

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: P400141

Luminaire Tested: **ARCH-L-PA3-240-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400141
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-PA3-240-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 21814 lumens
Efficiency: N/A
Efficacy: 90.1 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

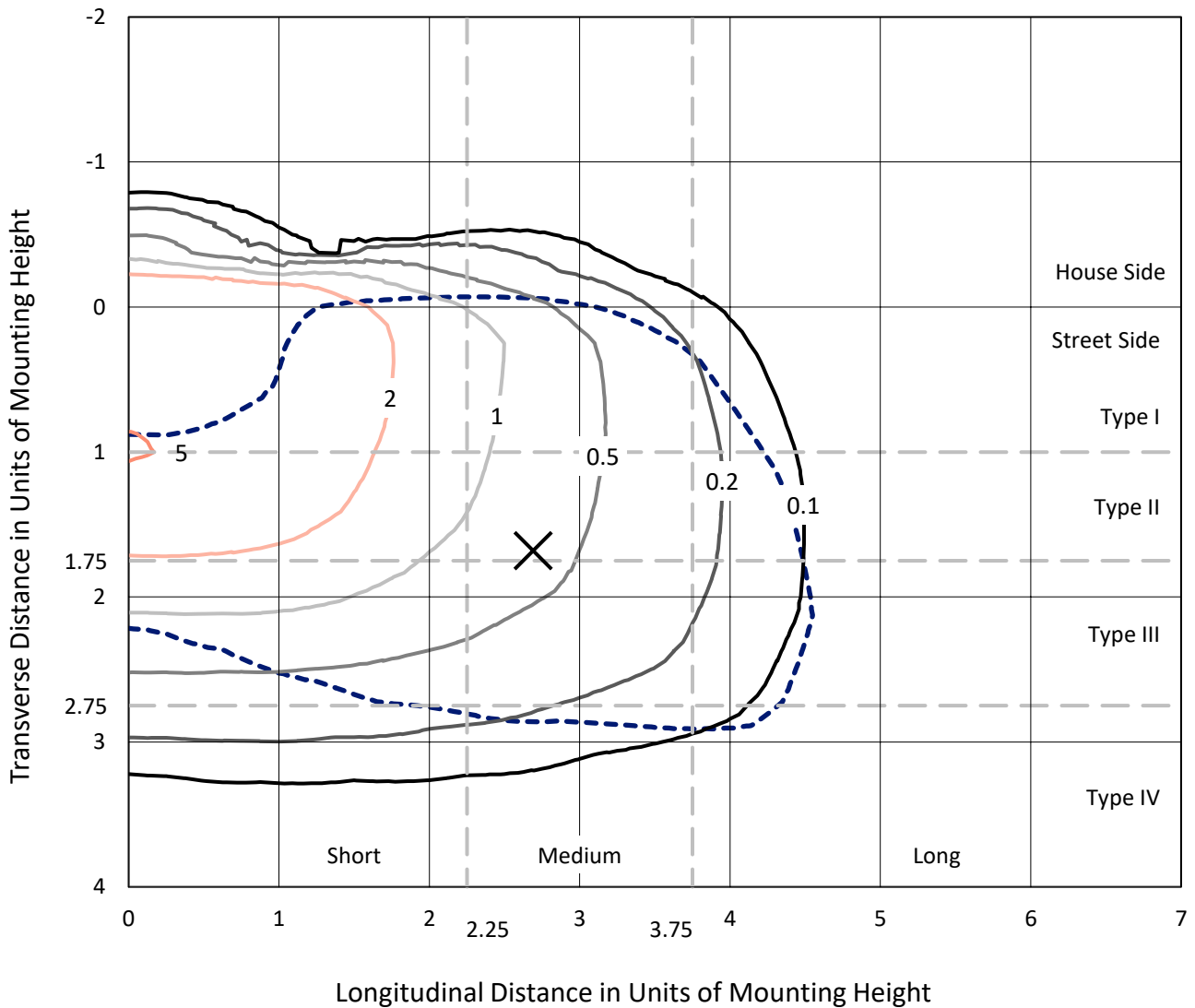
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

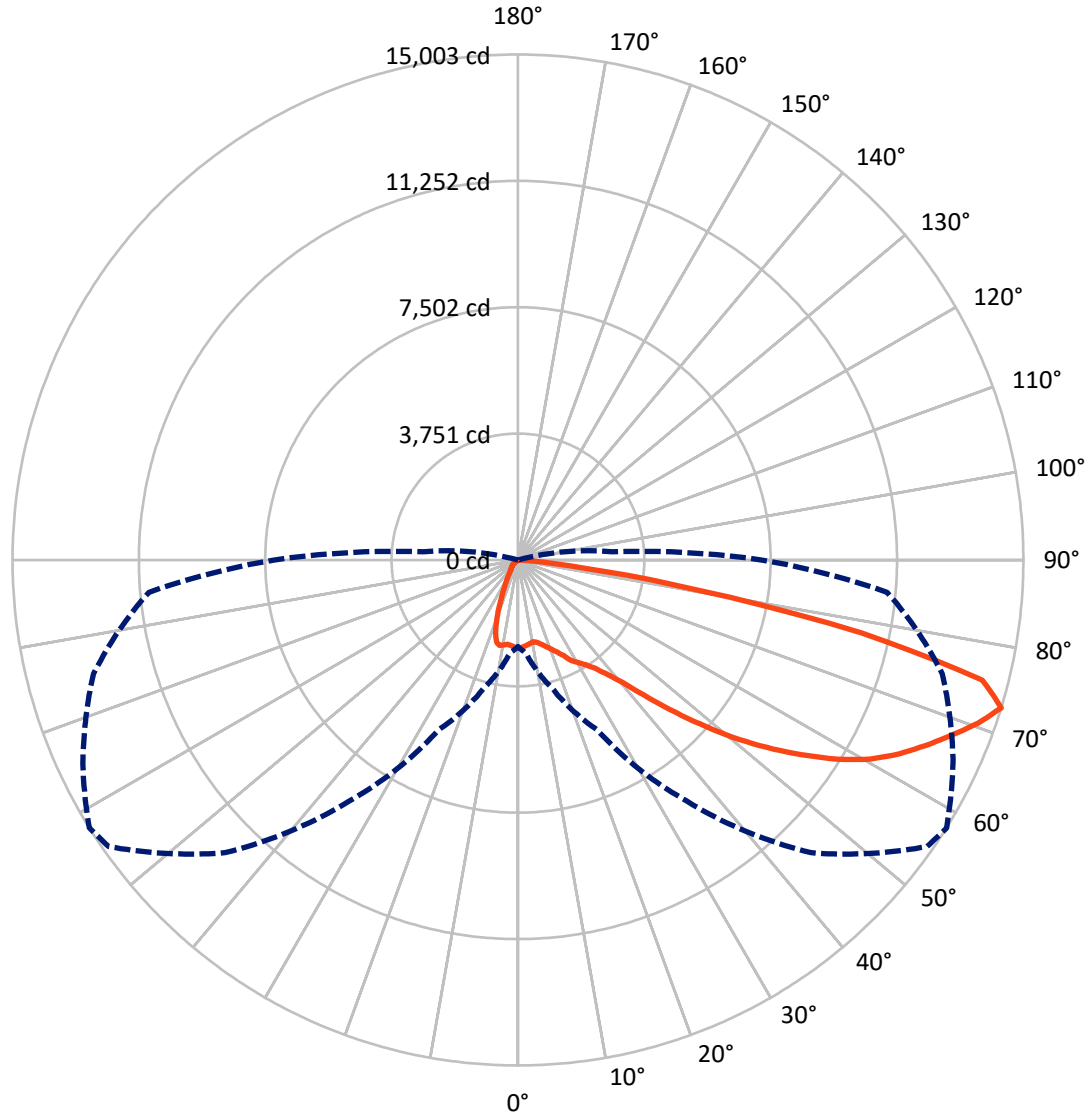
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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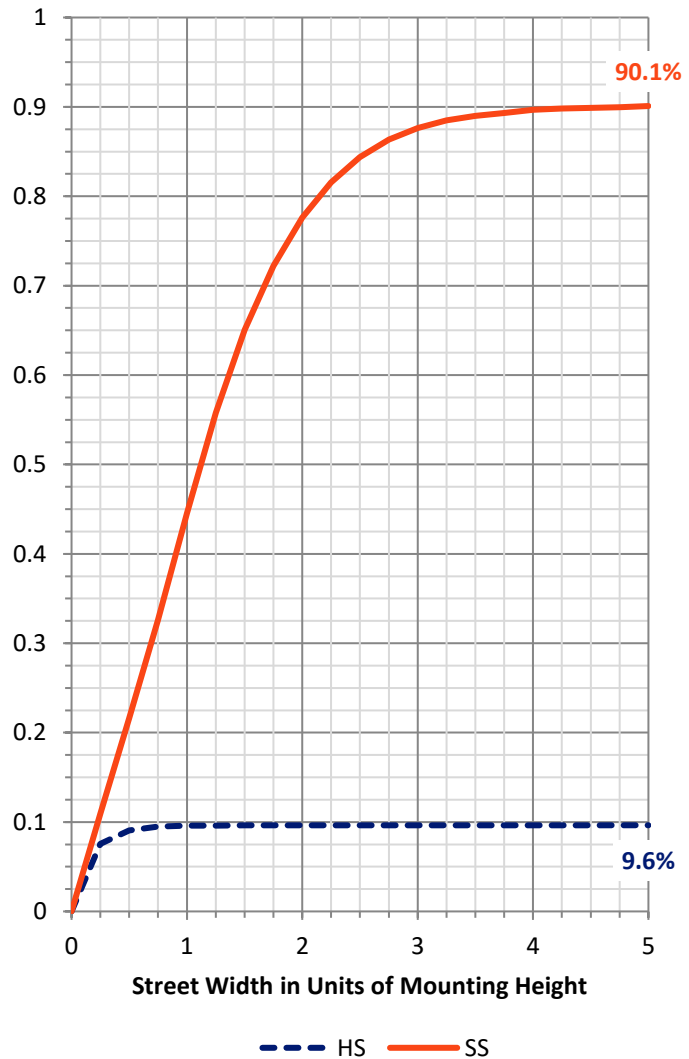
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.2	0.0	2121.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	19692.7	0.0	19692.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	21814.0	0.0	21814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	1.1
10°-20°	625.7	2.9
20°-30°	982.9	4.5
30°-40°	1695.1	7.8
40°-50°	3225.1	14.8
50°-60°	5107.5	23.4
60°-70°	5959.8	27.3
70°-80°	3732.7	17.1
80°-90°	245.0	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°	21814.0	100.0
0°-180°	21814.0	100.0

