

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: P265702

Luminaire Tested: **ARCH-L-AF72-230-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-230-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23199.3 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 229
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

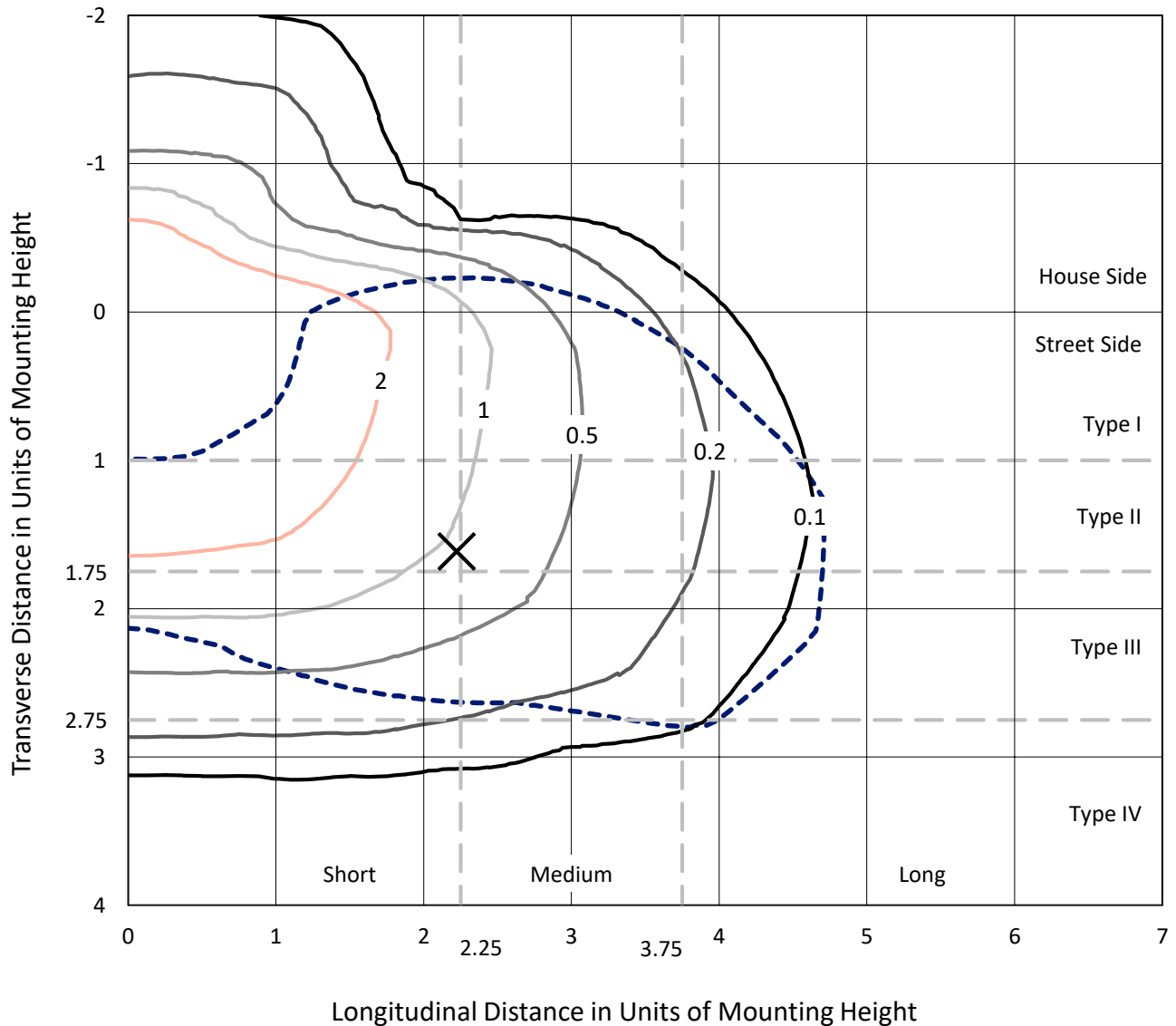


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Iso-Footcandle Lines of Horizontal Illumination

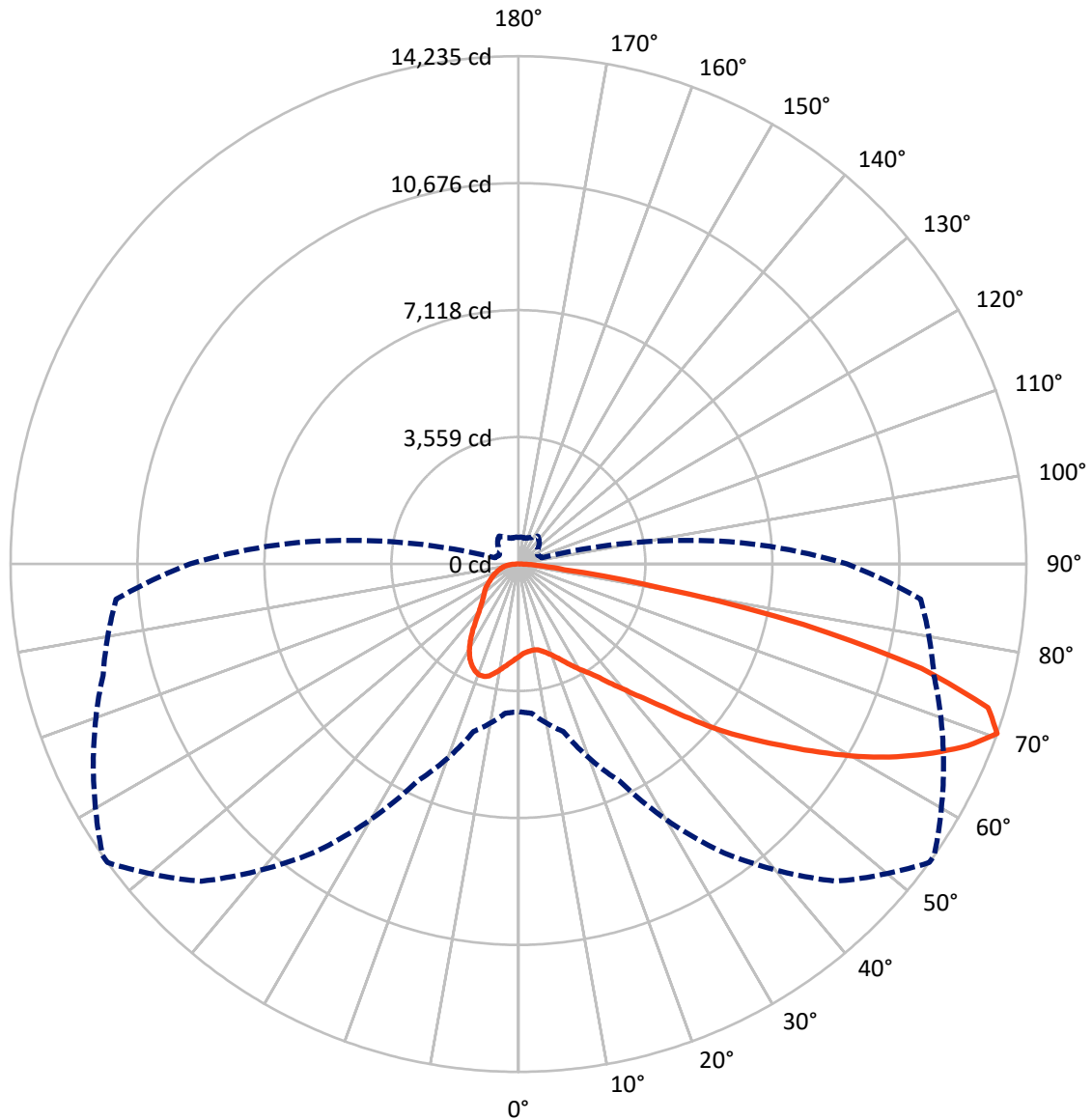
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5261.5	0.0	5261.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	17937.8	0.0	17937.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	23199.3	0.0	23199.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.1
10°-20°	813.9	3.5
20°-30°	1414.0	6.1
30°-40°	2066.4	8.9
40°-50°	3243.2	14.0
50°-60°	4987.2	21.5
60°-70°	6093.2	26.3
70°-80°	3777.8	16.3
80°-90°	548.8	2.4
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°	23199.3	100.0
0°-180°	23199.3	100.0

Coefficient of Utilization



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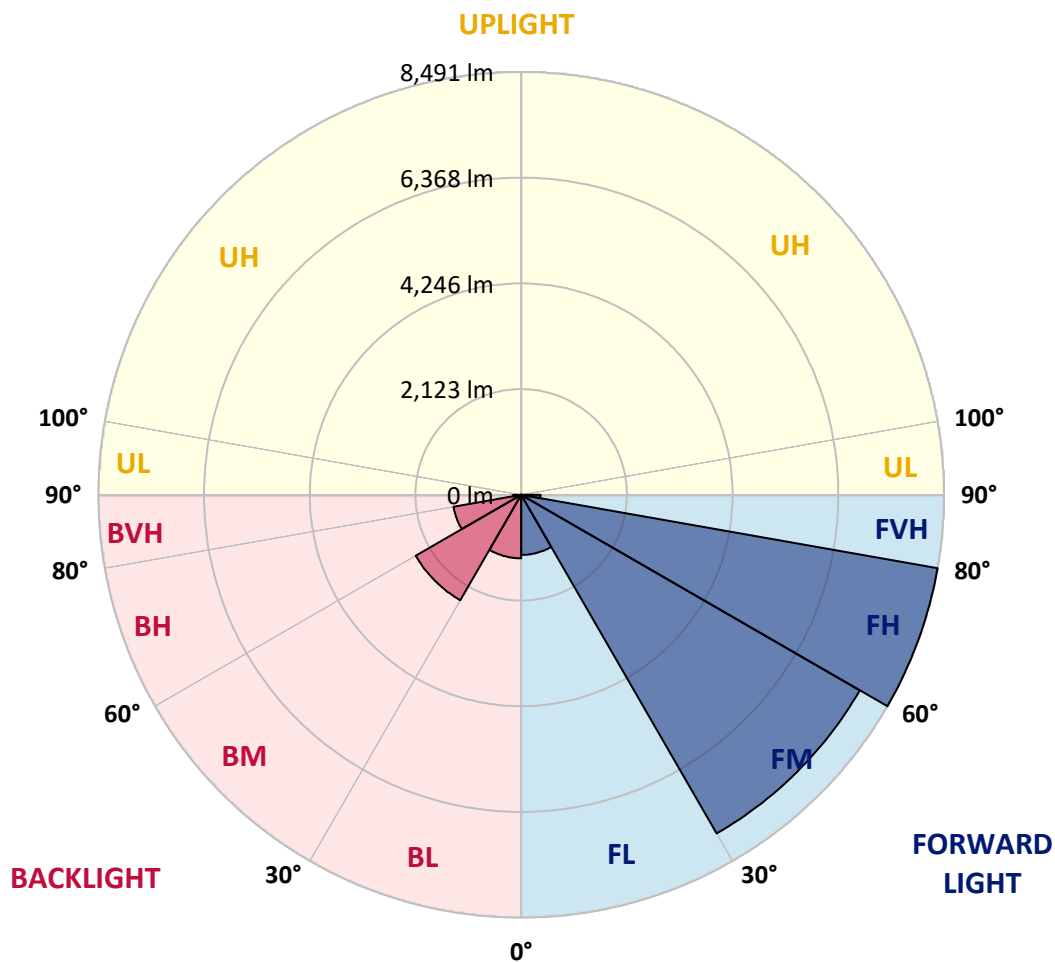
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1207.0	5.2			
FM	(30°-60°)	7851.9	33.8			
FH	(60°-80°)	8491.3	36.6			G4/12000
FVH	(80°-90°)	387.5	1.7			G3/500
BL	(0°-30°)	1275.6	5.5	B3/2500		
BM	(30°-60°)	2444.9	10.5	B2/2500		
BH	(60°-80°)	1379.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	161.3	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6
