

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: P400204

Luminaire Tested: **ARCH-L-PA3-250-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400204
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-PA3-250-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1070mA 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: 20492 lumens
Efficiency: N/A
Efficacy: 81.6 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

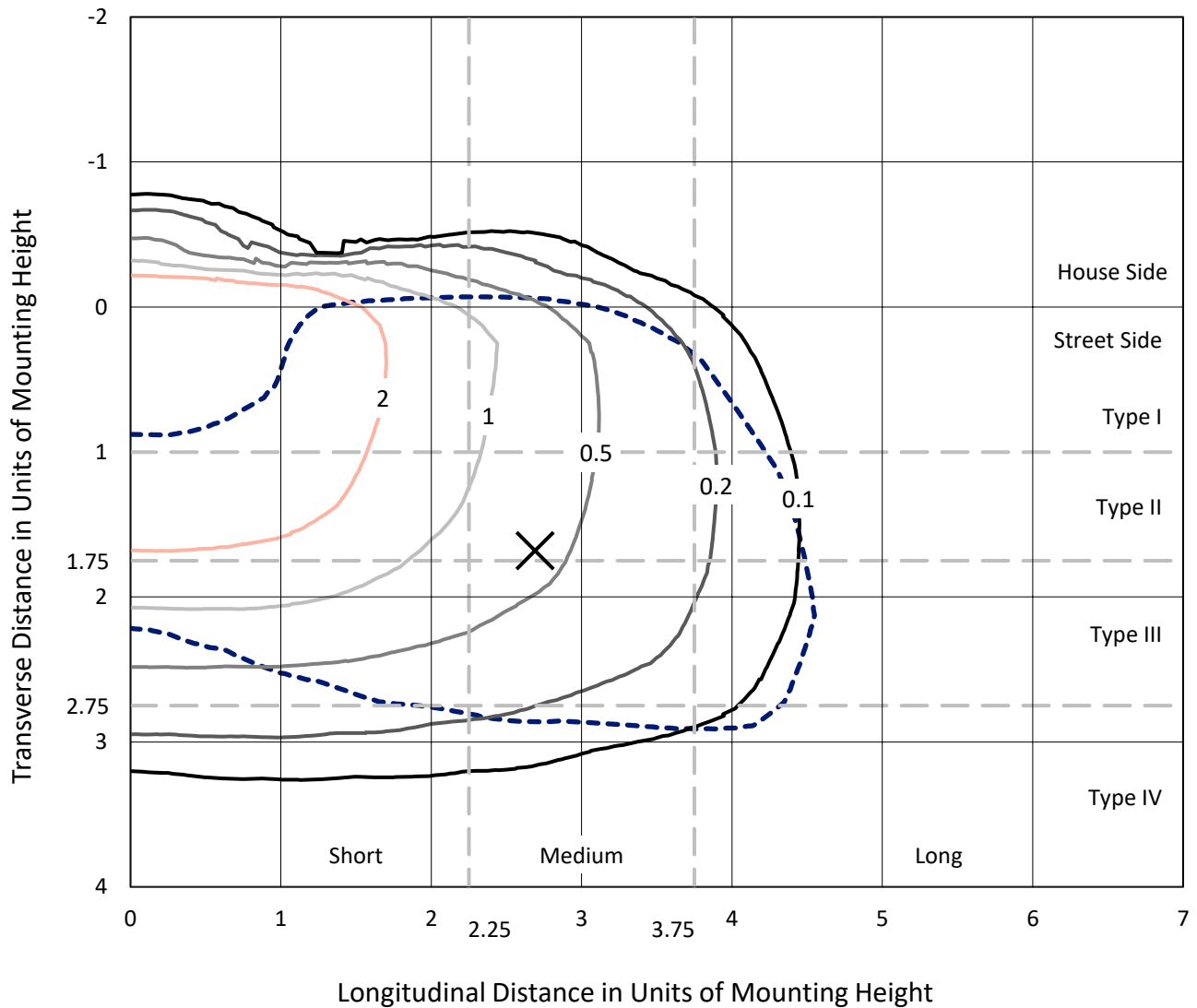
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

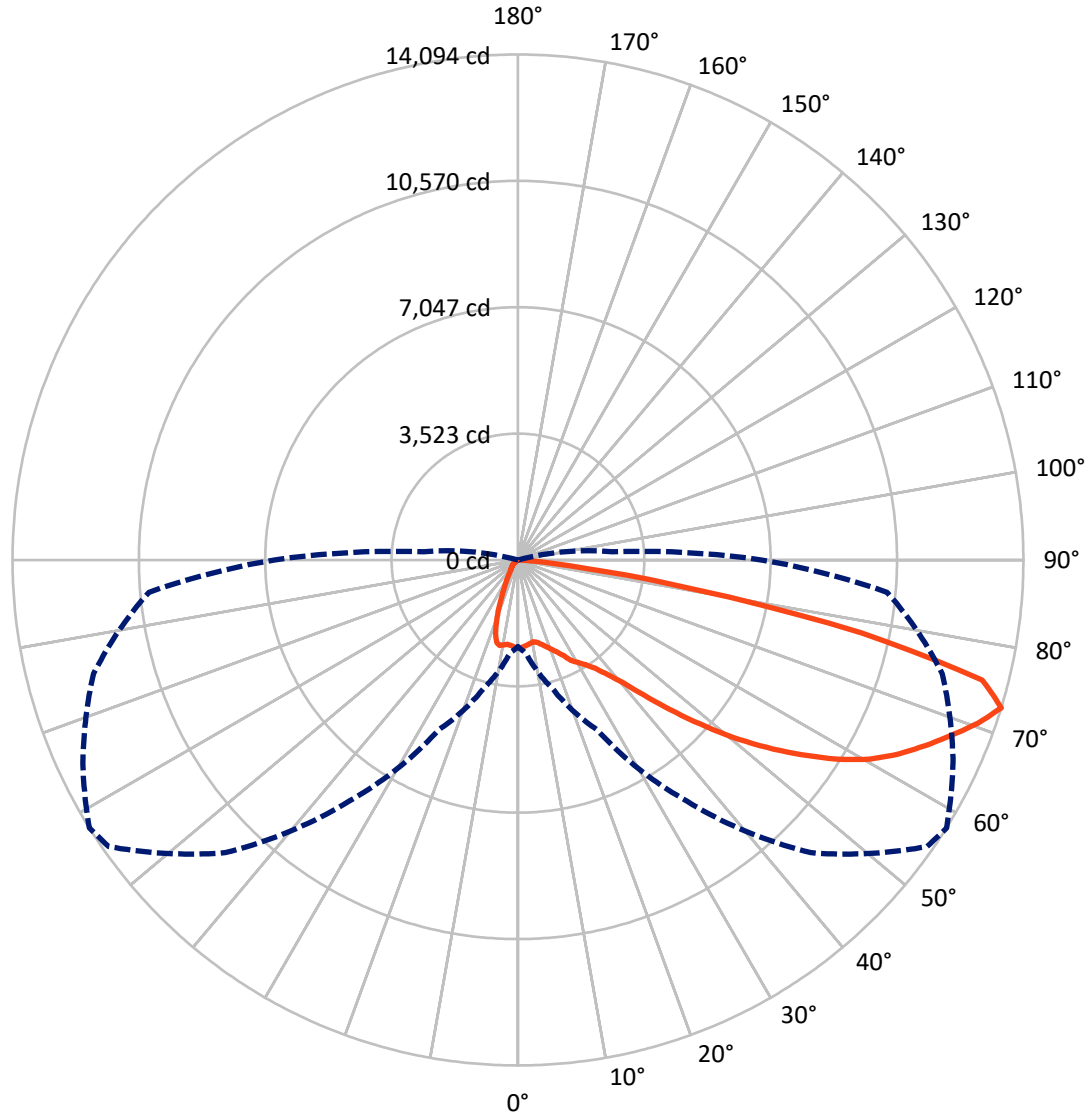
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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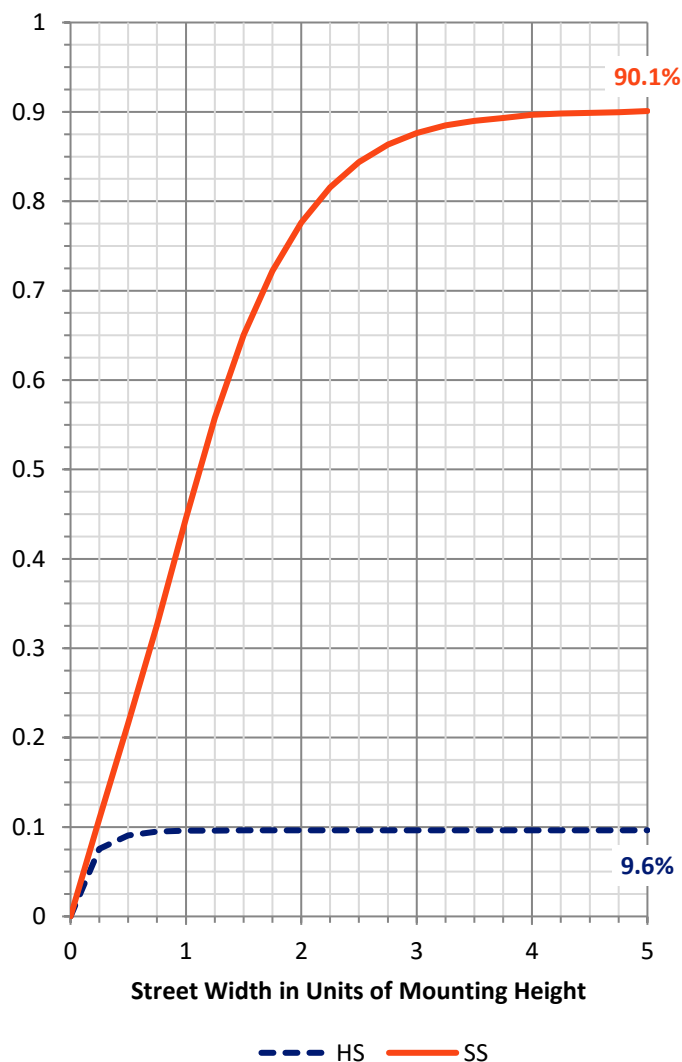
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1992.7	0.0	1992.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	18499.3	0.0	18499.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	20492.0	0.0	20492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	1.1
10°-20°	587.8	2.9
20°-30°	923.3	4.5
30°-40°	1592.4	7.8
40°-50°	3029.6	14.8
50°-60°	4798.0	23.4
60°-70°	5598.7	27.3
70°-80°	3506.5	17.1
80°-90°	230.2	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°	20492.0	100.0
