

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: P400202

Luminaire Tested: **ARCH-L-PA3-250-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
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-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19391 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

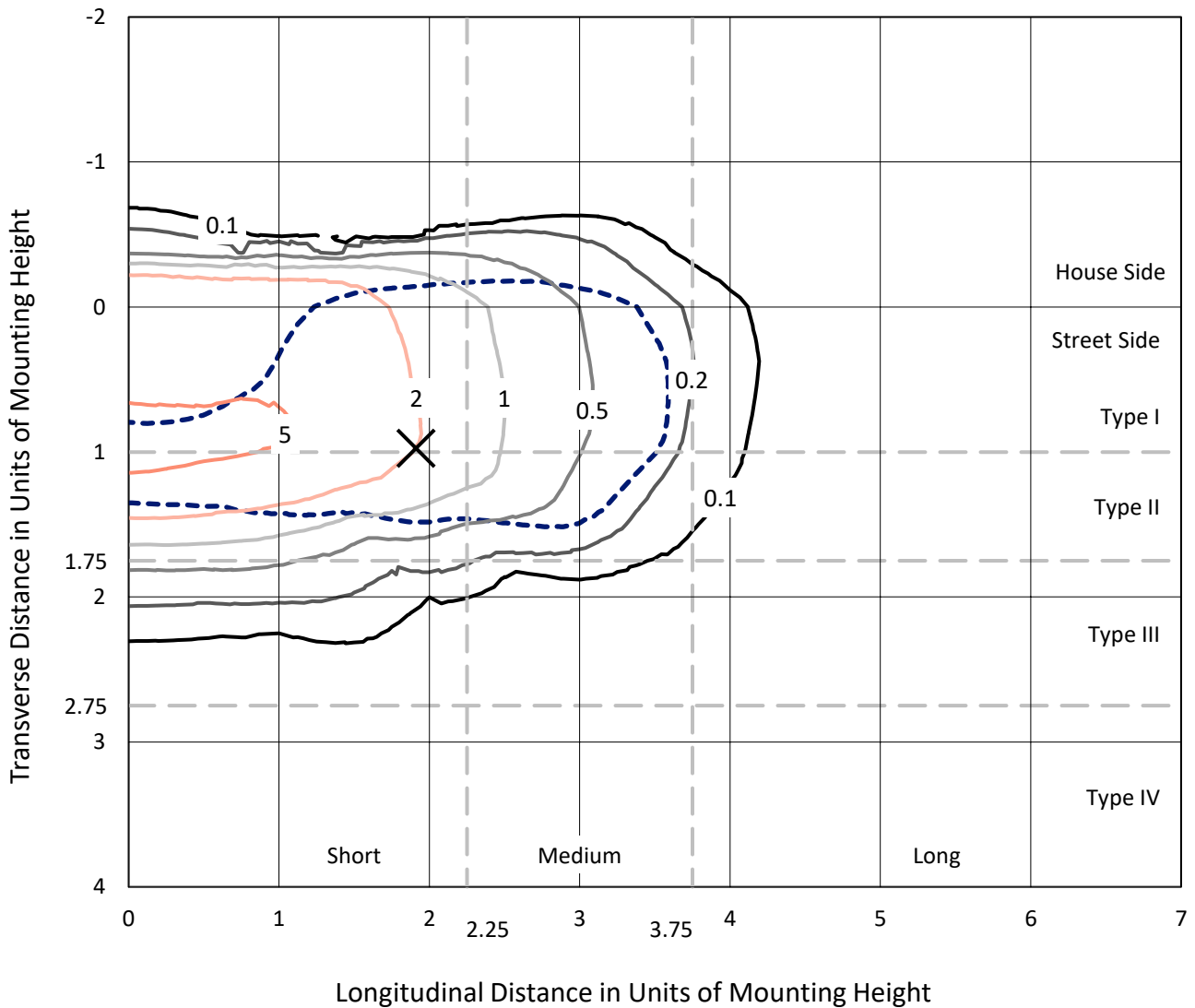
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

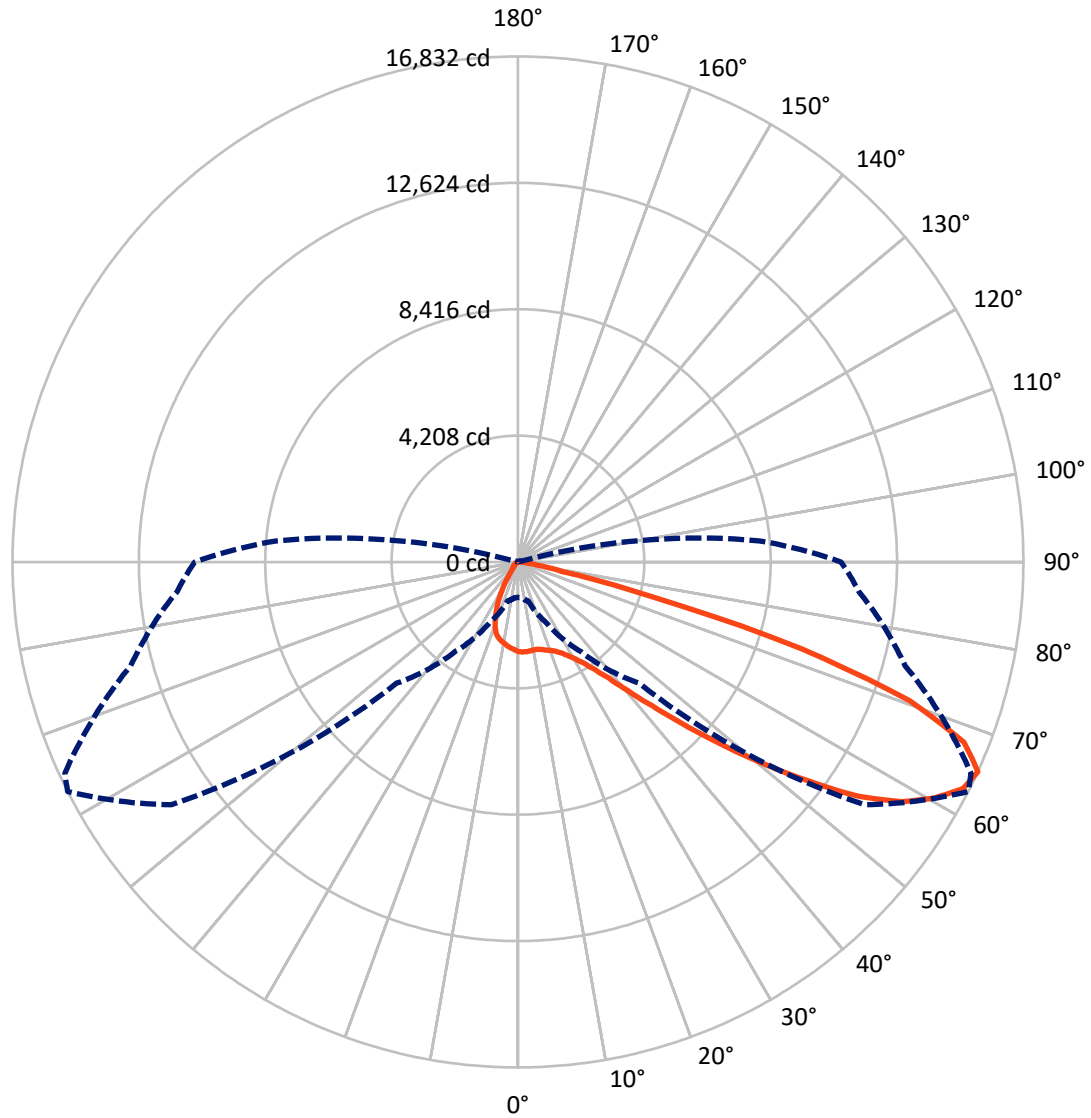
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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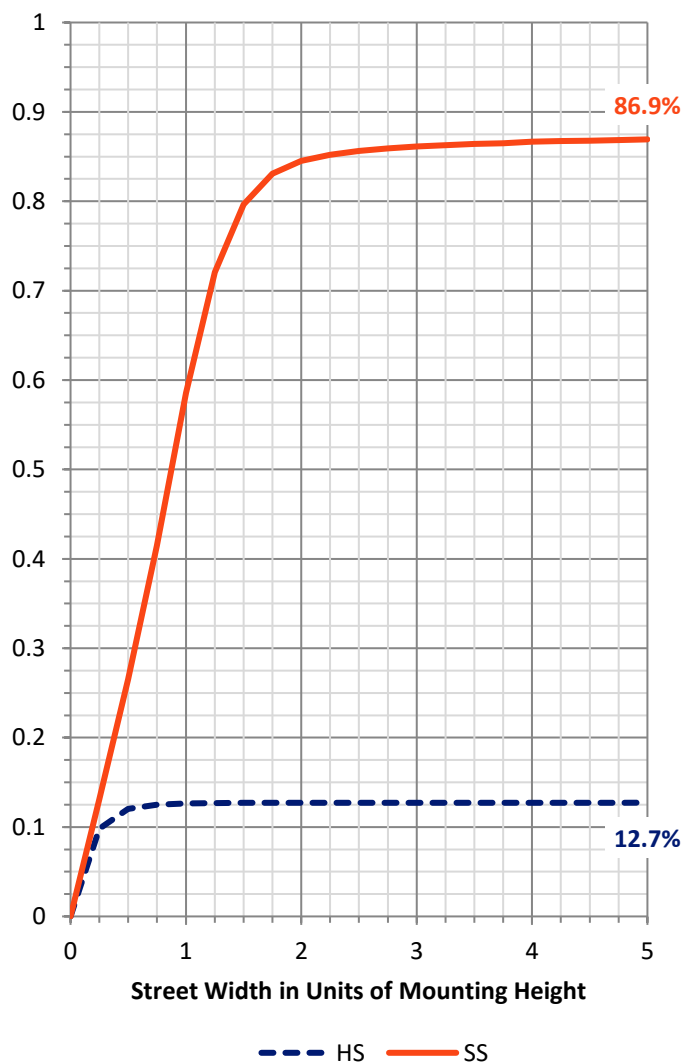
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2495.6	0.0	2495.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16895.4	0.0	16895.4
	% Fixture	87.1	0.0	87.1
Total	Lumens	19391.0	0.0	19391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.6	1.4
10°-20°	672.4	3.5
20°-30°	996.6	5.1
30°-40°	1850.5	9.5
40°-50°	3920.2	20.2
50°-60°	5420.6	28.0
60°-70°	4339.4	22.4
70°-80°	1802.9	9.3
80°-90°	115.8	0.6
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°	19391.0	100.0
0°-180°	19391.0	100.0

Coefficient of Utilization



