.1	2339.1	2382.1	2456.4	2566.0	2601.2	2706.8	2831.9	2910.2
17.5°	2260.9	2268.7	2276.5	2319.5	2401.7	2526.8	2655.9	2706.8	2835.8	2972.8	3058.8
20°	2264.8	2272.6	2276.5	2319.5	2436.9	2609.0	2773.3	2831.9	2980.6	3125.3	3211.4
22.5°	2288.2	2300.0	2303.9	2362.6	2499.5	2695.0	2906.3	2972.8	3133.1	3285.7	3352.2
25°	2386.0	2393.8	2370.4	2421.2	2589.4	2828.0	3078.4	3148.8	3309.1	3450.0	3504.7
27.5°	2718.5	2726.3	2597.2	2538.6	2659.8	2937.5	3289.6	3387.4	3586.9	3680.7	3688.6
30°	3438.2	3446.0	3191.8	2914.1	2828.0	3031.4	3406.9	3543.8	3802.0	3907.6	3860.7
32.5°	4365.3	4357.4	4009.3	3598.6	3227.0	3195.7	3575.1	3719.9	4001.5	4103.2	4068.0
35°	5296.2	5307.9	5010.7	4392.6	3860.7	3504.7	3790.3	3958.5	4298.8	4443.5	4380.9
37.5°	5933.8	6012.0	5882.9	5214.0	4639.1	4075.8	4138.4	4318.3	4744.7	4940.2	4807.3
40°	6833.4	6813.9	6500.9	6008.1	5499.6	4920.7	4701.6	4787.7	5276.6	5538.7	5331.4
42.5°	8042.1	8003.0	7471.0	6989.9	6422.7	5949.4	5503.5	5487.9	5886.8	6191.9	5890.7
45°	9137.3	9078.6	8714.9	8249.4	7627.5	7083.8	6481.4	6344.5	6622.2	6880.4	6528.3
47.5°	10009.6	9911.8	9653.6	9407.2	9254.6	8409.8	7506.2	7298.9	7439.7	7631.4	7134.6
50°	11042.2	10772.3	10396.8	10248.2	10565.0	9911.8	8491.9	8292.4	8284.6	8394.1	7760.4
52.5°	11511.6	11022.6	10811.4	10936.6	11495.9	11308.2	9555.8	9270.3	9156.9	9168.6	8343.3
55°	10944.4	10889.7	11003.1	11394.2	12125.7	12016.2	10576.7	10224.7	10056.5	9845.3	8902.6
57.5°	10299.0	10467.2	10917.0	11664.1	12923.6	12755.5	11582.0	11183.0	10874.0	10389.0	9524.5
60°	9704.5	9876.6	10619.8	11726.7	13361.7	13467.3	12419.1	12039.6	11582.0	10944.4	10209.1
62.5°	8800.9	8933.9	9978.3	11636.8	13170.1	13882.0	13001.9	12716.3	12290.0	11472.5	10995.3
65°	7783.9	7870.0	8902.6	10917.0	12794.6	13835.0	13483.0	13322.6	12908.0	12024.0	11773.7
67.5°	6669.1	6770.8	7631.4	9622.3	12059.2	13616.0	13936.7	13921.1	13447.8	12634.2	12336.9
70°	5386.2	5394.0	6105.9	7979.5	10776.2	13177.9	14500.0	14535.2	13964.1	13091.8	12360.4
72.5°	2577.7	2788.9	3958.5	5570.0	8757.9	12317.4	14867.7	15043.7	14288.8	13076.2	11026.6
75°	590.6	610.2	1153.9	2648.1	5135.8	9454.1	13948.5	14277.0	13498.6	11308.2	7768.3
77.5°	215.1	226.9	324.7	774.5	1975.3	4885.5	9982.2	10463.3	9978.3	7310.6	3672.9
80°	144.7	140.8	168.2	344.2	907.5	1384.7	5104.5	5390.1	4920.7	2495.5	880.1
82.5°	74.3	78.2	117.3	191.7	610.2	481.1	1705.4	1854.1	1525.5	500.7	164.3
85°	35.2	35.2	66.5	121.3	258.2	168.2	379.4	457.6	410.7	219.0	54.8
87.5°	35.2	35.2	62.6	78.2	133.0	70.4	93.9	117.3	109.5	117.3	19.6
