

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: P265731

Luminaire Tested: **ARCH-L-AF72-260-D-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T4W-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25012.1 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 261
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

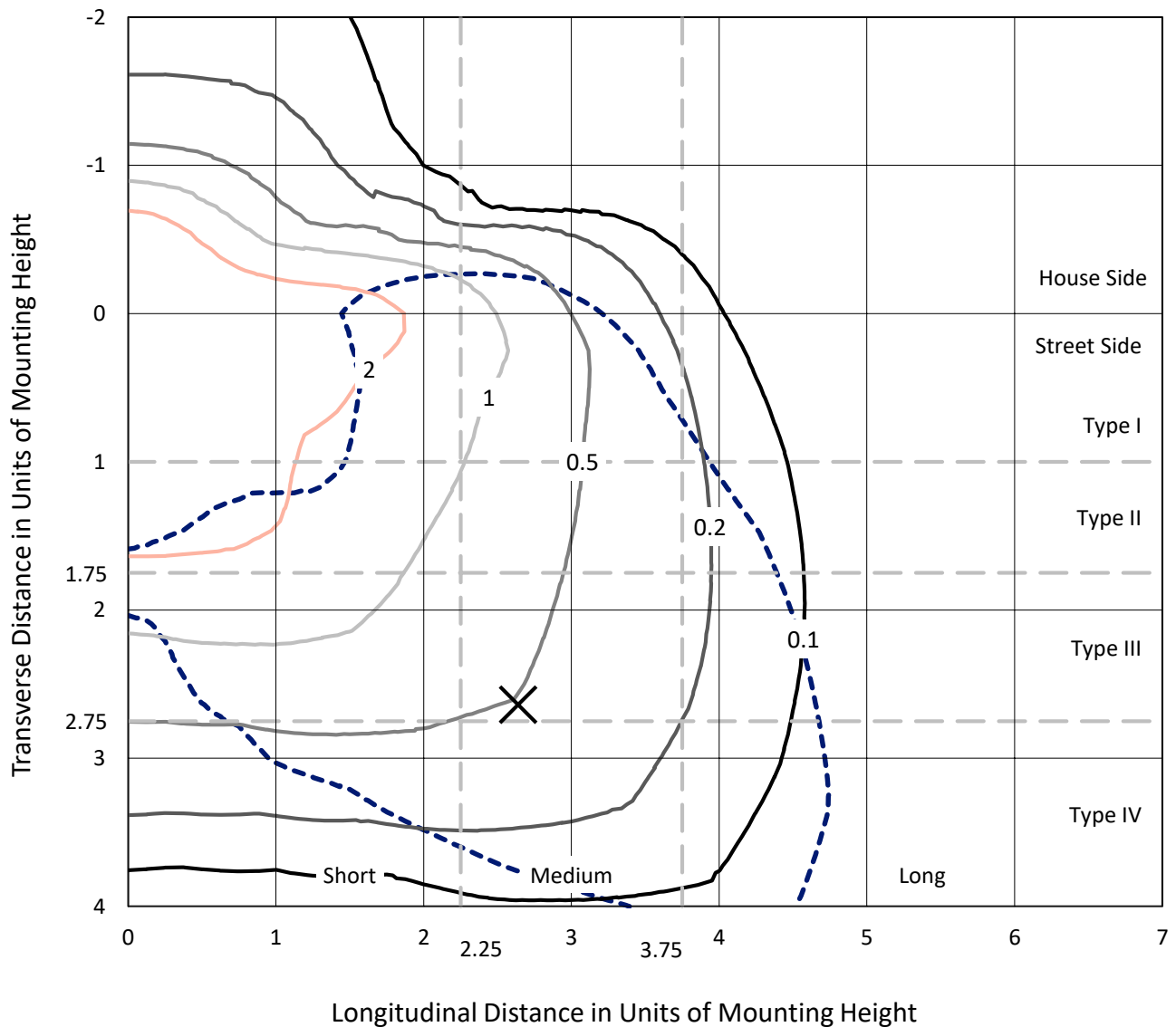


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

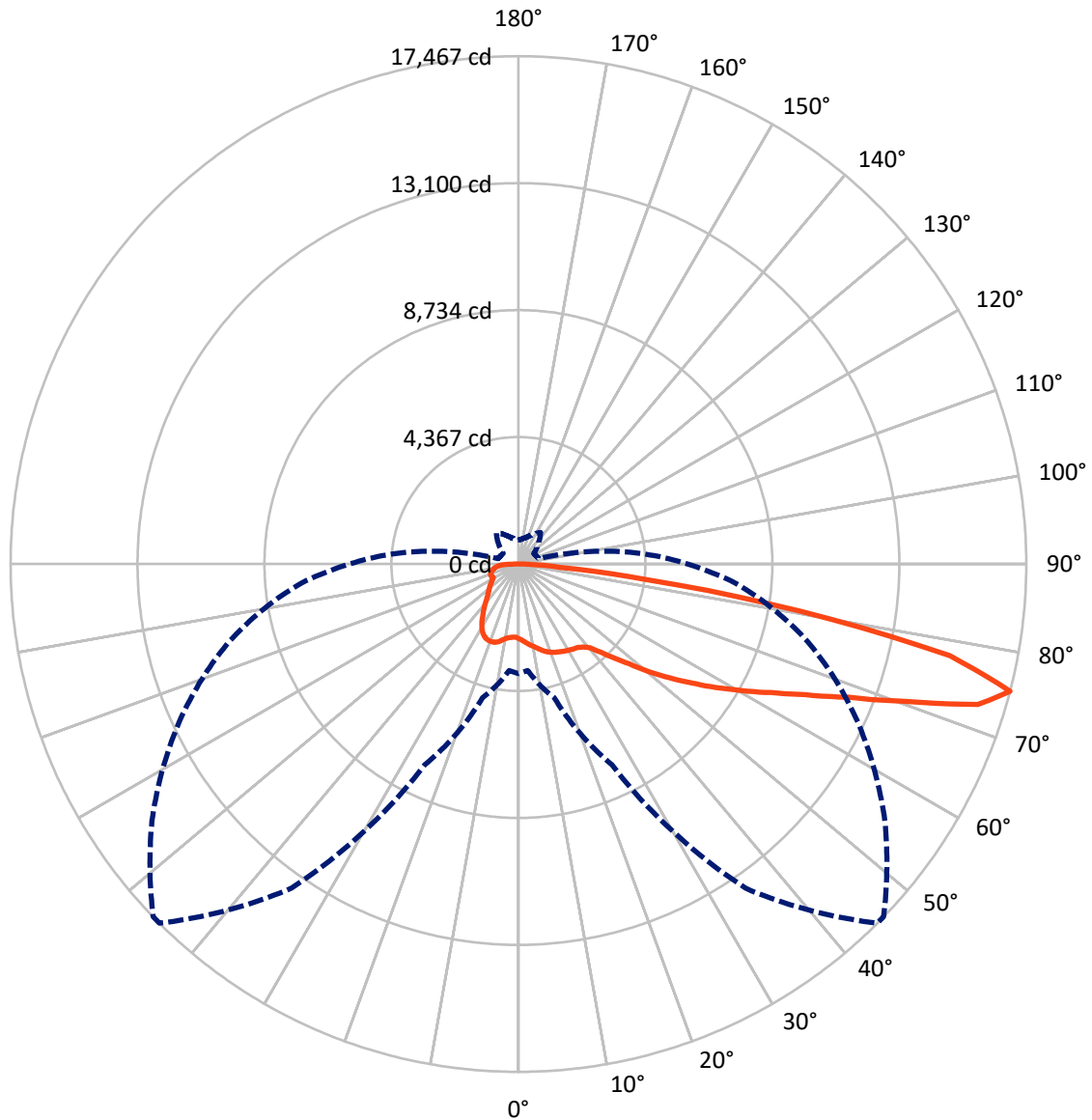


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5794.3	0.0	5794.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	19217.8	0.0	19217.8
	% Fixture	76.8	0.0	76.8
Total	Lumens	25012.1	0.0	25012.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.0
10°-20°	823.4	3.3
20°-30°	1413.0	5.6
30°-40°	1976.2	7.9
40°-50°	2899.0	11.6
50°-60°	4515.9	18.1
60°-70°	6497.9	26.0
70°-80°	5660.4	22.6
80°-90°	972.1	3.9
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°	25012.1	100.0
0°-180°	25012.1	100.0

Coefficient of Utilization



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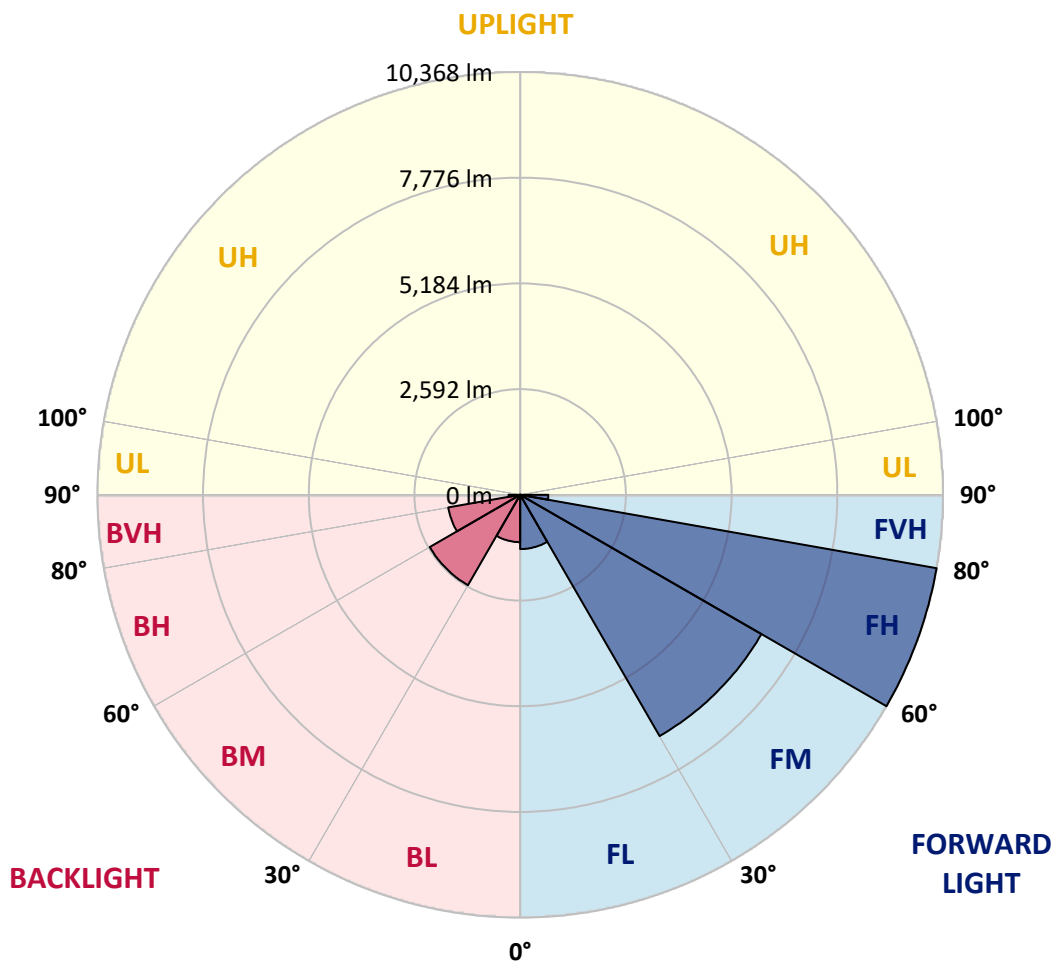
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1330.0	5.3			
FM	(30°-60°)	6830.3	27.3			
FH	(60°-80°)	10367.7	41.5			G4/12000
FVH	(80°-90°)	689.7	2.8			G4/750
BL	(0°-30°)	1160.5	4.6	B3/2500		
BM	(30°-60°)	2560.8	10.2	B3/5000		
BH	(60°-80°)	1790.6	7.2	B3/2500		G3/2500
BVH	(80°-90°)	282.4	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1
