

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: P400222

Luminaire Tested: **ARCH-L-PA3-250-740-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400222
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-PA3-250-740-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 24503 lumens
Efficiency: N/A
Efficacy: 97.6 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

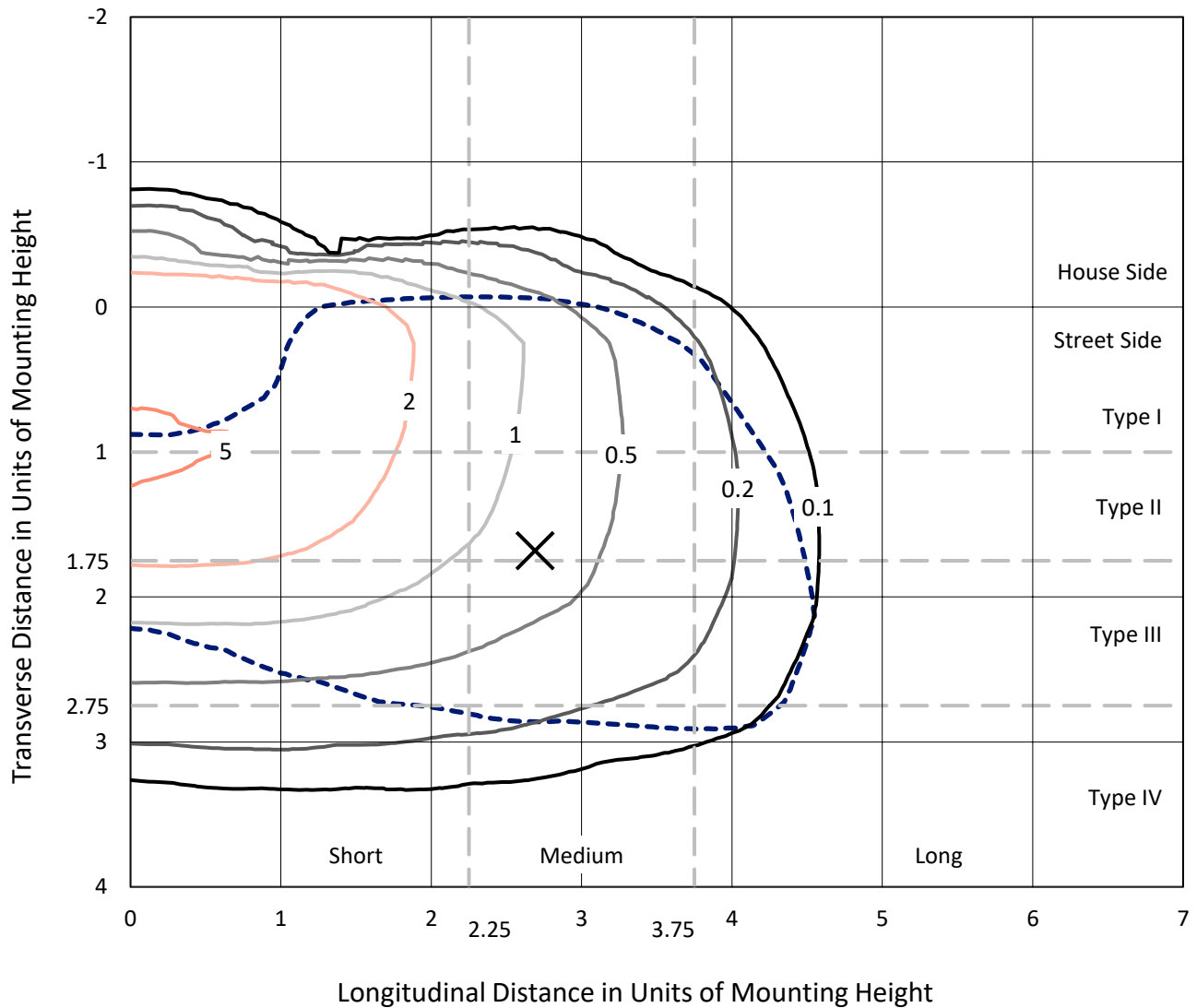
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

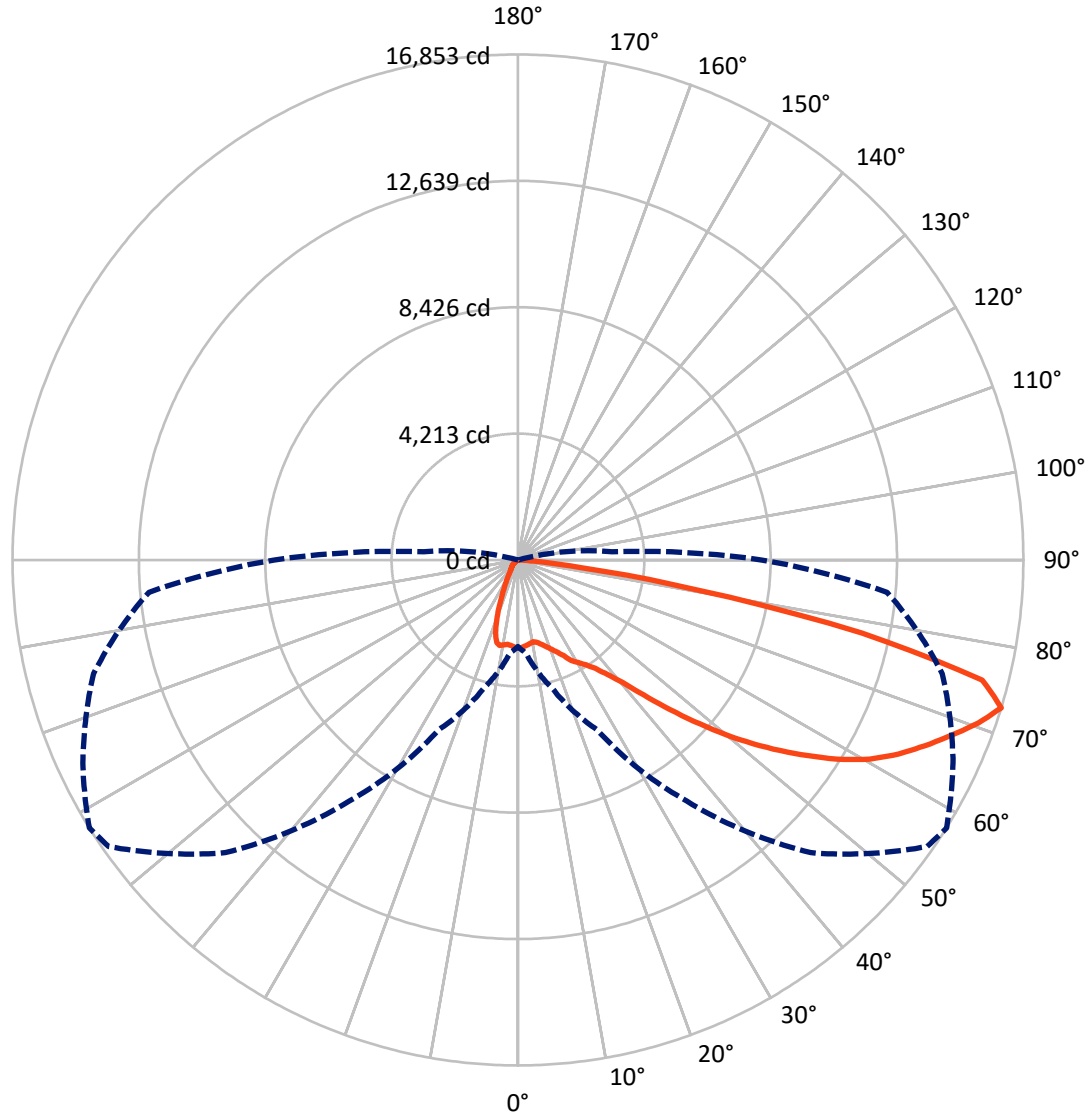
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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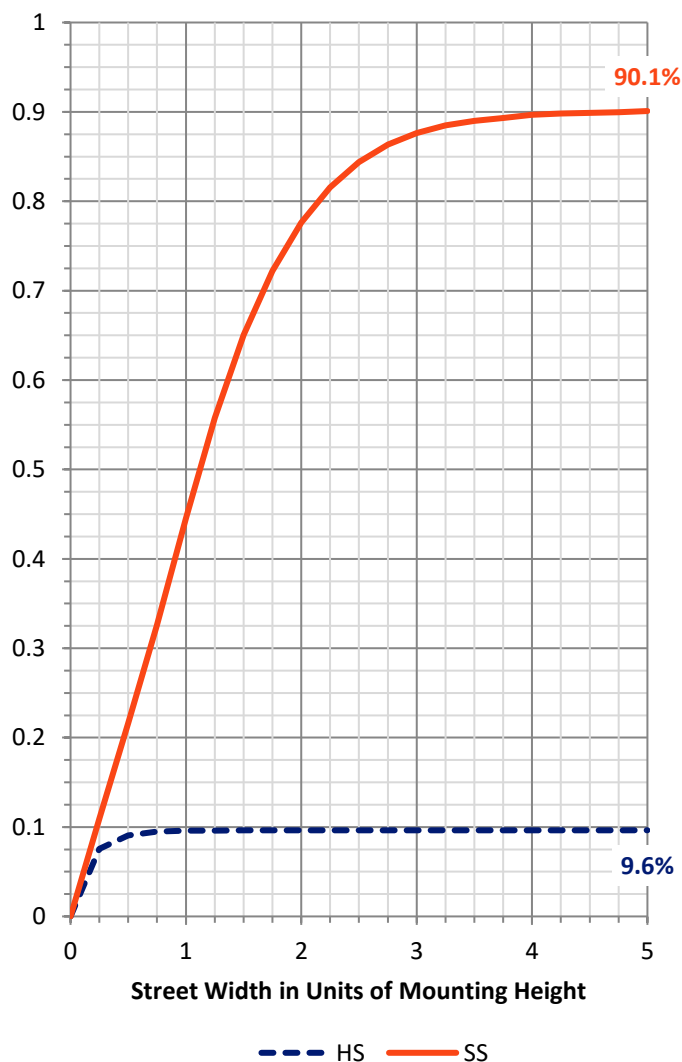
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2382.7	0.0	2382.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	22120.3	0.0	22120.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	24503.0	0.0	24503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	1.1
10°-20°	702.8	2.9
20°-30°	1104.1	4.5
30°-40°	1904.1	7.8
40°-50°	3622.6	14.8
50°-60°	5737.1	23.4
60°-70°	6694.5	27.3
70°-80°	4192.8	17.1
80°-90°	275.2	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°	24503.0	100.0
0°-180°	24503.0	100.0