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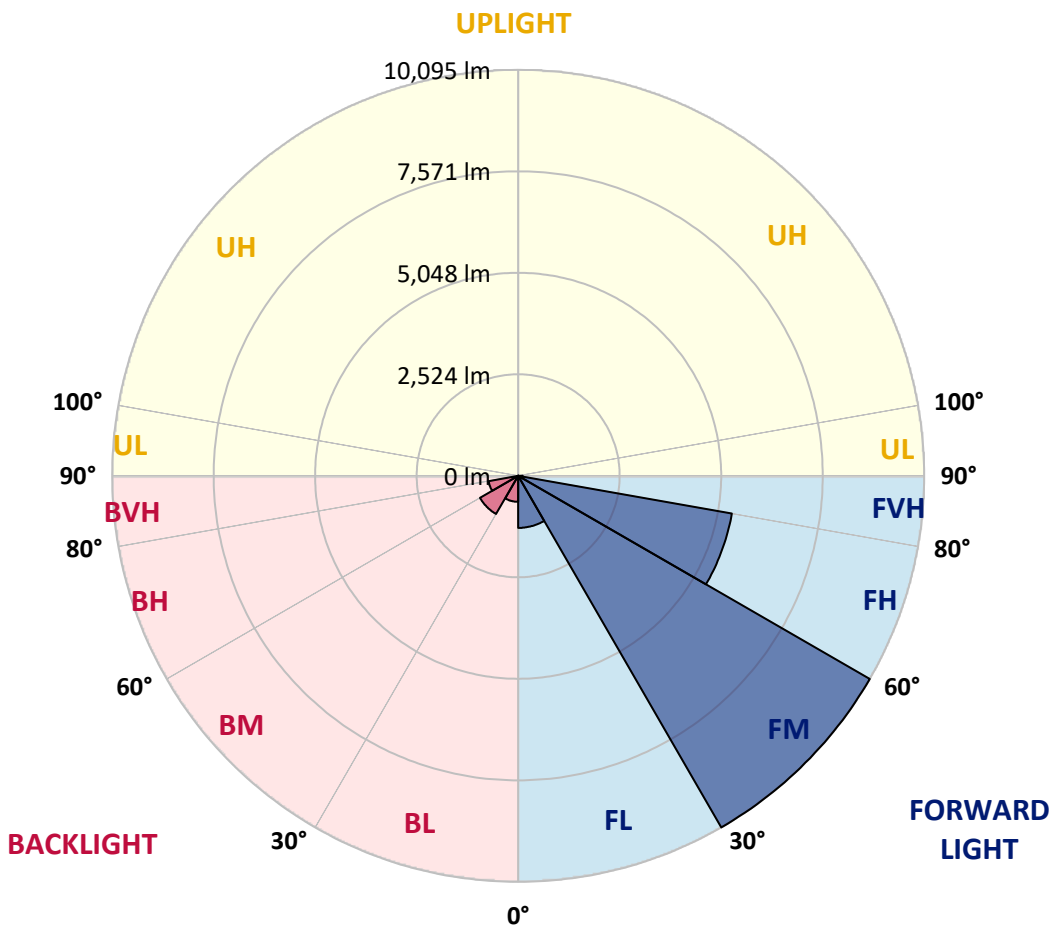
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.9	6.7			
FM (30°-60°)	10095.0	52.1			
FH (60°-80°)	5395.0	27.8			G3/7500
FVH (80°-90°)	110.5	0.6			G2/225
BL (0°-30°)	646.8	3.3	B2/1000		
BM (30°-60°)	1096.3	5.7	B2/2500		
BH (60°-80°)	747.3	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2
2.5°	3038.4	3031.1	3023.8	3020.1	3020.1	3016.5	3001.8	2998.2	2990.9	2983.5	2976.2
5°	3009.2	2998.2	2994.5	2998.2	3001.8	3009.2	3001.8	3001.8	2994.5	2987.2	2972.6
7.5°	2935.9	2928.6	2932.3	2943.3	2946.9	2972.6	2976.2	2987.2	2987.2	2979.9	2968.9
10°	2848.1	2844.4	2844.4	2862.7	2881.0	2917.6	2943.3	2972.6	2976.2	2976.2	2957.9
12.5°	2782.2	2778.5	2789.5	2811.5	2848.1	2895.7	2939.6	2983.5	2990.9	2994.5	2965.2
15°	2741.9	2741.9	2756.6	2800.5	2851.7	2917.6	2968.9	3027.5	3034.8	3031.1	2990.9
17.5°	2705.3	2709.0	2738.3	2811.5	2870.0	2957.9	3020.1	3086.0	3089.7	3086.0	3020.1
20°	2690.7	2698.0	2741.9	2837.1	2903.0	3001.8	3082.4	3148.3	3151.9	3137.3	3049.4
22.5°	2730.9	2734.6	2789.5	2892.0	2954.2	3064.1	3166.6	3228.8	3232.5	3210.5	3093.4
25°	2870.0	2870.0	2917.6	3005.5	3060.4	3170.2	3280.1	3353.3	3353.3	3327.6	3192.2