Coefficient of Utilization



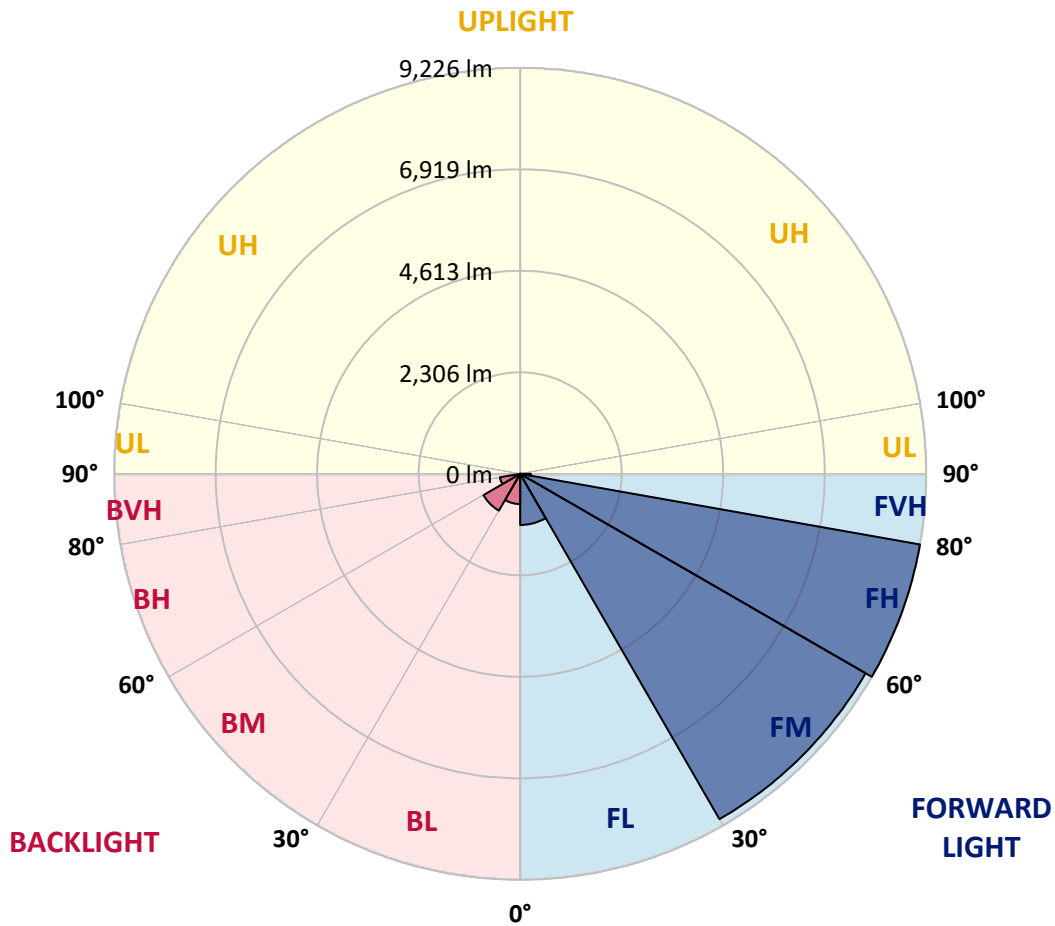
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.9	5.3			
FM (30°-60°)	9062.5	41.5			
FH (60°-80°)	9225.8	42.3			G4/12000
FVH (80°-90°)	242.6	1.1			G3/500
BL (0°-30°)	686.9	3.1	B2/1000		
BM (30°-60°)	965.2	4.4	B1/1000		
BH (60°-80°)	466.8	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5
2.5°	2605.8	2594.1	2590.2	2586.3	2590.2	2594.1	2582.4	2594.1	2586.3	2590.2	2598.0
5°	2512.2	2500.5	2496.6	2500.5	2512.2	2531.7	2539.5	2551.2	2551.2	2562.9	2566.8
7.5°	2406.9	2399.1	2395.2	2403.0	2426.4	2469.3	2492.7	2508.3	2523.9	2547.3	2570.7
10°	2348.4	2344.5	2340.6	2352.3	2375.7	2414.7	2445.9	2469.3	2527.8	2594.1	2637.1
12.5°	2309.4	2309.4	2317.2	2340.6	2371.8	2403.0	2477.1	2508.3	2598.0	2699.5	2758.0
15°	2278.2	2278.2	2289.9	2332.8	2375.7	2449.8	2559.0	2594.1	2699.5	2824.3	2902.3
17.5°	2254.8	2262.6	2270.4	2313.3	2395.2	2520.0	2648.8	2699.5	2828.2	2964.7	3050.6
20°	2258.7	2266.5	2270.4	2313.3	2430.3	2601.9	2765.8	2824.3	2972.5	3116.9	3202.7
22.5°	2282.1	2293.8	2297.7	2356.2	2492.7	2687.8	2898.4	2964.7	3124.7	3276.8	3343.1
25°	2379.6	2387.4	2364.0	2414.7	2582.4	2820.4	3070.1	3140.3	3300.2	3440.7	3495.3