Coefficient of Utilization



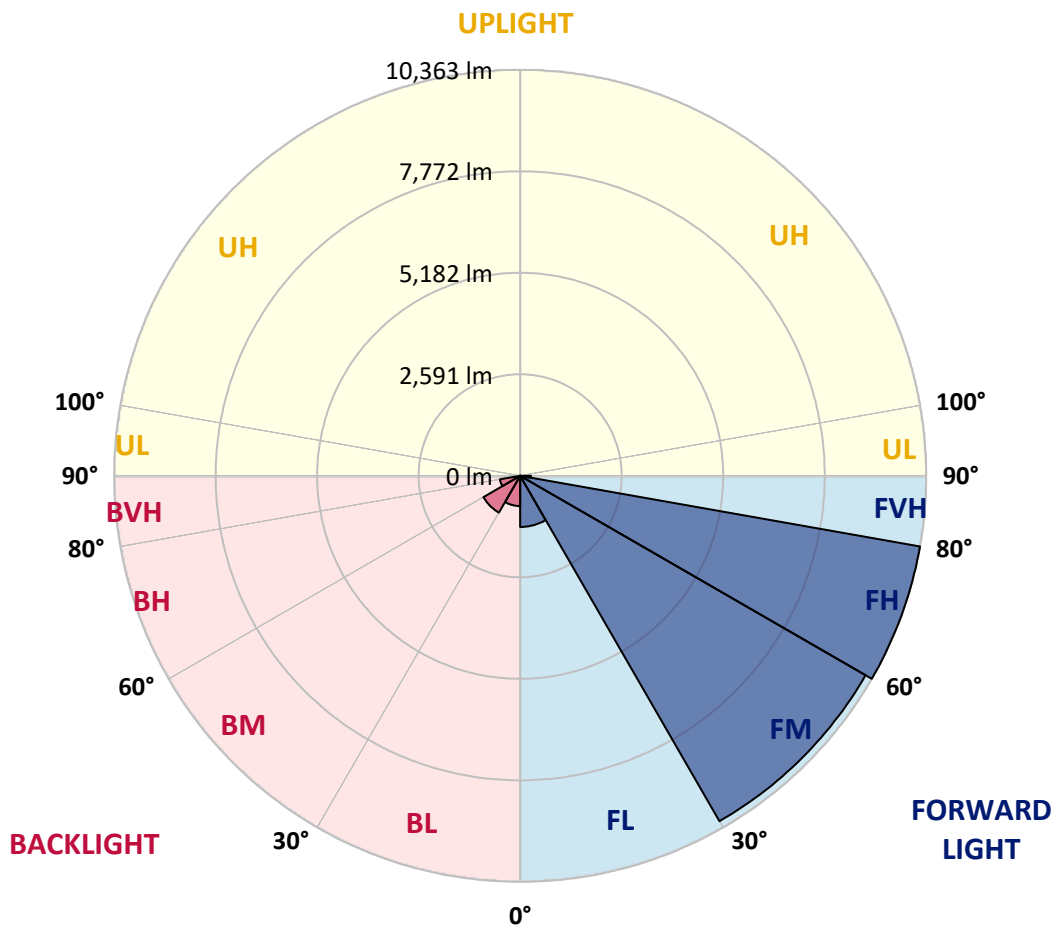
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.1	5.3			
FM (30°-60°)	10179.6	41.5			
FH (60°-80°)	10363.0	42.3			G4/12000
FVH (80°-90°)	272.6	1.1			G3/500
BL (0°-30°)	771.6	3.1	B2/1000		
BM (30°-60°)	1084.2	4.4	B2/2500		
BH (60°-80°)	524.3	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.7	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°	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2
2.5°	2927.1	2913.9	2909.5	2905.2	2909.5	2913.9	2900.8	2913.9	2905.2	2909.5	2918.3
5°	2821.9	2808.8	2804.4	2808.8	2821.9	2843.8	2852.6	2865.7	2865.7	2878.9	2883.2
7.5°	2703.6	2694.8	2690.4	2699.2	2725.5	2773.7	2800.0	2817.5	2835.0	2861.3	2887.6
10°	2637.9	2633.5	2629.1	2642.2	2668.5	2712.4	2747.4	2773.7	2839.4	2913.9	2962.1
12.5°	2594.0	2594.0	2602.8	2629.1	2664.2	2699.2	2782.5	2817.5	2918.3	3032.2	3098.0
15°	2559.0	2559.0	2572.1	2620.3	2668.5	2751.8	2874.5	2913.9	3032.2	3172.4	3260.1
17.5°	2532.7	2541.5	2550.2	2598.4	2690.4	2830.7	2975.3	3032.2	3176.8	3330.2	3426.6
20°	2537.1	2545.8	2550.2	2598.4	2729.9	2922.7	3106.7	3172.4	3339.0	3501.1	3597.5
22.5°	2563.4	2576.5	2580.9	2646.6	2800.0	3019.1	3255.7	3330.2	3509.8	3680.7	3755.2
