

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: P835823

Luminaire Tested: **ARCH3-100-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15921 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

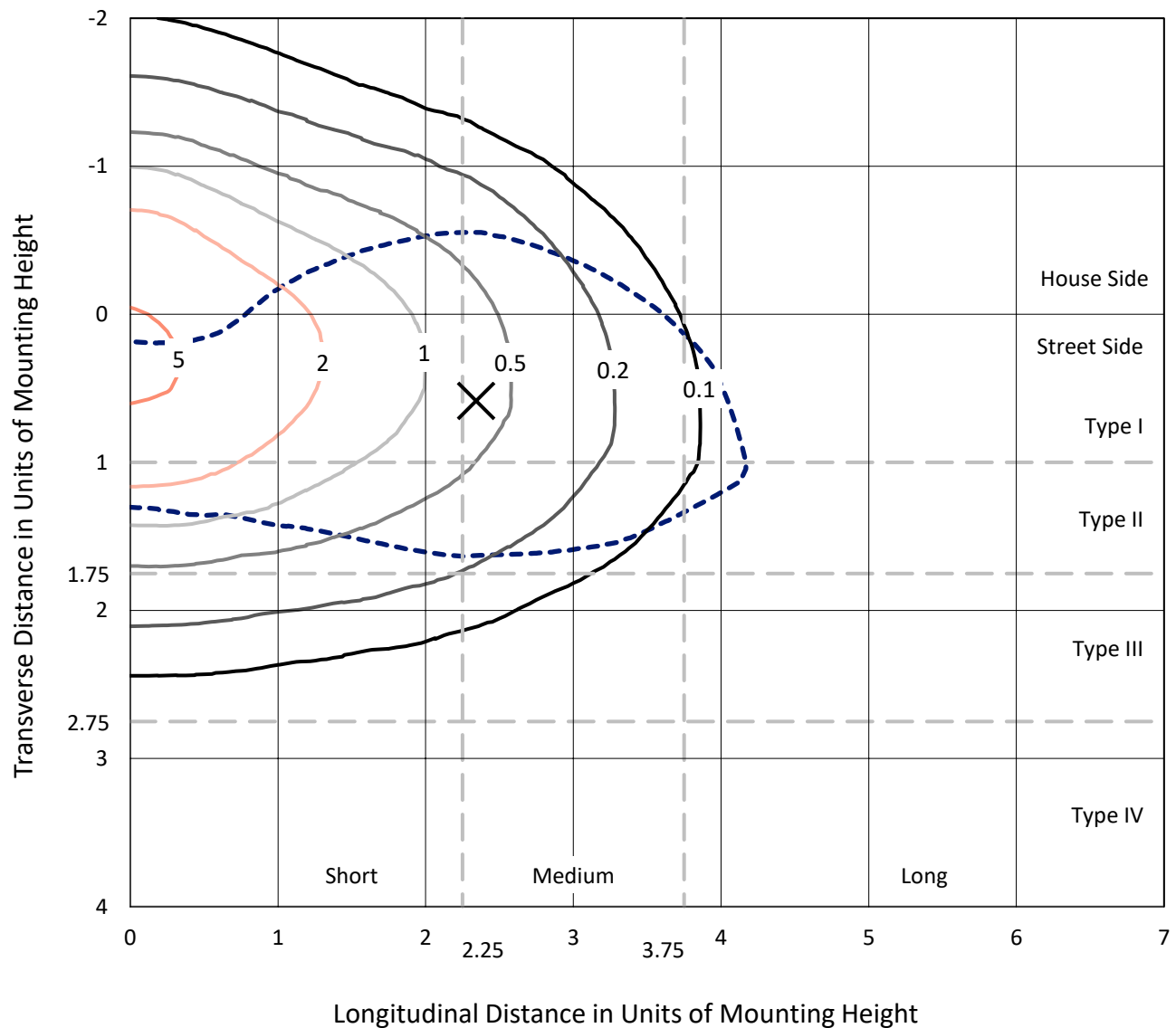
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

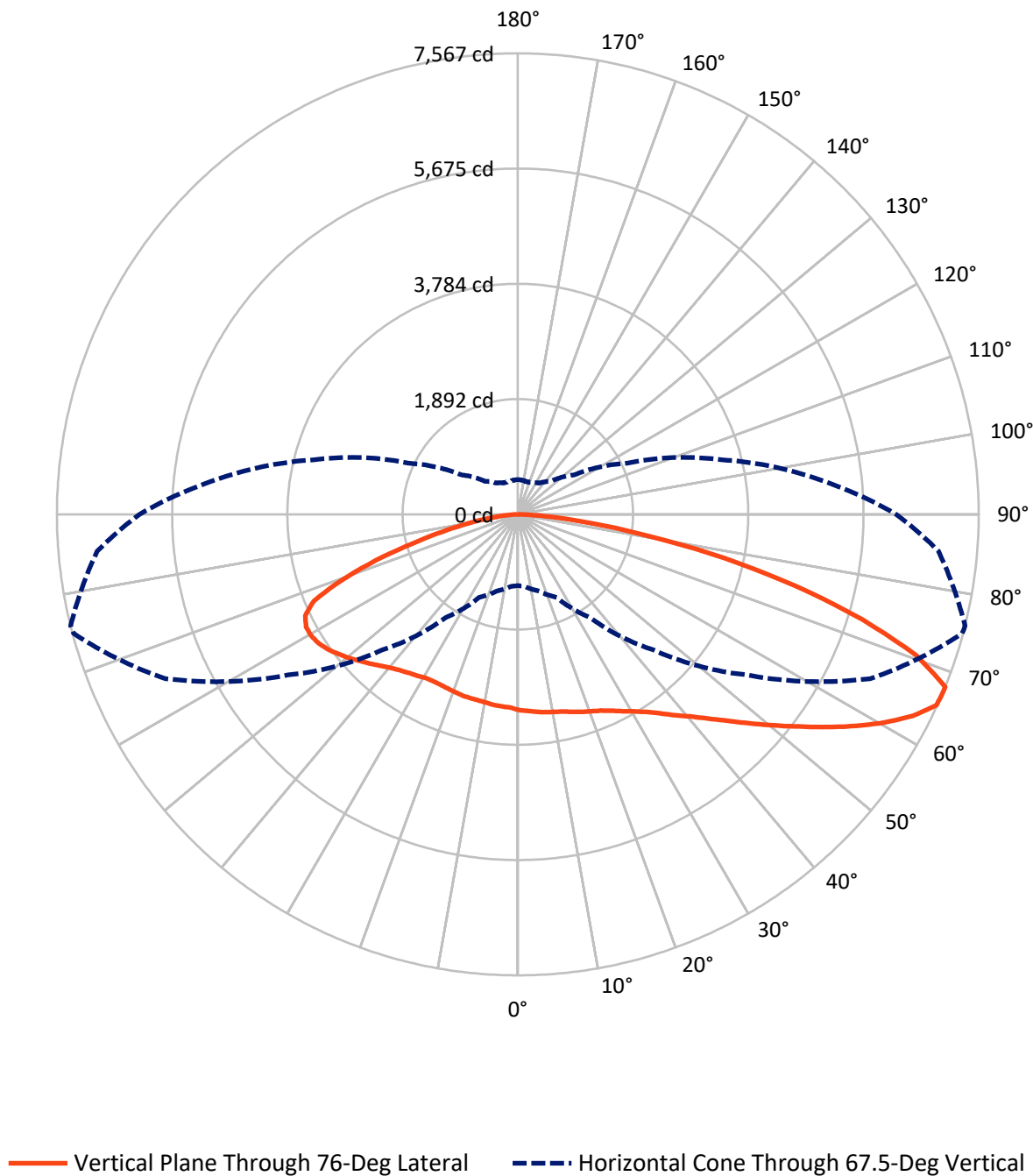
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5379.8	0.0	5379.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	10541.2	0.0	10541.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	15921.0	0.0	15921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	1.9
10°-20°	948.1	6.0
20°-30°	1610.8	10.1
30°-40°	2292.0	14.4
40°-50°	2894.6	18.2
50°-60°	3134.0	19.7
60°-70°	2915.0	18.3
70°-80°	1565.6	9.8
80°-90°	250.9	1.6
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°	15921.0	100.0
0°-180°	15921.0	100.0

Coefficient of Utilization



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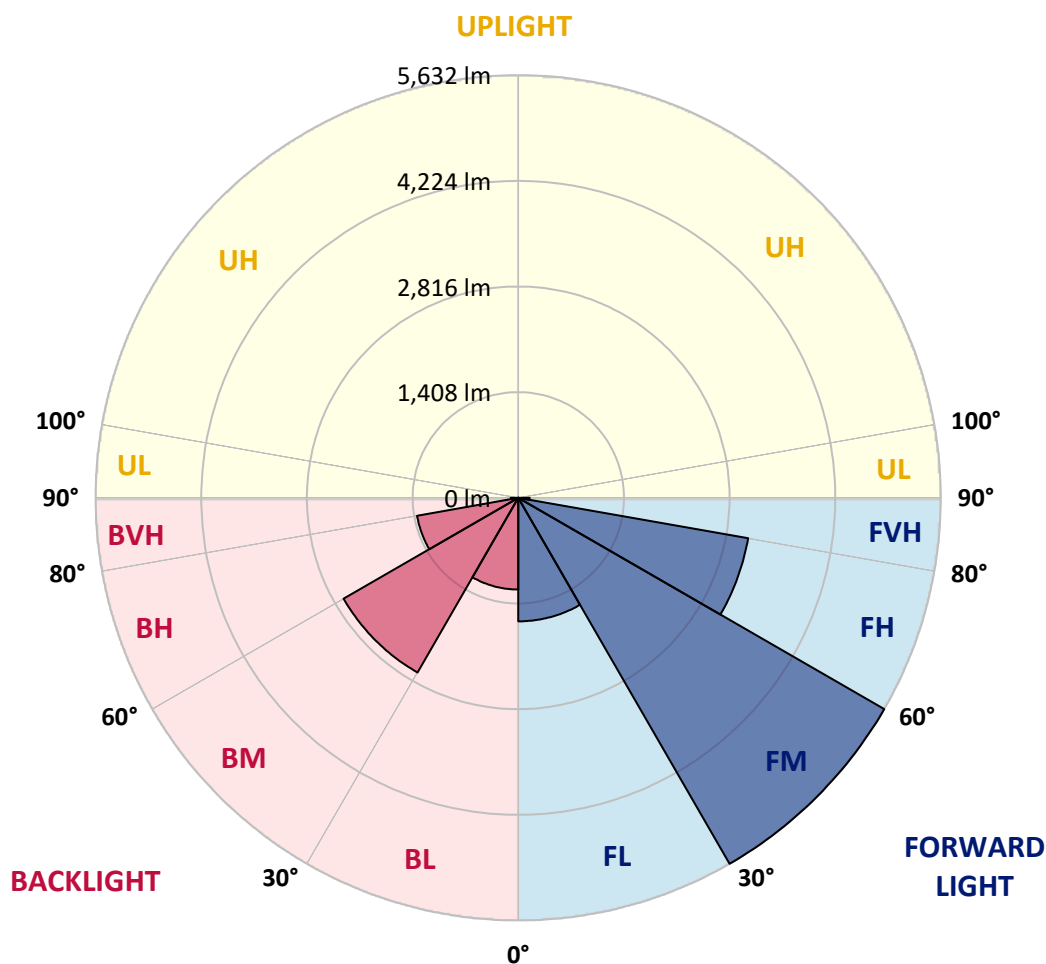
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1646.4	10.3			
FM	(30°-60°)	5632.2	35.4			
FH	(60°-80°)	3110.8	19.5			G2/5000