2.5°	2493.5	2485.2	2485.2	2497.8	2502.0	2514.8	2514.8	2519.0	2531.9	2553.1	2578.6
5°	2417.1	2412.8	2417.1	2434.0	2442.6	2468.2	2476.5	2480.8	2506.4	2540.2	2578.6
7.5°	2340.7	2336.4	2344.8	2370.4	2395.9	2434.0	2455.3	2459.6	2497.8	2544.5	2595.6
10°	2315.1	2310.9	2323.6	2344.8	2370.4	2412.8	2446.9	2451.0	2506.4	2561.5	2633.8
12.5°	2349.2	2344.8	2357.6	2378.9	2404.4	2434.0	2472.3	2476.5	2548.9	2621.1	2697.5
15°	2434.0	2434.0	2438.4	2451.0	2476.5	2502.0	2536.1	2540.2	2616.8	2701.7	2778.2
17.5°	2565.7	2557.3	2557.3	2553.1	2570.1	2582.7	2625.2	2629.5	2710.2	2786.7	2863.2
20°	2727.3	2722.9	2706.0	2684.8	2680.5	2688.9	2731.4	2735.7	2816.5	2880.1	2952.4
22.5°	2922.6	2926.9	2888.6	2841.9	2820.7	2833.4	2871.6	2876.0	2935.4	2990.5	3054.2
25°	3181.7	3169.0	3113.7	3045.9	3003.4	3003.4	3041.7	3041.7	3096.7	3130.9	3173.3
27.5°	3428.1	3402.7	3351.7	3254.0	3186.0	3198.8	3237.0	3237.0	3287.9	3300.7	3321.9
30°	3695.7	3670.2	3606.5	3483.4	3394.2	3385.6	3432.3	3428.1	3496.2	3491.8	3474.9
32.5°	4022.9	4010.2	3903.9	3746.7	3627.7	3598.0	3640.6	3644.9	3687.3	3674.5	3619.4
35°	4481.6	4477.4	4379.6	4103.5	3946.4	3891.2	3916.7	3916.7	3946.4	3912.4	3819.0
37.5°	5059.3	5067.9	4982.9	4575.1	4354.3	4260.8	4265.1	4260.8	4269.3	4230.9	4133.3
40°	5637.1	5658.3	5654.1	5161.3	4881.0	4719.5	4660.0	4651.6	4672.9	4655.8	4562.3
42.5°	6397.5	6448.5	6329.5	5883.4	5569.1	5297.2	5135.8	5114.6	5161.3	5182.5	5093.4