27.5°	3195.9	3166.6	3155.6	3181.2	3199.5	3316.7	3433.8	3525.3	3521.7	3485.1	3320.3
30°	3825.5	3752.3	3635.2	3503.4	3437.5	3518.0	3627.8	3745.0	3741.3	3682.7	3477.7
32.5°	4883.5	4777.3	4499.1	4151.3	3869.4	3777.9	3880.4	4008.6	4012.2	3942.7	3730.3
35°	6366.1	6197.7	5699.8	5216.6	4572.3	4224.5	4253.8	4392.9	4436.9	4400.3	4155.0
37.5°	7793.8	7640.0	7164.1	6494.2	5619.3	4909.1	4784.6	4905.4	4956.7	4956.7	4696.8
40°	9232.5	9053.1	8632.1	7958.5	7036.0	5978.0	5531.4	5630.3	5685.2	5696.2	5355.7
42.5°	10385.6	10268.5	9946.3	9422.8	8558.9	7852.4	6607.7	6552.8	6604.0	6563.8	6120.8
45°	11183.7	11092.2	10868.8	10671.2	10250.2	9895.1	8046.4	7676.6	7709.6	7570.5	6981.1
47.5°	11348.4	11245.9	11198.3	11472.9	11773.1	11860.9	9814.5	9012.8	8979.9	8672.4	7874.3
50°	10630.9	10641.9	10817.6	11601.0	12853.0	13643.7	11864.6	10521.1	10400.3	9715.7	8705.3
52.5°	9082.4	9258.1	9701.1	10971.3	13182.5	14939.6	13914.6	12120.8	11934.1	10729.7	9327.7
55°	7105.6	7332.5	8061.0	9521.7	12494.2	15518.0	15642.5	13782.8	13358.2	11491.2	9810.9
57.5°	5282.5	5352.1	6201.4	7533.9	10865.2	14950.6	16528.4	15064.1	14518.6	12098.9	10290.4