FVH	(80°-90°)	151.8	1.0			G2/225
BL	(0°-30°)	1222.6	7.7	B3/2500		
BM	(30°-60°)	2688.3	16.9	B3/5000		
BH	(60°-80°)	1369.7	8.6	B3/2500		G3/2500
BVH	(80°-90°)	99.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0
2.5°	3313.6	3307.6	3284.0	3286.9	3286.9	3284.0	3248.5	3233.7	3233.7	3230.8	3198.3
5°	3431.8	3422.9	3396.3	3390.4	3378.6	3363.8	3307.6	3275.1	3260.3	3257.4	3213.1
7.5°	3570.7	3558.9	3526.4	3508.6	3479.1	3440.7	3369.7	3319.5	3284.0	3281.0	3219.0
10°	3709.6	3697.8	3659.4	3626.9	3585.5	3523.4	3431.8	3357.9	3301.7	3295.8	3221.9
12.5°	3875.2	3863.3	3816.1	3774.7	3712.6	3629.8	3508.6	3408.1	3331.3	3322.4	3230.8
15°	4049.6	4031.8	3984.5	3937.2	3860.4	3754.0	3609.1	3476.1	3378.6	3363.8	3257.4
17.5°	4194.4	4170.8	4132.3	4085.0	3999.3	3875.2	3709.6	3544.1	3422.9	3411.1	3284.0
20°	4318.6	4300.8	4259.4	4215.1	4123.5	3987.5	3804.2	3612.1	3464.3	3449.5	3304.7
22.5°	4436.8	4413.1	4389.5	4357.0	4256.5	4105.7	3913.6	3694.9	3517.5	3499.8	3331.3
25°	4572.8	4546.2	4537.3	4519.6	4401.3	4247.6	4046.6	3798.3	3591.4	3570.7	3378.6
27.5°	4741.2	4711.7	4694.0	4694.0	4552.1	4392.5	4188.5	3919.5	3677.1	3659.4	3437.7