45°	7187.6	7170.6	6983.8	6660.8	6376.3	6027.9	5722.1	5688.1	5722.1	5785.8	5692.3
47.5°	7599.8	7586.9	7540.3	7378.8	7336.3	6937.0	6473.9	6444.3	6380.5	6469.8	6359.2
50°	8279.4	8292.2	8100.9	8083.9	8262.4	8041.4	7323.5	7255.6	7140.8	7213.1	7119.6
52.5°	8772.0	8717.0	8597.9	8746.6	9303.1	9184.2	8122.1	8092.4	7986.2	7969.3	7926.7
55°	8971.8	8971.8	8993.0	9337.2	10131.5	9974.3	8988.8	9018.5	8874.0	8755.2	8810.3
57.5°	9031.3	9056.7	9239.3	9808.7	11104.3	10590.3	9944.5	9987.0	9778.9	9541.0	9715.2
60°	8738.2	8814.6	9252.2	10076.3	11652.3	11244.4	10951.3	10964.2	10662.5	10314.2	10620.0
62.5°	7986.2	8079.7	8861.3	10186.7	11563.1	11915.7	11902.9	11932.6	11520.7	11087.3	11469.6
65°	7064.5	7157.9	7990.6	9876.7	11495.2	12395.7	12773.8	12854.4	12323.5	11741.4	12000.5
67.5°	5709.3	5832.5	6622.7	8831.5	11163.7	12790.7	13589.4	13674.3	12943.7	12081.3	11953.8
70°	4137.6	4197.1	4859.7	6711.9	9812.8	12574.0	14235.0	14230.8	13147.6	12055.9	11316.7
72.5°	1992.4	2039.1	2612.5	4167.2	7017.6	10671.0	13767.9	13848.5	12867.2	11686.3	9859.5
75°	819.9	866.5	1057.8	1758.7	3683.1	7051.6	11669.3	11860.4	11686.3	10488.3	7714.4
77.5°	509.8	526.8	620.2	909.1	1682.2	3292.2	8168.8	8428.1	9260.6	8402.6	5093.4
80°	382.3	395.1	463.0	637.2	1061.9	1215.0	4056.8	4384.0	5611.6	4821.6	2306.7
82.5°	318.5	322.9	369.6	463.0	722.1	696.6	1299.8	1448.5	2616.8	1839.4	794.5
85°	297.3	305.9	331.4	331.4	458.8	437.6	539.5	564.9	760.3	628.8	276.0
87.5°	152.9	144.4	293.0	259.2	238.0	212.4	229.3	246.3	284.7	301.7	123.2