0°-180°	20492.0	100.0

Coefficient of Utilization



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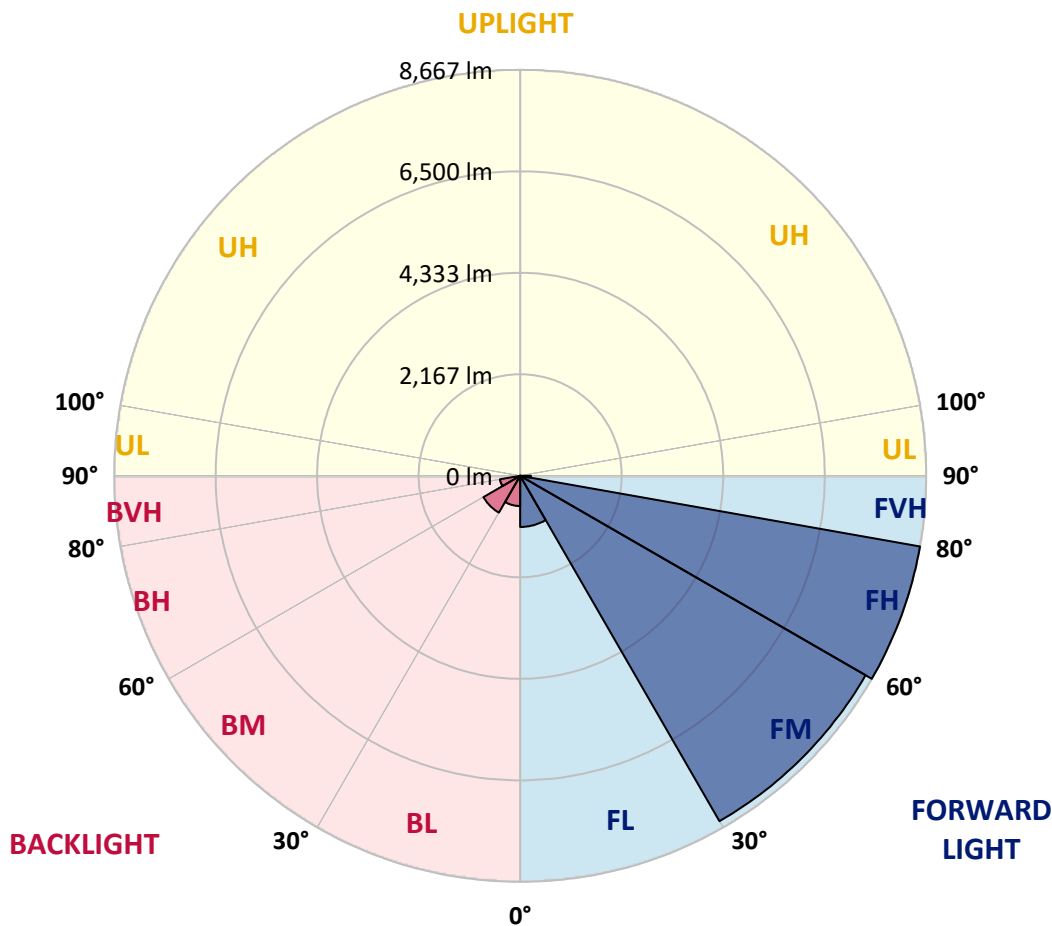
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.5	5.3			
FM (30°-60°)	8513.2	41.5			
FH (60°-80°)	8666.6	42.3			G4/12000
FVH (80°-90°)	227.9	1.1			G3/500
BL (0°-30°)	645.3	3.1	B2/1000		
BM (30°-60°)	906.7	4.4	B1/1000		
BH (60°-80°)	438.5	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	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°	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9
2.5°	2447.9	2436.9	2433.3	2429.6	2433.3	2436.9	2425.9	2436.9	2429.6	2433.3	2440.6
5°	2360.0	2349.0	2345.3	2349.0	2360.0	2378.3	2385.6	2396.6	2396.6	2407.6	2411.3
7.5°	2261.0	2253.7	2250.0	2257.4	2279.4	2319.7	2341.6	2356.3	2371.0	2393.0	2414.9
10°	2206.1	2202.4	2198.7	2209.7	2231.7	2268.4	2297.7	2319.7	2374.6	2436.9	2477.2
12.5°	2169.4	2169.4	2176.7	2198.7	2228.0	2257.4	2327.0	2356.3	2440.6	2535.9	2590.8
15°	2140.1	2140.1	2151.1	2191.4	2231.7	2301.3	2403.9	2436.9	2535.9	2653.1	2726.4
17.5°	2118.1	2125.4	2132.8	2173.1	2250.0	2367.3	2488.2	2535.9	2656.8	2785.1	2865.7
20°	2121.8	2129.1	2132.8	2173.1	2283.0	2444.3	2598.2	2653.1	2792.4	2928.0	3008.6