30°	4918.6	4883.1	4856.5	4856.5	4696.9	4537.3	4327.4	4040.7	3774.7	3754.0	3514.6
32.5°	5075.3	5039.8	5010.2	5007.3	4841.7	4682.1	4472.3	4173.7	3892.9	3866.3	3609.1
35°	5196.5	5163.9	5137.3	5143.2	4986.6	4829.9	4634.8	4351.1	4040.7	4011.1	3733.3
37.5°	5270.3	5258.5	5243.7	5264.4	5119.6	4971.8	4803.3	4522.5	4209.2	4182.6	3887.0
40°	5308.8	5299.9	5359.0	5385.6	5231.9	5098.9	4971.8	4699.9	4392.5	4362.9	4064.3
42.5°	5364.9	5438.8	5462.5	5456.6	5314.7	5196.5	5125.5	4892.0	4608.2	4581.6	4277.2
45°	5163.9	5146.2	5276.3	5347.2	5320.6	5258.5	5270.3	5122.6	4859.5	4832.9	4522.5
47.5°	4895.0	4871.3	4945.2	5119.6	5223.1	5282.2	5400.4	5362.0	5149.2	5125.5	4809.2
50°	4327.4	4359.9	4634.8	4868.3	5072.3	5276.3	5509.8	5619.1	5468.4	5444.7	5116.6
52.5°	3697.8	3730.3	4017.1	4555.0	4889.0	5231.9	5589.6	5876.3	5814.2	5787.6	5444.7
55°	3239.7	3310.6	3635.7	4025.9	4628.9	5093.0	5636.9	6139.4	6186.7	6163.0	5802.4
57.5°	2784.4	2837.7	3083.0	3428.8	4274.2	4850.6	5633.9	6384.7	6576.9	6553.2	6166.0
60°	2249.4	2317.4	2512.5	2884.9	3801.3	4560.9	5551.2	6576.9	6952.3	6934.5	6517.7
62.5°	1882.9	1903.6	2042.5	2364.7	3192.4	4194.4	5364.9	6680.3	7292.2	7280.4	6834.0