25°	2672.9	2681.7	2655.4	2712.4	2900.8	3168.1	3448.5	3527.4	3707.0	3864.8	3926.1
27.5°	3045.4	3054.1	2909.5	2843.8	2979.6	3290.8	3685.1	3794.7	4018.1	4123.3	4132.1
30°	3851.6	3860.4	3575.6	3264.5	3168.1	3395.9	3816.6	3969.9	4259.1	4377.5	4324.9
32.5°	4890.1	4881.4	4491.4	4031.3	3615.0	3580.0	4005.0	4167.1	4482.6	4596.5	4557.1
35°	5933.0	5946.1	5613.1	4920.8	4324.9	3926.1	4246.0	4434.4	4815.6	4977.8	4907.7
37.5°	6647.2	6734.9	6590.3	5841.0	5196.9	4565.9	4636.0	4837.5	5315.2	5534.3	5385.3
40°	7655.1	7633.2	7282.6	6730.5	6160.9	5512.3	5267.0	5363.4	5911.1	6204.7	5972.4
42.5°	9009.1	8965.2	8369.3	7830.3	7195.0	6664.8	6165.2	6147.7	6594.7	6936.4	6599.0
45°	10236.0	10170.2	9762.7	9241.3	8544.6	7935.5	7260.7	7107.3	7418.4	7707.6	7313.3
47.5°	11213.1	11103.6	10814.4	10538.3	10367.4	9420.9	8408.7	8176.5	8334.2	8549.0	7992.5
50°	12369.9	12067.6	11646.9	11480.4	11835.3	11103.6	9513.0	9289.5	9280.7	9403.4	8693.6
52.5°	12895.7	12348.0	12111.4	12251.6	12878.2	12667.9	10704.8	10384.9	10257.9	10271.0	9346.5
55°	12260.4	12199.0	12326.1	12764.3	13583.7	13461.0	11848.5	11454.1	11265.7	11029.1	9973.1