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°	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6
2.5°	2586.9	2599.8	2621.1	2642.3	2667.7	2697.5	2714.5	2735.7	2752.6	2744.2	2740.0
5°	2599.8	2621.1	2667.7	2710.2	2761.2	2820.7	2858.9	2901.3	2935.4	2943.8	2931.1
7.5°	2621.1	2659.3	2722.9	2799.5	2867.4	2943.8	3003.4	3062.9	3105.4	3113.7	3113.7
10°	2672.0	2714.5	2799.5	2901.3	2982.2	3062.9	3130.9	3177.6	3215.8	3232.7	3232.7
12.5°	2744.2	2795.2	2897.2	3020.3	3109.6	3186.0	3224.2	3245.4	3262.5	3279.4	3283.8
15°	2829.2	2884.4	3007.5	3139.2	3232.7	3271.0	3271.0	3266.7	3266.7	3275.2	3283.8
17.5°	2914.1	2973.6	3101.0	3241.3	3300.7	3279.4	3249.7	3237.0	3228.5	3224.2	3237.0
20°	3003.4	3062.9	3190.2	3321.9	3305.0	3215.8	3173.3	3143.4	3118.0	3105.4	3122.2
22.5°	3101.0	3156.3	3287.9	3377.2	3249.7	3113.7	3033.0	2986.3	2943.8	2918.4	2935.4
25°	3215.8	3271.0	3398.4	3394.2	3152.1	2960.9	2833.4	2757.0	2710.2	2684.8	2684.8
27.5°	3351.7	3398.4	3521.5	3351.7	3016.1	2757.0	2570.1	2497.8	2485.2	2463.8	2463.8
30°	3491.8	3530.1	3636.2	3254.0	2829.2	2489.4	2285.4	2251.4	2255.7	2234.4	2238.7
32.5°	3636.2	3674.5	3704.3	3109.6	2586.9	2187.7	2051.8	2026.2	2022.1	2005.0	1988.0
35°	3840.3	3895.4	3712.8	2914.1	2293.9	1937.0	1839.4	1813.9	1788.4	1729.0	1729.0
37.5°	4150.3	4209.7	3691.6	2672.0	1992.4	1741.6	1652.5	1618.4	1575.9	1516.6	1495.3
40°	4575.1	4575.1	3644.9	2400.1	1750.2	1584.5	1499.5	1457.1	1410.2	1351.0	1338.1