27.5°	2711.2	2719.0	2590.2	2531.7	2652.7	2929.6	3280.7	3378.2	3577.2	3670.8	3678.6
30°	3428.9	3436.7	3183.2	2906.2	2820.4	3023.2	3397.7	3534.3	3791.7	3897.1	3850.3
32.5°	4353.5	4345.7	3998.5	3588.9	3218.3	3187.1	3565.5	3709.8	3990.7	4092.1	4057.0
35°	5281.9	5293.6	4997.1	4380.8	3850.3	3495.3	3780.0	3947.8	4287.2	4431.5	4369.1
37.5°	5917.8	5995.8	5867.1	5200.0	4626.5	4064.8	4127.2	4306.7	4731.9	4926.9	4794.3
40°	6815.0	6795.5	6483.4	5991.9	5484.8	4907.4	4689.0	4774.8	5262.4	5523.8	5317.0
42.5°	8020.4	7981.4	7450.8	6971.0	6405.4	5933.4	5488.7	5473.1	5871.0	6175.2	5874.9
45°	9112.7	9054.1	8691.3	8227.1	7606.9	7064.6	6463.9	6327.4	6604.3	6861.8	6510.7
47.5°	9982.6	9885.0	9627.6	9381.8	9229.7	8387.1	7486.0	7279.2	7419.6	7610.8	7115.4
50°	11012.4	10743.3	10368.8	10220.5	10536.5	9885.0	8469.0	8270.0	8262.2	8371.5	7739.5
52.5°	11480.5	10992.9	10782.3	10907.1	11464.9	11277.7	9530.1	9245.3	9132.2	9143.9	8320.8
55°	10914.9	10860.3	10973.4	11363.5	12093.0	11983.8	10548.2	10197.1	10029.4	9818.7	8878.6
57.5°	10271.2	10439.0	10887.6	11632.7	12888.8	12721.0	11550.8	11152.9	10844.7	10361.0	9498.8