2.5°	2690.7	2671.1	2671.1	2656.6	2656.6	2632.3	2622.5	2617.7	2593.2	2578.7	2564.1
5°	2846.3	2821.9	2817.1	2782.9	2768.4	2714.9	2710.0	2676.1	2632.3	2588.5	2554.4
7.5°	2987.5	2972.9	2948.4	2914.5	2870.7	2802.5	2797.6	2744.1	2671.1	2612.7	2564.1
10°	3089.6	3079.7	3045.8	3002.0	2953.4	2885.3	2880.3	2821.9	2734.4	2666.3	2598.2
12.5°	3211.3	3196.6	3152.8	3094.4	3040.9	2977.6	2972.9	2924.2	2826.8	2739.2	2651.6
15°	3328.0	3308.5	3255.0	3196.6	3138.1	3084.7	3084.7	3031.2	2929.1	2826.8	2724.6
17.5°	3386.3	3376.5	3323.1	3259.9	3211.3	3172.3	3167.5	3118.7	3016.6	2909.5	2797.6
20°	3405.8	3410.7	3362.0	3293.9	3259.9	3240.4	3235.5	3201.5	3089.6	2987.5	2880.3
22.5°	3401.0	3415.5	3376.5	3303.6	3293.9	3293.9	3293.9	3255.0	3167.5	3065.2	2958.2
25°	3420.3	3439.9	3410.7	3323.1	3323.1	3342.6	3342.6	3323.1	3245.2	3157.7	3050.6
27.5°	3488.5	3503.1	3478.7	3357.1	3362.0	3391.2	3386.3	3391.2	3342.6	3259.9	3152.8
30°	3571.2	3590.7	3561.5	3410.7	3405.8	3434.9	3434.9	3459.4	3425.2	3337.7	3250.1
32.5°	3795.1	3790.2	3697.8	3469.1	3454.4	3483.6	3483.6	3508.1	3488.5	3420.3	3337.7
35°	4461.6	4388.6	4184.2	3658.8	3512.8	3527.5	3527.5	3571.2	3581.0	3527.5	3454.4
37.5°	5142.7	5118.5	4962.7	4164.8	3727.0	3619.9	3615.0	3678.3	3722.0	3678.3	3629.6
40°	5828.8	5809.3	5775.4	4841.1	4174.6	3785.3	3770.7	3824.3	3902.1	3873.0	3843.7
42.5°	6466.2	6456.5	6490.6	5507.7	4743.8	4140.5	4096.7	4033.5	4145.4	4135.6	4135.6
45°	6967.3	6991.7	7011.1	6130.5	5361.8	4597.9	4544.3	4330.3	4481.0	4520.0	4549.1
