

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: P400213

Luminaire Tested: **ARCH-L-PA3-250-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400213
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-PA3-250-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 22315 lumens
Efficiency: N/A
Efficacy: 88.9 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

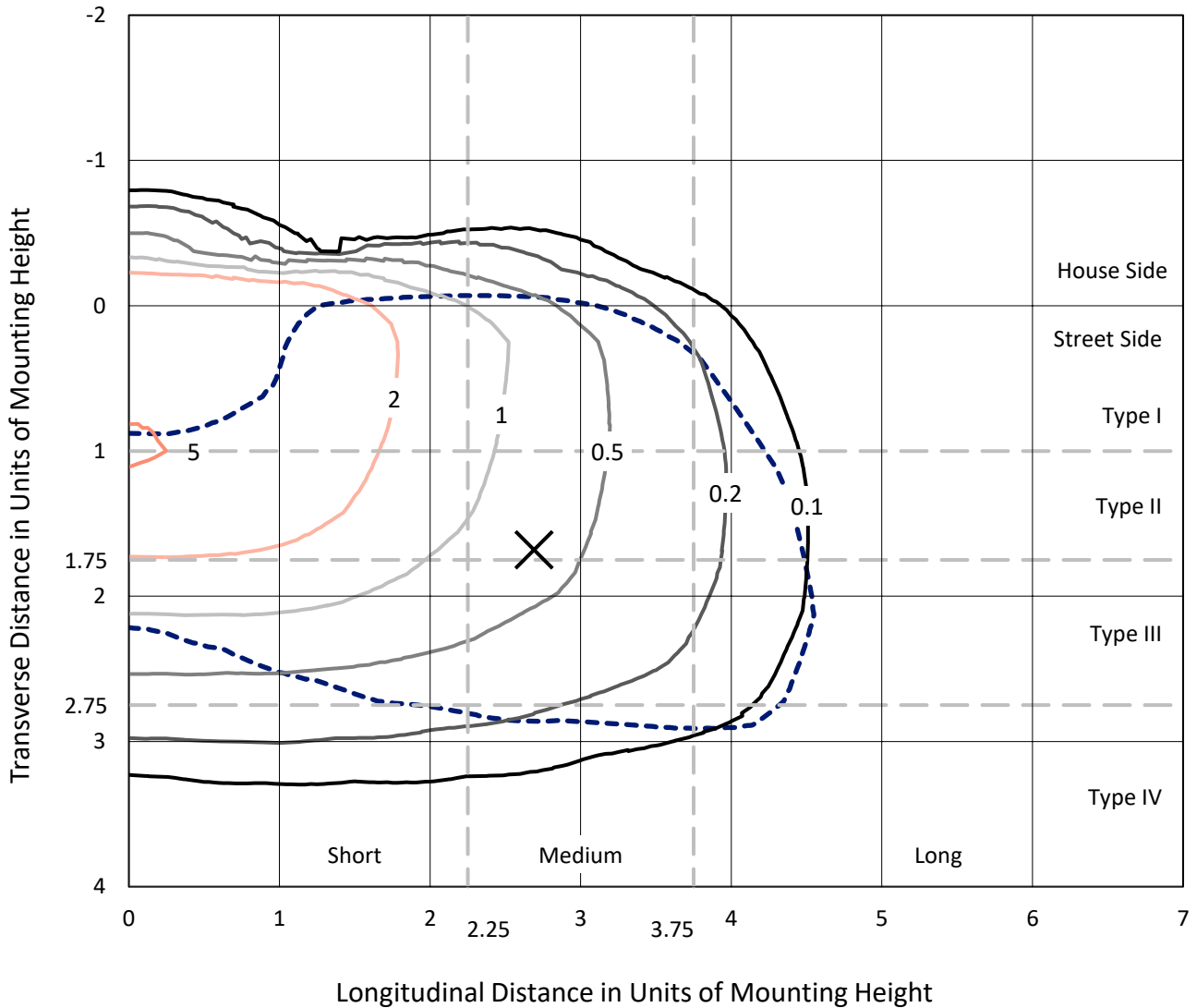
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

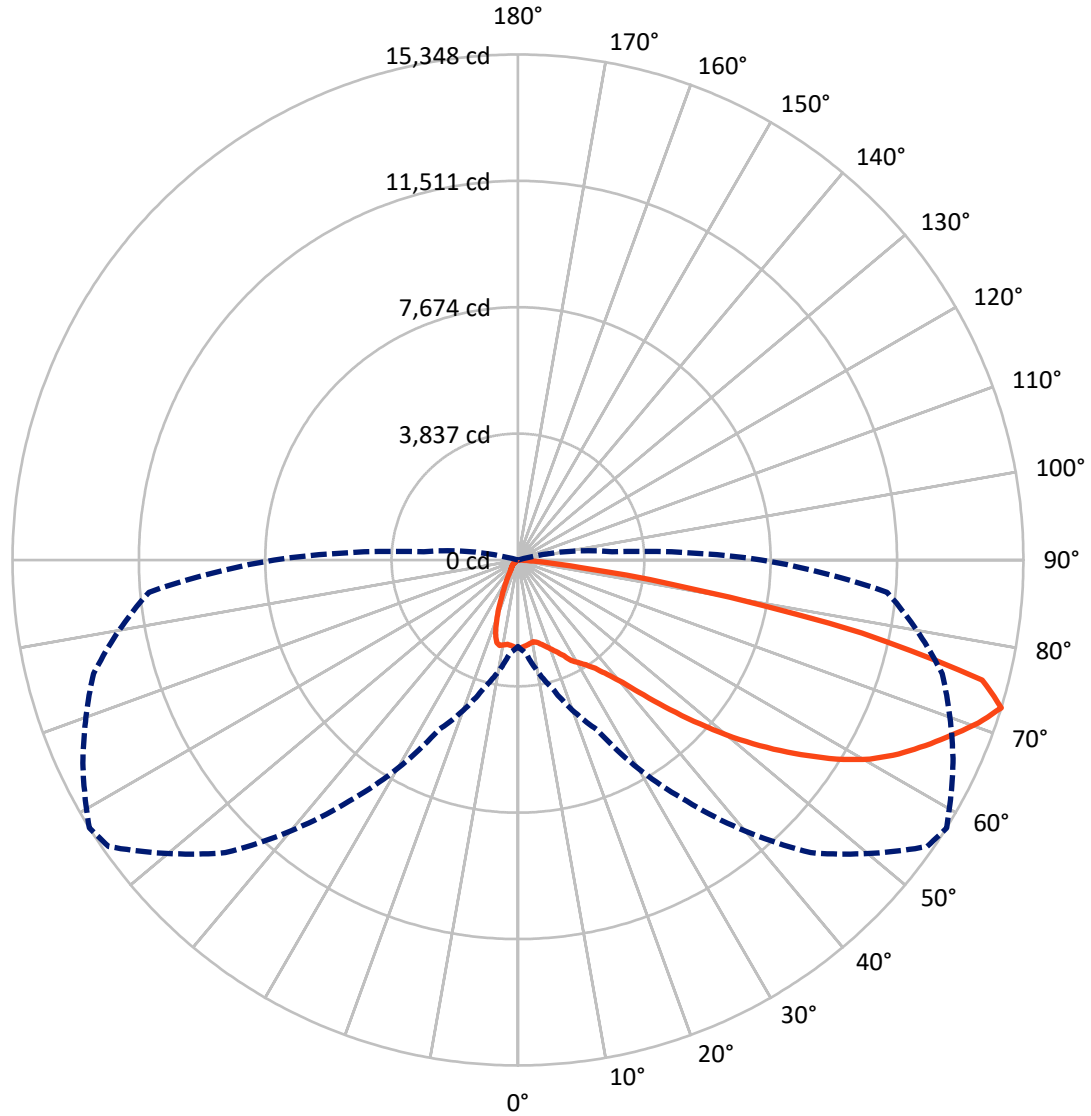
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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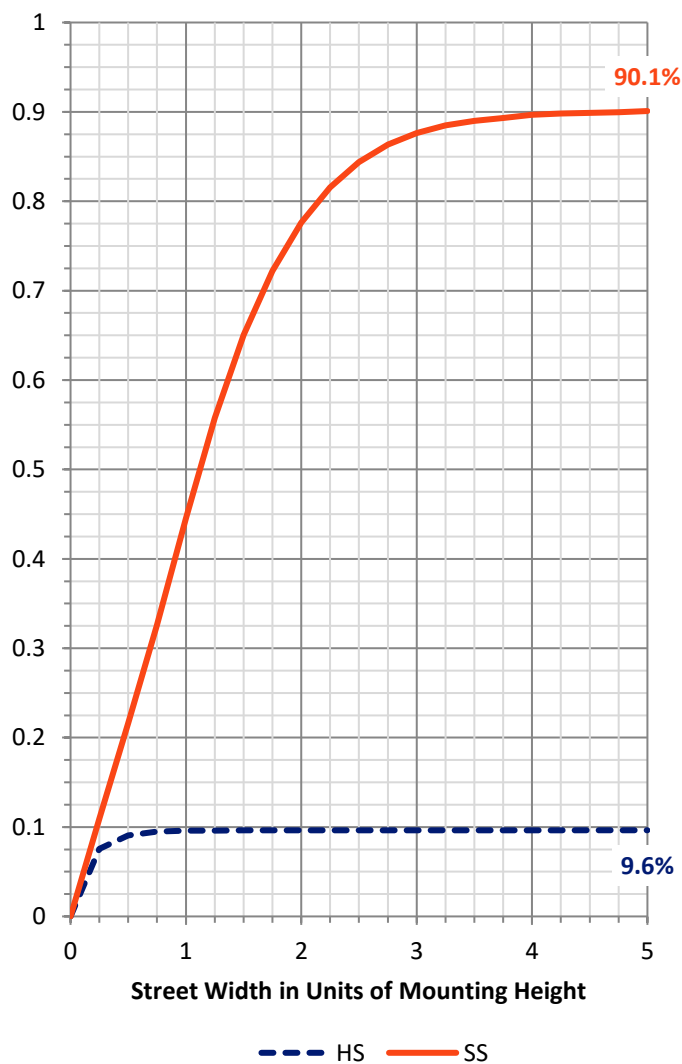
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.0	0.0	2170.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	20145.0	0.0	20145.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	22315.0	0.0	22315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.8	1.1
10°-20°	640.0	2.9
20°-30°	1005.5	4.5
30°-40°	1734.0	7.8
40°-50°	3299.1	14.8
50°-60°	5224.8	23.4
60°-70°	6096.7	27.3
70°-80°	3818.4	17.1
80°-90°	250.6	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°	22315.0	100.0
0°-180°	22315.0	100.0