60°	3291.0	3335.0	4231.9	5736.4	8229.4	12853.0	16528.4	15946.3	15426.5	12644.3	10729.7
62.5°	2046.4	2061.0	2397.8	3931.7	5593.7	9532.7	15843.8	16630.9	16213.6	13036.0	11106.8
65°	1178.8	1193.4	1350.8	2222.1	3638.8	5707.2	14094.0	16832.3	16645.6	13347.2	11399.7
67.5°	860.3	867.6	929.8	1248.3	2379.5	2932.3	10587.0	16023.2	16257.5	13500.9	11392.3
70°	746.8	757.8	838.3	973.8	1716.9	1801.1	5388.7	13837.7	14493.0	13281.3	11051.9
72.5°	574.7	589.4	710.2	915.2	1259.3	1295.9	1951.2	9847.5	10839.6	11908.5	10118.4
75°	395.4	410.0	530.8	754.1	1039.7	970.1	1072.6	4532.0	5718.1	7987.8	7702.3
77.5°	252.6	256.3	333.1	549.1	896.9	688.2	735.8	1479.0	2075.7	3613.2	3635.2
80°	168.4	172.1	205.0	355.1	615.0	637.0	453.9	684.6	750.5	1054.3	732.2
82.5°	102.5	102.5	139.1	223.3	373.4	527.2	296.5	358.8	384.4	406.3	190.4
85°	40.3	40.3	84.2	146.4	234.3	245.3	186.7	208.7	219.6	238.0	87.9
87.5°	11.0	11.0	47.6	80.5	102.5	113.5	113.5	102.5	109.8	135.4	43.9
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°	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2
2.5°	2972.6	2961.6	2946.9	2932.3	2917.6	2906.7	2895.7	2895.7	2888.4	2877.4	2870.0
5°	2965.2	2946.9	2914.0	2888.4	2848.1	2818.8	2796.8	2778.5	2767.5	2741.9	2738.3