22.5°	2143.8	2154.8	2158.4	2213.4	2341.6	2524.9	2722.8	2785.1	2935.3	3078.2	3140.5
25°	2235.4	2242.7	2220.7	2268.4	2425.9	2649.5	2884.0	2950.0	3100.2	3232.1	3283.4
27.5°	2546.9	2554.2	2433.3	2378.3	2491.9	2752.1	3081.9	3173.5	3360.4	3448.3	3455.7
30°	3221.1	3228.5	2990.3	2730.1	2649.5	2840.0	3191.8	3320.1	3561.9	3660.9	3616.9
32.5°	4089.6	4082.3	3756.2	3371.4	3023.3	2993.9	3349.4	3485.0	3748.8	3844.1	3811.1
35°	4961.8	4972.8	4694.3	4115.3	3616.9	3283.4	3551.0	3708.5	4027.3	4162.9	4104.3
37.5°	5559.1	5632.4	5511.5	4884.8	4346.2	3818.5	3877.1	4045.7	4445.1	4628.3	4503.7
40°	6402.0	6383.7	6090.5	5628.8	5152.4	4610.0	4404.8	4485.4	4943.5	5189.0	4994.8
42.5°	7534.3	7497.7	6999.3	6548.6	6017.2	5573.8	5156.0	5141.4	5515.2	5801.0	5518.8
45°	8560.4	8505.4	8164.6	7728.5	7145.9	6636.5	6072.2	5943.9	6204.1	6445.9	6116.1
47.5°	9377.6	9286.0	9044.1	8813.3	8670.3	7878.8	7032.3	6838.1	6970.0	7149.5	6684.1
50°	10345.0	10092.2	9740.4	9601.1	9898.0	9286.0	7955.7	7768.9	7761.5	7864.1	7270.5
52.5°	10784.8	10326.7	10128.8	10246.1	10770.1	10594.2	8952.5	8685.0	8578.7	8589.7	7816.5
55°	10253.4	10202.1	10308.4	10674.8	11360.1	11257.5	9909.0	9579.1	9421.6	9223.7	8340.5