Coefficient of Utilization

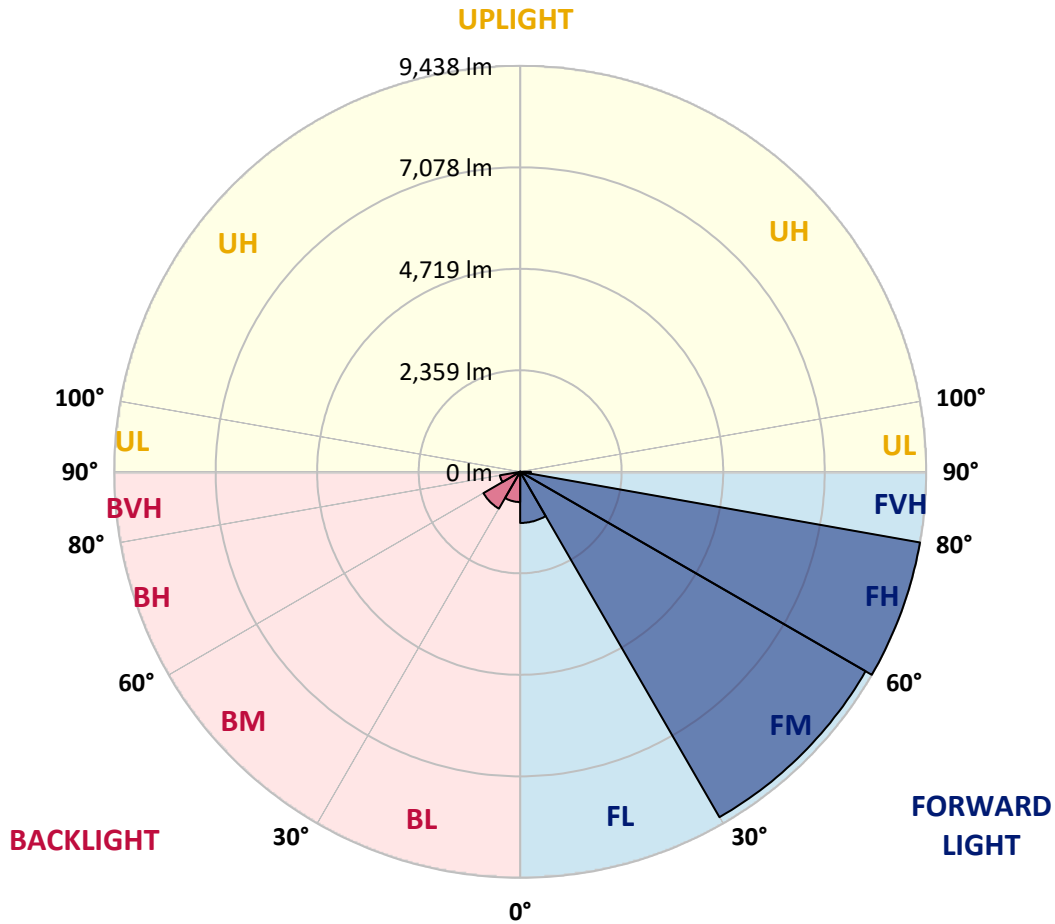


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.6	5.3			
FM (30°-60°)	9270.6	41.5			
FH (60°-80°)	9437.6	42.3			G4/12000
FVH (80°-90°)	248.2	1.1			G3/500
BL (0°-30°)	702.7	3.1	B2/1000		
BM (30°-60°)	987.4	4.4	B1/1000		
BH (60°-80°)	477.5	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°	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7
2.5°	2665.7	2653.7	2649.7	2645.7	2649.7	2653.7	2641.7	2653.7	2645.7	2649.7	2657.7
5°	2569.9	2557.9	2554.0	2557.9	2569.9	2589.9	2597.9	2609.8	2609.8	2621.8	2625.8
7.5°	2462.2	2454.2	2450.2	2458.2	2482.1	2526.0	2550.0	2565.9	2581.9	2605.8	2629.8
10°	2402.3	2398.3	2394.3	2406.3	2430.2	2470.2	2502.1	2526.0	2585.9	2653.7	2697.6
12.5°	2362.4	2362.4	2370.4	2394.3	2426.3	2458.2	2534.0	2565.9	2657.7	2761.5	2821.3
15°	2330.5	2330.5	2342.5	2386.4	2430.2	2506.1	2617.8	2653.7	2761.5	2889.2	2969.0
17.5°	2306.5	2314.5	2322.5	2366.4	2450.2	2577.9	2709.6	2761.5	2893.2	3032.8	3120.6
20°	2310.5	2318.5	2322.5	2366.4	2486.1	2661.7	2829.3	2889.2	3040.8	3188.5	3276.2
22.5°	2334.5	2346.4	2350.4	2410.3	2550.0	2749.5	2965.0	3032.8	3196.4	3352.1	3419.9