7.5°	2954.2	2932.3	2884.7	2833.4	2767.5	2716.3	2665.0	2628.4	2591.8	2562.5	2555.2
10°	2935.9	2910.3	2840.8	2767.5	2676.0	2580.8	2460.0	2320.9	2192.8	2119.6	2097.6
12.5°	2935.9	2903.0	2811.5	2712.6	2580.8	2346.6	2039.1	1731.5	1493.6	1387.4	1358.1
15°	2954.2	2910.3	2789.5	2654.1	2408.8	1932.9	1435.0	1028.7	768.8	688.2	669.9
17.5°	2972.6	2910.3	2756.6	2573.5	2094.0	1402.1	816.4	541.8	457.6	439.3	439.3
20°	2979.9	2903.0	2712.6	2423.4	1673.0	871.3	486.9	406.3	373.4	362.4	362.4
22.5°	3009.2	2906.7	2679.7	2207.4	1215.4	512.5	384.4	340.5	307.5	296.5	296.5
25°	3082.4	2950.6	2687.0	1932.9	779.7	388.0	325.8	281.9	248.9	234.3	234.3
27.5°	3199.5	3049.4	2727.3	1614.4	490.5	333.1	274.6	227.0	201.3	186.7	186.7
30°	3331.3	3159.3	2745.6	1248.3	366.1	281.9	223.3	179.4	161.1	150.1	146.4
32.5°	3561.9	3349.6	2730.9	856.6	300.2	238.0	179.4	142.8	128.1	124.5	124.5
35°	3931.7	3682.7	2701.7	538.1	248.9	190.4	142.8	117.1	106.2	102.5	98.8
37.5°	4433.2	4169.6	2613.8	355.1	205.0	150.1	117.1	98.8	87.9	84.2	84.2
40°	5044.6	4726.1	2445.4	270.9	175.7	120.8	98.8	84.2	76.9	73.2	73.2
42.5°	5743.8	5344.7	2178.2	234.3	146.4	102.5	84.2	69.6	65.9	62.2	62.2