60°	9678.3	9849.9	10591.1	11695.1	13325.7	13431.0	12385.6	12007.2	11550.8	10914.9	10181.5
62.5°	8777.2	8909.8	9951.4	11605.4	13134.5	13844.5	12966.8	12682.0	12256.8	11441.5	10965.6
65°	7762.9	7848.7	8878.6	10887.6	12760.1	13797.7	13446.6	13286.7	12873.2	11991.6	11741.9
67.5°	6651.1	6752.6	7610.8	9596.4	12026.7	13579.3	13899.1	13883.5	13411.5	12600.1	12303.6
70°	5371.6	5379.4	6089.4	7958.0	10747.2	13142.3	14460.9	14496.0	13926.4	13056.5	12327.0
72.5°	2570.7	2781.4	3947.8	5555.0	8734.3	12284.1	14827.6	15003.1	14250.2	13040.9	10996.8
75°	589.0	608.6	1150.8	2641.0	5122.0	9428.6	13910.8	14238.5	13462.2	11277.7	7747.3
77.5°	214.6	226.3	323.8	772.4	1970.0	4872.3	9955.3	10435.1	9951.4	7290.9	3663.0
80°	144.3	140.4	167.7	343.3	905.0	1380.9	5090.8	5375.5	4907.4	2488.8	877.7
82.5°	74.1	78.0	117.0	191.1	608.6	479.8	1700.8	1849.1	1521.4	499.3	163.8
85°	35.1	35.1	66.3	120.9	257.5	167.7	378.4	456.4	409.6	218.5	54.6
87.5°	35.1	35.1	62.4	78.0	132.6	70.2	93.6	117.0	109.2	117.0	19.5
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°	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5	2617.5
2.5°	2598.0	2594.1	2590.2	2598.0	2594.1	2601.9	2601.9	2609.7	2609.7	2601.9	2598.0