57.5°	11537.4	11725.8	12229.7	13066.6	14477.6	14289.2	12974.6	12527.7	12181.5	11638.2	10669.8
60°	10871.3	11064.1	11896.7	13136.7	14968.3	15086.7	13912.3	13487.3	12974.6	12260.4	11436.6
62.5°	9859.1	10008.1	11178.1	13036.0	14753.6	15551.1	14565.2	14245.3	13767.7	12851.9	12317.3
65°	8719.8	8816.3	9973.1	12229.7	14333.0	15498.5	15104.2	14924.5	14460.1	13469.8	13189.3
67.5°	7471.0	7585.0	8549.0	10779.3	13509.2	15253.2	15612.5	15594.9	15064.7	14153.3	13820.3
70°	6033.8	6042.5	6840.0	8938.9	12072.0	14762.4	16243.5	16282.9	15643.1	14666.0	13846.6
72.5°	2887.6	3124.2	4434.4	6239.7	9810.9	13798.4	16655.4	16852.5	16006.8	14648.5	12352.4
75°	661.7	683.6	1292.6	2966.5	5753.3	10590.9	15625.6	15993.7	15121.7	12667.9	8702.3
77.5°	241.0	254.1	363.7	867.6	2212.8	5472.9	11182.4	11721.4	11178.1	8189.6	4114.5
80°	162.1	157.7	188.4	385.6	1016.6	1551.2	5718.3	6038.2	5512.3	2795.6	985.9
82.5°	83.3	87.6	131.5	214.7	683.6	539.0	1910.5	2077.0	1708.9	560.9	184.0
85°	39.4	39.4	74.5	135.8	289.2	188.4	425.0	512.7	460.1	245.4	61.3
87.5°	39.4	39.4	70.1	87.6	149.0	78.9	105.2	131.5	122.7	131.5	21.9
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°	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2	2940.2