47.5°	7249.5	7268.9	7337.0	6738.6	5979.7	5128.2	5089.3	4739.0	4938.4	5055.2	5137.9
50°	7653.4	7599.8	7658.2	7332.2	6724.1	5819.1	5712.1	5288.7	5541.7	5746.1	5940.8
52.5°	8042.5	7955.0	8003.7	8018.4	7570.6	6495.4	6383.4	5935.8	6252.2	6573.2	6918.7
55°	8393.0	8388.1	8436.7	8684.9	8388.1	7220.3	7093.8	6651.1	7108.4	7453.9	8037.8
57.5°	8675.1	8723.8	8937.9	9458.4	9332.0	8008.5	7867.4	7483.2	8023.1	8368.6	9336.9
60°	9006.0	9083.8	9439.0	10115.3	10193.1	8835.6	8689.8	8412.4	8962.2	9312.5	10840.2
62.5°	9117.8	9229.7	9959.6	10806.3	11093.2	9740.6	9609.3	9424.4	9949.8	10266.1	12338.8
65°	8373.5	8587.4	10246.6	11161.4	12061.5	10830.4	10718.5	10558.0	10932.6	11141.9	13355.7
67.5°	8169.0	8266.5	9687.1	11672.1	12971.3	12231.7	12119.8	11842.5	11852.2	11764.7	13686.4
70°	7882.0	7989.0	9112.9	12056.6	14275.2	14148.8	14012.5	13195.2	12693.9	12163.6	13034.5
72.5°	6714.3	6680.2	7852.9	11020.2	14902.9	16523.1	16362.4	14649.9	13316.7	11818.2	11000.7
75°	3770.7	3673.3	4763.3	7624.2	13608.7	17467.0	17462.2	15384.6	12878.8	10295.3	7487.9
77.5°	1094.8	1065.5	1571.6	3196.6	9161.6	15175.3	15360.2	13876.3	10747.9	7395.4	4111.4
80°	515.7	525.5	676.3	1055.8	3911.8	9794.1	10324.5	9137.3	6422.4	3410.7	1698.1
82.5°	325.9	330.8	462.2	681.2	1654.3	4447.0	4885.0	4111.4	2544.5	1474.2	749.2
85°	204.4	204.4	306.5	447.6	987.6	1420.7	1542.3	1401.3	1089.9	802.7	408.6
87.5°	111.8	111.8	185.0	257.9	540.2	457.3	472.0	559.6	681.2	491.5	204.4