42.5°	5076.3	4957.4	3572.6	2124.0	1571.8	1478.3	1401.8	1355.2	1299.8	1231.9	1223.4
45°	5662.6	5339.7	3470.6	1877.5	1440.1	1414.7	1367.8	1287.1	1193.7	1121.4	1108.7
47.5°	6231.8	5683.8	3373.0	1703.5	1329.6	1389.0	1351.0	1215.0	1087.5	985.5	972.8
50°	6856.3	5989.7	3258.2	1559.0	1244.6	1372.2	1329.6	1108.7	968.6	896.2	887.9
52.5°	7480.7	6299.9	3135.1	1406.0	1172.5	1338.1	1278.6	1032.2	964.3	866.5	853.8
55°	8139.2	6660.8	2990.5	1236.2	1087.5	1270.2	1210.6	1028.0	994.1	866.5	836.9
57.5°	8780.7	7060.1	2757.0	1070.5	994.1	1168.2	1185.3	1002.5	930.4	858.2	824.1
60°	9490.1	7484.9	2370.4	930.4	913.3	1083.3	1151.2	947.4	858.2	832.5	815.7
62.5°	10059.3	7867.3	1852.1	832.5	845.3	1015.3	1108.7	913.3	828.3	807.0	802.8
65°	10305.6	7875.8	1329.6	747.7	777.5	951.6	1066.3	883.7	802.8	794.5	790.1
67.5°	10046.6	7442.5	934.5	666.9	705.2	892.0	1011.0	853.8	777.5	781.6	773.1
70°	9209.7	6529.2	683.9	590.5	637.2	828.3	951.6	815.7	747.7	756.2	743.3
72.5°	7705.9	5089.1	548.0	526.8	582.0	760.3	892.0	773.1	700.9	705.2	679.7
75°	5692.3	3373.0	458.8	471.5	518.2	696.6	815.7	717.9	650.0	632.9	616.0
77.5°	3385.6	1733.2	378.0	412.1	463.0	620.2	730.6	650.0	594.7	564.9	552.3
80°	1397.7	700.9	310.2	348.4	403.6	552.3	645.7	569.3	531.0	501.3	484.2
82.5°	556.5	344.1	246.3	284.7	339.9	480.1	564.9	501.3	463.0	441.7	395.1
85°	212.4	169.9	165.6	199.7	254.8	369.6	467.3	420.5	390.9	335.5	322.9
87.5°	85.0	76.4	76.4	97.6	144.4	233.6	335.5	293.0	305.9	242.2	246.3
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)