5°	2562.9	2555.1	2547.3	2547.3	2543.4	2551.2	2574.6	2594.1	2598.0	2586.3	2582.4
7.5°	2566.8	2566.8	2559.0	2543.4	2516.1	2516.1	2516.1	2539.5	2551.2	2543.4	2539.5
10°	2637.1	2641.0	2621.4	2586.3	2539.5	2496.6	2414.7	2293.8	2180.6	2149.4	2137.7
12.5°	2758.0	2761.9	2722.9	2660.5	2562.9	2309.4	1997.3	1708.6	1486.3	1423.9	1412.1
15°	2902.3	2906.2	2836.0	2734.6	2438.1	1849.1	1384.8	1057.2	862.1	815.3	811.4
17.5°	3050.6	3042.8	2937.4	2742.4	2067.5	1310.7	842.6	674.9	624.2	612.5	616.4
20°	3194.9	3171.5	3027.1	2598.0	1591.6	858.2	616.4	577.3	565.6	557.8	557.8
22.5°	3327.5	3280.7	3101.3	2313.3	1115.7	616.4	550.0	542.2	526.6	514.9	511.0
25°	3460.2	3393.8	3148.1	1942.7	749.0	538.3	518.8	503.2	483.7	468.1	464.2
27.5°	3620.1	3526.5	3124.7	1474.6	561.7	499.3	483.7	460.3	433.0	409.6	401.8
30°	3772.2	3666.9	2992.0	1018.2	479.8	460.3	436.9	401.8	366.7	339.4	331.6
32.5°	3963.4	3842.4	2754.1	667.1	417.4	401.8	378.4	335.5	288.7	257.5	249.7
35°	4236.4	4099.9	2449.8	468.1	366.7	339.4	308.2	261.4	210.7	187.2	183.3
37.5°	4618.7	4435.4	2067.5	378.4	323.8	284.8	238.0	191.1	156.0	136.5	132.6
40°	5086.9	4806.0	1642.3	335.5	288.7	238.0	179.4	136.5	113.1	97.5	97.5