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°	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1	2564.1
2.5°	2559.2	2549.5	2534.8	2530.0	2525.1	2520.4	2525.1	2534.8	2525.1	2525.1	2530.0
5°	2544.5	2534.8	2515.4	2515.4	2520.4	2525.1	2549.5	2564.1	2569.0	2569.0	2569.0
7.5°	2544.5	2530.0	2515.4	2520.4	2530.0	2549.5	2588.5	2612.7	2632.3	2637.1	2637.1
10°	2569.0	2549.5	2539.8	2549.5	2578.7	2593.2	2632.3	2671.1	2695.5	2705.2	2705.2
12.5°	2612.7	2593.2	2593.2	2612.7	2651.6	2671.1	2705.2	2734.4	2763.5	2778.2	2778.2
15°	2685.8	2661.4	2666.3	2700.3	2744.1	2763.5	2787.9	2797.6	2821.9	2841.3	2841.3
17.5°	2753.8	2729.5	2739.2	2778.2	2807.4	2817.1	2831.6	2826.8	2836.6	2851.1	2856.0
20°	2831.6	2807.4	2812.2	2836.6	2841.3	2831.6	2831.6	2817.1	2812.2	2836.6	2846.3
22.5°	2909.5	2885.3	2880.3	2865.8	2841.3	2817.1	2802.5	2787.9	2778.2	2802.5	2812.2
25°	3002.0	2967.9	2943.6	2880.3	2817.1	2773.2	2753.8	2744.1	2739.2	2763.5	2773.2
27.5°	3104.2	3070.0	2997.1	2860.9	2758.8	2685.8	2671.1	2671.1	2680.8	2695.5	2705.2
30°	3201.5	3167.5	3036.0	2817.1	2656.6	2549.5	2534.8	2549.5	2573.9	2588.5	2603.0
32.5°	3298.8	3264.7	3060.3	2749.0	2505.7	2369.5	2359.8	2384.1	2423.0	2432.7	2442.4
35°	3430.2	3396.1	3089.6	2651.6	2316.0	2169.9	2160.2	2174.8	2208.9	2223.6	2238.0
37.5°	3615.0	3595.6	3133.4	2544.5	2140.8	1980.3	1951.1	1941.2	1960.8	1955.9	1975.4
40°	3858.3	3873.0	3211.3	2403.5	1970.5	1805.1	1741.9	1712.7	1693.1	1654.3	1673.7
42.5°	4213.5	4223.2	3298.8	2243.0	1824.5	1639.6	1556.9	1503.5	1464.4	1401.3	1411.0