25°	2434.2	2442.2	2418.3	2470.2	2641.7	2885.2	3140.6	3212.4	3376.0	3519.7	3575.5
27.5°	2773.4	2781.4	2649.7	2589.9	2713.6	2996.9	3356.1	3455.8	3659.3	3755.1	3763.1
30°	3507.7	3515.7	3256.3	2973.0	2885.2	3092.7	3475.8	3615.4	3878.8	3986.6	3938.7
32.5°	4453.5	4445.5	4090.3	3671.3	3292.2	3260.3	3647.4	3795.0	4082.3	4186.1	4150.2
35°	5403.2	5415.2	5111.9	4481.4	3938.7	3575.5	3866.9	4038.4	4385.6	4533.3	4469.4
37.5°	6053.7	6133.5	6001.8	5319.4	4732.8	4158.2	4222.0	4405.6	4840.5	5040.1	4904.4
40°	6971.5	6951.6	6632.3	6129.5	5610.7	5020.1	4796.6	4884.4	5383.3	5650.6	5439.1
42.5°	8204.6	8164.7	7622.0	7131.1	6552.5	6069.6	5614.7	5598.8	6005.8	6317.1	6009.8
45°	9321.9	9262.1	8891.0	8416.1	7781.6	7226.9	6612.4	6472.7	6756.0	7019.4	6660.2
47.5°	10211.8	10112.1	9848.7	9597.3	9441.7	8579.7	7657.9	7446.4	7590.0	7785.6	7278.8
50°	11265.3	10990.0	10606.9	10455.3	10778.5	10112.1	8663.5	8460.0	8452.0	8563.7	7917.3
52.5°	11744.2	11245.4	11029.9	11157.6	11728.2	11536.7	9748.9	9457.6	9341.9	9353.9	8511.9
55°	11165.6	11109.7	11225.4	11624.5	12370.7	12259.0	10790.5	10431.3	10259.7	10044.2	9082.5
57.5°	10507.1	10678.7	11137.6	11899.8	13184.8	13013.2	11816.0	11409.0	11093.7	10598.9	9717.0