65°	1516.4	1519.3	1646.4	1915.4	2604.1	3739.2	5048.7	6641.9	7549.3	7555.3	7061.6
67.5°	1170.5	1185.3	1300.6	1504.5	2069.1	3148.0	4596.4	6381.8	7552.3	7567.1	6931.6
70°	809.9	821.7	996.1	1194.2	1599.1	2509.5	3984.5	5693.0	6931.6	6943.4	6213.3
72.5°	570.5	576.4	762.6	954.8	1250.3	1891.8	3006.1	4708.7	5908.8	5917.7	5226.0
75°	425.6	431.6	538.0	724.2	957.7	1309.5	2054.3	3606.2	4720.6	4720.6	4126.4
77.5°	301.5	304.5	348.8	499.5	638.5	883.8	1235.6	2361.8	3464.3	3470.2	3006.1
80°	204.0	206.9	227.6	337.0	399.0	478.9	671.0	1238.5	2184.4	2193.3	1909.5
82.5°	106.4	112.3	127.1	171.4	201.0	266.0	345.8	629.6	1209.0	1232.6	1146.9
85°	41.4	41.4	47.3	56.2	73.9	103.5	159.6	239.4	546.8	564.6	505.5
87.5°	14.8	14.8	17.7	17.7	20.7	23.6	26.6	35.5	62.1	62.1	59.1
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°	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0
2.5°	3186.4	3186.4	3171.7	3177.6	3174.6	3168.7	3162.8	3171.7	3162.8	3142.1	3139.2
5°	3192.4	3186.4	3162.8	3159.8	3151.0	3139.2	3124.4	3130.3	3115.5	3097.8	3094.8
7.5°	3195.3	3183.5	3151.0	3139.2	3121.4	3097.8	3074.1	3074.1	3053.4	3035.7	3032.7