45°	4734.1	4651.3	3401.0	2072.7	1693.1	1508.3	1411.0	1347.7	1294.2	1240.6	1245.6
47.5°	5425.0	5172.0	3512.8	1931.5	1561.9	1401.3	1313.7	1240.6	1177.5	1133.7	1138.5
50°	6276.5	5819.1	3624.8	1800.3	1430.5	1318.5	1240.6	1162.9	1099.5	1055.8	1050.9
52.5°	7400.3	6597.5	3697.8	1654.3	1299.0	1245.6	1177.5	1104.5	1026.7	973.1	968.3
55°	8568.0	7502.6	3761.1	1479.1	1172.6	1162.9	1128.8	1046.0	953.6	885.5	875.8
57.5°	9852.5	8470.7	3809.6	1308.8	1075.4	1094.8	1085.1	987.6	885.5	822.3	817.4
60°	11020.2	9473.0	3653.9	1157.9	987.6	1026.7	1036.4	953.6	900.1	914.7	919.5
62.5°	12197.6	10246.6	3060.3	1046.0	929.2	982.8	1065.5	1060.7	1036.4	1060.7	1065.5
65°	12620.9	10407.3	2169.9	953.6	870.8	1002.2	1157.9	1148.3	1036.4	992.5	982.8
67.5°	12382.5	9930.5	1459.7	880.7	827.1	1026.7	1255.3	1148.3	997.4	939.0	919.5
70°	11248.9	8757.8	1070.4	807.7	788.3	1021.7	1308.8	1143.5	978.0	914.7	890.4
72.5°	8971.9	6758.0	861.1	739.6	729.9	997.4	1337.9	1133.7	958.5	890.4	861.1
75°	5809.3	4203.8	724.9	671.5	642.3	958.5	1323.5	1104.5	934.1	846.7	827.1
77.5°	2695.5	1809.9	617.9	593.6	559.6	900.1	1279.6	1046.0	880.7	798.0	773.6
80°	1255.3	856.4	520.6	515.7	501.2	851.5	1221.2	978.0	817.4	749.2	710.4
82.5°	671.5	515.7	423.3	423.3	438.0	793.1	1148.3	895.3	734.6	700.6	598.5
85°	355.2	296.8	306.5	330.8	374.7	700.6	1050.9	807.7	642.3	535.2	520.6
87.5°	180.0	189.7	189.7	223.8	287.1	569.3	866.1	666.5	544.9	438.0	428.1
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)