2.5°	2918.3	2913.9	2909.5	2918.3	2913.9	2922.7	2922.7	2931.4	2931.4	2922.7	2918.3
5°	2878.9	2870.1	2861.3	2861.3	2857.0	2865.7	2892.0	2913.9	2918.3	2905.2	2900.8
7.5°	2883.2	2883.2	2874.5	2857.0	2826.3	2826.3	2826.3	2852.6	2865.7	2857.0	2852.6
10°	2962.1	2966.5	2944.6	2905.2	2852.6	2804.4	2712.4	2576.5	2449.4	2414.4	2401.2
12.5°	3098.0	3102.3	3058.5	2988.4	2878.9	2594.0	2243.5	1919.2	1669.5	1599.4	1586.2
15°	3260.1	3264.5	3185.6	3071.7	2738.6	2077.0	1555.6	1187.5	968.4	915.8	911.4
17.5°	3426.6	3417.8	3299.5	3080.4	2322.4	1472.3	946.5	758.1	701.1	687.9	692.3
20°	3588.7	3562.4	3400.3	2918.3	1787.8	964.0	692.3	648.5	635.4	626.6	626.6
22.5°	3737.7	3685.1	3483.6	2598.4	1253.2	692.3	617.8	609.1	591.5	578.4	574.0
25°	3886.7	3812.2	3536.1	2182.2	841.3	604.7	582.8	565.3	543.3	525.8	521.4
27.5°	4066.3	3961.2	3509.8	1656.3	631.0	560.9	543.3	517.1	486.4	460.1	451.3
30°	4237.2	4118.9	3360.9	1143.7	539.0	517.1	490.8	451.3	411.9	381.2	372.5
32.5°	4451.9	4316.1	3093.6	749.3	468.9	451.3	425.0	376.8	324.3	289.2	280.4
35°	4758.7	4605.3	2751.8	525.8	411.9	381.2	346.2	293.6	236.6	210.3	205.9
37.5°	5188.1	4982.1	2322.4	425.0	363.7	319.9	267.3	214.7	175.3	153.4	149.0
40°	5713.9	5398.4	1844.8	376.8	324.3	267.3	201.6	153.4	127.1	109.5	109.5