57.5°	9648.8	9806.3	10227.8	10927.7	12107.7	11950.1	10850.7	10477.0	10187.5	9733.1	8923.2
60°	9091.8	9253.0	9949.3	10986.3	12518.1	12617.1	11635.0	11279.5	10850.7	10253.4	9564.5
62.5°	8245.2	8369.8	9348.3	10902.0	12338.6	13005.5	12181.0	11913.5	11514.0	10748.1	10301.1
65°	7292.5	7373.1	8340.5	10227.8	11986.8	12961.5	12631.7	12481.5	12093.0	11264.8	11030.3
67.5°	6248.1	6343.3	7149.5	9014.8	11297.8	12756.3	13056.8	13042.1	12598.7	11836.5	11558.0
70°	5046.1	5053.4	5720.4	7475.7	10095.8	12345.9	13584.5	13617.5	13082.5	12265.3	11580.0
72.5°	2414.9	2612.8	3708.5	5218.3	8204.9	11539.7	13929.0	14093.9	13386.6	12250.6	10330.4
75°	553.3	571.7	1081.0	2480.9	4811.6	8857.2	13067.8	13375.6	12646.4	10594.2	7277.8
77.5°	201.6	212.5	304.2	725.6	1850.6	4577.0	9351.9	9802.7	9348.3	6849.0	3441.0
80°	135.6	131.9	157.6	322.5	850.2	1297.3	4782.2	5049.8	4610.0	2338.0	824.5
82.5°	69.6	73.3	109.9	179.6	571.7	450.7	1597.7	1737.0	1429.2	469.1	153.9
85°	33.0	33.0	62.3	113.6	241.9	157.6	355.5	428.8	384.8	205.2	51.3
87.5°	33.0	33.0	58.6	73.3	124.6	66.0	87.9	109.9	102.6	109.9	18.3
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°	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9	2458.9
2.5°	2440.6	2436.9	2433.3	2440.6	2436.9	2444.3	2444.3	2451.6	2451.6	2444.3	2440.6