60°	9900.6	10076.2	10834.4	11963.7	13631.7	13739.5	12670.0	12282.9	11816.0	11165.6	10415.4
62.5°	8978.8	9114.4	10179.9	11871.9	13436.2	14162.5	13264.6	12973.3	12538.3	11704.3	11217.5
65°	7941.2	8029.0	9082.5	11137.6	13053.1	14114.6	13755.5	13591.8	13168.8	12267.0	12011.6
67.5°	6803.9	6907.7	7785.6	9816.8	12302.9	13891.1	14218.4	14202.4	13719.5	12889.5	12586.2
70°	5495.0	5503.0	6229.3	8140.7	10994.0	13444.2	14793.0	14828.9	14246.3	13356.4	12610.2
72.5°	2629.8	2845.3	4038.4	5682.6	8934.9	12566.3	15168.1	15347.7	14577.5	13340.4	11249.4
75°	602.6	622.5	1177.2	2701.6	5239.6	9645.2	14230.3	14565.5	13771.4	11536.7	7925.2
77.5°	219.5	231.5	331.2	790.1	2015.2	4984.2	10183.9	10674.7	10179.9	7458.4	3747.1
80°	147.7	143.7	171.6	351.2	925.8	1412.7	5207.7	5499.0	5020.1	2546.0	897.9
82.5°	75.8	79.8	119.7	195.5	622.5	490.8	1739.9	1891.5	1556.3	510.8	167.6
85°	35.9	35.9	67.8	123.7	263.4	171.6	387.1	466.9	419.0	223.5	55.9
87.5°	35.9	35.9	63.8	79.8	135.7	71.8	95.8	119.7	111.7	119.7	20.0
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°	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7
2.5°	2657.7	2653.7	2649.7	2657.7	2653.7	2661.7	2661.7	2669.7	2669.7	2661.7	2657.7