42.5°	6283.6	5788.4	1358.4	346.2	284.8	219.1	149.0	109.5	92.0	83.3	78.9
45°	6870.7	6134.6	915.8	319.9	249.8	166.5	105.2	74.5	61.3	61.3	57.0
47.5°	7479.8	6366.8	591.5	289.2	210.3	122.7	70.1	52.6	43.8	43.8	43.8
50°	8084.5	6489.5	420.7	262.9	170.9	83.3	52.6	39.4	35.1	35.1	35.1
52.5°	8522.7	6410.6	337.4	227.9	131.5	61.3	39.4	30.7	26.3	26.3	26.3
55°	8903.9	6274.8	293.6	197.2	96.4	43.8	30.7	26.3	21.9	21.9	21.9
57.5°	9293.9	6099.5	262.9	166.5	70.1	30.7	21.9	17.5	17.5	17.5	17.5
60°	9648.8	5801.5	227.9	131.5	48.2	21.9	17.5	13.1	13.1	13.1	13.1
62.5°	9995.0	5547.4	197.2	100.8	35.1	17.5	8.8	8.8	4.4	4.4	4.4
65°	10192.1	5205.6	157.7	65.7	21.9	13.1	4.4	4.4	0.0	0.0	0.0
67.5°	10130.8	4798.1	109.5	39.4	13.1	8.8	4.4	0.0	0.0	0.0	0.0
70°	9705.8	4250.4	65.7	21.9	13.1	8.8	4.4	0.0	0.0	0.0	0.0
72.5°	8128.3	3146.2	39.4	17.5	8.8	4.4	0.0	0.0	0.0	0.0	0.0
75°	5429.1	1446.0	21.9	13.1	4.4	4.4	0.0	0.0	0.0	0.0	0.0
77.5°	2484.5	433.8	13.1	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	499.5	113.9	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	105.2	21.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	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)