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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 CATALOG NUMBER: ARCH-L-PA3-280-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2605.1	2601.2	2597.2	2605.1	2601.2	2609.0	2609.0	2616.8	2616.8	2609.0	2605.1
5°	2569.9	2562.0	2554.2	2554.2	2550.3	2558.1	2581.6	2601.2	2605.1	2593.3	2589.4
7.5°	2573.8	2573.8	2566.0	2550.3	2522.9	2522.9	2522.9	2546.4	2558.1	2550.3	2546.4
10°	2644.2	2648.1	2628.5	2593.3	2546.4	2503.4	2421.2	2300.0	2186.5	2155.2	2143.5
12.5°	2765.4	2769.4	2730.2	2667.7	2569.9	2315.6	2002.7	1713.2	1490.3	1427.7	1416.0
15°	2910.2	2914.1	2843.7	2742.0	2444.7	1854.1	1388.6	1060.0	864.4	817.5	813.6
17.5°	3058.8	3051.0	2945.4	2749.8	2073.1	1314.3	844.9	676.7	625.8	614.1	618.0
20°	3203.5	3180.1	3035.3	2605.1	1595.9	860.5	618.0	578.9	567.2	559.3	559.3
22.5°	3336.5	3289.6	3109.7	2319.5	1118.7	618.0	551.5	543.7	528.1	516.3	512.4
25°	3469.5	3403.0	3156.6	1947.9	751.0	539.8	520.2	504.6	485.0	469.4	465.5
27.5°	3629.9	3536.0	3133.1	1478.6	563.3	500.7	485.0	461.6	434.2	410.7	402.9
30°	3782.4	3676.8	3000.1	1020.9	481.1	461.6	438.1	402.9	367.7	340.3	332.5
32.5°	3974.1	3852.8	2761.5	668.9	418.5	402.9	379.4	336.4	289.5	258.2	250.3
35°	4247.9	4111.0	2456.4	469.4	367.7	340.3	309.0	262.1	211.2	187.8	183.8
37.5°	4631.2	4447.4	2073.1	379.4	324.7	285.5	238.6	191.7	156.5	136.9	133.0
40°	5100.6	4819.0	1646.7	336.4	289.5	238.6	179.9	136.9	113.4	97.8	97.8
42.5°	5609.1	5167.1	1212.6	309.0	254.2	195.6	133.0	97.8	82.1	74.3	70.4
45°	6133.3	5476.1	817.5	285.5	223.0	148.6	93.9	66.5	54.8	54.8	50.8
47.5°	6677.0	5683.4	528.1	258.2	187.8	109.5	62.6	46.9	39.1	39.1	39.1
50°	7216.7	5793.0	375.5	234.7	152.5	74.3	46.9	35.2	31.3	31.3	31.3
52.5°	7607.9	5722.5	301.2	203.4	117.3	54.8	35.2	27.4	23.5	23.5	23.5
55°	7948.2	5601.3	262.1	176.0	86.1	39.1	27.4	23.5	19.6	19.6	19.6
57.5°	8296.3	5444.8	234.7	148.6	62.6	27.4	19.6	15.6	15.6	15.6	15.6
60°	8613.2	5178.8	203.4	117.3	43.0	19.6	15.6	11.7	11.7	11.7	11.7
62.5°	8922.2	4952.0	176.0	90.0	31.3	15.6	7.8	7.8	3.9	3.9	3.9
65°	9098.2	4646.9	140.8	58.7	19.6	11.7	3.9	3.9	0.0	0.0	0.0
67.5°	9043.4	4283.1	97.8	35.2	11.7	7.8	3.9	0.0	0.0	0.0	0.0
70°	8664.0	3794.2	58.7	19.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
72.5°	7255.9	2808.5	35.2	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
75°	4846.4	1290.8	19.6	11.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	2217.8	387.2	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	445.9	101.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.9	19.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	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)