5°	2621.8	2613.8	2605.8	2605.8	2601.8	2609.8	2633.8	2653.7	2657.7	2645.7	2641.7
7.5°	2625.8	2625.8	2617.8	2601.8	2573.9	2573.9	2573.9	2597.9	2609.8	2601.8	2597.9
10°	2697.6	2701.6	2681.7	2645.7	2597.9	2554.0	2470.2	2346.4	2230.7	2198.8	2186.8
12.5°	2821.3	2825.3	2785.4	2721.6	2621.8	2362.4	2043.2	1747.9	1520.4	1456.6	1444.6
15°	2969.0	2973.0	2901.1	2797.4	2494.1	1891.5	1416.6	1081.4	881.9	834.0	830.0
17.5°	3120.6	3112.6	3004.9	2805.4	2115.0	1340.8	862.0	690.4	638.5	626.5	630.5
20°	3268.3	3244.3	3096.7	2657.7	1628.1	877.9	630.5	590.6	578.6	570.6	570.6
22.5°	3403.9	3356.1	3172.5	2366.4	1141.3	630.5	562.7	554.7	538.7	526.8	522.8
25°	3539.6	3471.8	3220.4	1987.3	766.2	550.7	530.7	514.8	494.8	478.9	474.9
27.5°	3703.2	3607.5	3196.4	1508.4	574.6	510.8	494.8	470.9	443.0	419.0	411.0
30°	3858.9	3751.1	3060.8	1041.5	490.8	470.9	446.9	411.0	375.1	347.2	339.2
32.5°	4054.4	3930.7	2817.3	682.4	427.0	411.0	387.1	343.2	295.3	263.4	255.4
35°	4333.7	4194.1	2506.1	478.9	375.1	347.2	315.3	267.4	215.5	191.5	187.6
37.5°	4724.8	4537.3	2115.0	387.1	331.2	291.3	243.4	195.5	159.6	139.7	135.7
40°	5203.7	4916.4	1680.0	343.2	295.3	243.4	183.6	139.7	115.7	99.8	99.8
42.5°	5722.5	5271.5	1237.1	315.3	259.4	199.5	135.7	99.8	83.8	75.8	71.8