5°	2407.6	2400.3	2393.0	2393.0	2389.3	2396.6	2418.6	2436.9	2440.6	2429.6	2425.9
7.5°	2411.3	2411.3	2403.9	2389.3	2363.6	2363.6	2363.6	2385.6	2396.6	2389.3	2385.6
10°	2477.2	2480.9	2462.6	2429.6	2385.6	2345.3	2268.4	2154.8	2048.5	2019.2	2008.2
12.5°	2590.8	2594.5	2557.9	2499.2	2407.6	2169.4	1876.3	1605.1	1396.2	1337.6	1326.6
15°	2726.4	2730.1	2664.1	2568.9	2290.3	1737.0	1300.9	993.1	809.9	765.9	762.2
17.5°	2865.7	2858.4	2759.4	2576.2	1942.2	1231.3	791.5	634.0	586.3	575.3	579.0
20°	3001.3	2979.3	2843.7	2440.6	1495.1	806.2	579.0	542.4	531.4	524.0	524.0
22.5°	3125.9	3081.9	2913.3	2173.1	1048.1	579.0	516.7	509.4	494.7	483.7	480.1
25°	3250.5	3188.2	2957.3	1824.9	703.6	505.7	487.4	472.7	454.4	439.7	436.1
27.5°	3400.7	3312.8	2935.3	1385.2	527.7	469.1	454.4	432.4	406.8	384.8	377.4
30°	3543.6	3444.7	2810.7	956.4	450.7	432.4	410.4	377.4	344.5	318.8	311.5
32.5°	3723.2	3609.6	2587.2	626.6	392.1	377.4	355.5	315.2	271.2	241.9	234.5
35°	3979.7	3851.4	2301.3	439.7	344.5	318.8	289.5	245.5	197.9	175.9	172.2
37.5°	4338.8	4166.6	1942.2	355.5	304.2	267.5	223.5	179.6	146.6	128.3	124.6
40°	4778.6	4514.7	1542.8	315.2	271.2	223.5	168.6	128.3	106.3	91.6	91.6