45°	6508.9	5992.7	1808.4	208.7	124.5	84.2	69.6	62.2	54.9	54.9	51.3
47.5°	7321.6	6644.3	1391.1	183.0	106.2	73.2	62.2	51.3	47.6	43.9	43.9
50°	8105.0	7226.4	977.4	157.4	87.9	62.2	51.3	43.9	40.3	36.6	36.6
52.5°	8657.7	7577.8	691.9	135.4	73.2	54.9	40.3	32.9	29.3	29.3	29.3
55°	9100.7	7797.5	483.2	113.5	62.2	47.6	32.9	25.6	25.6	22.0	22.0
57.5°	9518.0	7940.2	355.1	95.2	51.3	36.6	25.6	18.3	18.3	14.6	14.6
60°	9950.0	8017.1	270.9	76.9	43.9	29.3	18.3	14.6	11.0	11.0	11.0
62.5°	10385.6	8064.7	208.7	62.2	36.6	22.0	14.6	11.0	7.3	3.7	3.7
65°	10766.3	8079.3	161.1	47.6	29.3	14.6	11.0	3.7	0.0	0.0	0.0
67.5°	10879.8	7910.9	124.5	36.6	22.0	11.0	7.3	0.0	0.0	0.0	0.0
70°	10572.3	7464.3	95.2	29.3	18.3	7.3	3.7	0.0	0.0	0.0	0.0
72.5°	9382.6	6259.9	73.2	18.3	14.6	7.3	3.7	0.0	0.0	0.0	0.0
75°	6713.9	3338.6	51.3	14.6	11.0	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	3089.7	1292.3	36.6	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
80°	604.0	322.1	14.6	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	139.1	54.9	7.3	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.6	18.3	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	7.3	3.7	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)