42.5°	5594.0	5153.2	1209.3	308.2	253.6	195.0	132.6	97.5	81.9	74.1	70.2
45°	6116.7	5461.4	815.3	284.8	222.4	148.2	93.6	66.3	54.6	54.6	50.7
47.5°	6658.9	5668.1	526.6	257.5	187.2	109.2	62.4	46.8	39.0	39.0	39.0
50°	7197.3	5777.3	374.5	234.1	152.1	74.1	46.8	35.1	31.2	31.2	31.2
52.5°	7587.4	5707.1	300.4	202.9	117.0	54.6	35.1	27.3	23.4	23.4	23.4
55°	7926.8	5586.2	261.4	175.5	85.8	39.0	27.3	23.4	19.5	19.5	19.5
57.5°	8273.9	5430.1	234.1	148.2	62.4	27.3	19.5	15.6	15.6	15.6	15.6
60°	8589.9	5164.9	202.9	117.0	42.9	19.5	15.6	11.7	11.7	11.7	11.7
62.5°	8898.1	4938.6	175.5	89.7	31.2	15.6	7.8	7.8	3.9	3.9	3.9
65°	9073.6	4634.3	140.4	58.5	19.5	11.7	3.9	3.9	0.0	0.0	0.0
67.5°	9019.0	4271.6	97.5	35.1	11.7	7.8	3.9	0.0	0.0	0.0	0.0
70°	8640.6	3783.9	58.5	19.5	11.7	7.8	3.9	0.0	0.0	0.0	0.0
72.5°	7236.3	2800.9	35.1	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
75°	4833.3	1287.3	19.5	11.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	2211.8	386.2	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	444.7	101.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.6	19.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.5	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)