42.5°	5255.0	4840.9	1136.0	289.5	238.2	183.2	124.6	91.6	77.0	69.6	66.0
45°	5746.0	5130.4	765.9	267.5	208.9	139.3	87.9	62.3	51.3	51.3	47.6
47.5°	6255.4	5324.6	494.7	241.9	175.9	102.6	58.6	44.0	36.6	36.6	36.6
50°	6761.1	5427.2	351.8	219.9	142.9	69.6	44.0	33.0	29.3	29.3	29.3
52.5°	7127.6	5361.2	282.2	190.6	109.9	51.3	33.0	25.7	22.0	22.0	22.0
55°	7446.4	5247.6	245.5	164.9	80.6	36.6	25.7	22.0	18.3	18.3	18.3
57.5°	7772.5	5101.1	219.9	139.3	58.6	25.7	18.3	14.7	14.7	14.7	14.7
60°	8069.3	4851.9	190.6	109.9	40.3	18.3	14.7	11.0	11.0	11.0	11.0
62.5°	8358.8	4639.3	164.9	84.3	29.3	14.7	7.3	7.3	3.7	3.7	3.7
65°	8523.8	4353.5	131.9	55.0	18.3	11.0	3.7	3.7	0.0	0.0	0.0
67.5°	8472.4	4012.7	91.6	33.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0
70°	8117.0	3554.6	55.0	18.3	11.0	7.3	3.7	0.0	0.0	0.0	0.0
72.5°	6797.7	2631.1	33.0	14.7	7.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	4540.4	1209.3	18.3	11.0	3.7	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	2077.8	362.8	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	417.8	95.3	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.9	18.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	3.7	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)