45°	6257.2	5586.8	834.0	291.3	227.5	151.6	95.8	67.8	55.9	55.9	51.9
47.5°	6811.9	5798.3	538.7	263.4	191.5	111.7	63.8	47.9	39.9	39.9	39.9
50°	7362.6	5910.0	383.1	239.4	155.6	75.8	47.9	35.9	31.9	31.9	31.9
52.5°	7761.6	5838.2	307.3	207.5	119.7	55.9	35.9	27.9	23.9	23.9	23.9
55°	8108.8	5714.5	267.4	179.6	87.8	39.9	27.9	23.9	20.0	20.0	20.0
57.5°	8464.0	5554.9	239.4	151.6	63.8	27.9	20.0	16.0	16.0	16.0	16.0
60°	8787.2	5283.5	207.5	119.7	43.9	20.0	16.0	12.0	12.0	12.0	12.0
62.5°	9102.5	5052.0	179.6	91.8	31.9	16.0	8.0	8.0	4.0	4.0	4.0
65°	9282.0	4740.8	143.7	59.9	20.0	12.0	4.0	4.0	0.0	0.0	0.0
67.5°	9226.2	4369.7	99.8	35.9	12.0	8.0	4.0	0.0	0.0	0.0	0.0
70°	8839.1	3870.8	59.9	20.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0
72.5°	7402.5	2865.2	35.9	16.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
75°	4944.3	1316.9	20.0	12.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	2262.6	395.1	12.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	454.9	103.8	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	95.8	20.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	4.0	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)