10°	3189.4	3174.6	3130.3	3106.6	3074.1	3038.7	3006.1	2997.3	2973.6	2952.9	2952.9
12.5°	3192.4	3171.7	3115.5	3077.1	3032.7	2988.4	2947.0	2935.2	2914.5	2893.8	2890.9
15°	3210.1	3180.5	3109.6	3059.3	2994.3	2944.1	2899.7	2890.9	2873.1	2858.3	2858.3
17.5°	3227.8	3189.4	3100.7	3029.8	2950.0	2893.8	2852.4	2852.4	2840.6	2831.7	2831.7
20°	3236.7	3192.4	3083.0	2988.4	2896.8	2837.7	2799.2	2805.1	2802.2	2799.2	2799.2
22.5°	3257.4	3198.3	3068.2	2950.0	2840.6	2778.5	2743.1	2751.9	2749.0	2749.0	2751.9
25°	3289.9	3213.1	3056.4	2914.5	2787.4	2719.4	2681.0	2686.9	2686.9	2686.9	2686.9
27.5°	3334.2	3242.6	3053.4	2882.0	2734.2	2657.3	2610.0	2610.0	2598.2	2601.2	2604.1
30°	3402.2	3298.8	3059.3	2852.4	2678.0	2580.5	2524.3	2515.5	2512.5	2518.4	2521.4
32.5°	3485.0	3375.6	3094.8	2831.7	2618.9	2494.8	2423.8	2420.9	2412.0	2412.0	2412.0
35°	3588.4	3449.5	3127.3	2828.8	2559.8	2403.1	2326.3	2317.4	2296.7	2287.9	2287.9
37.5°	3721.5	3564.8	3165.8	2808.1	2509.5	2314.5	2222.8	2193.3	2169.6	2166.7	2166.7
40°	3884.0	3694.9	3221.9	2784.4	2456.3	2222.8	2101.6	2051.4	2054.3	2066.2	2066.2
42.5°	4076.2	3854.5	3292.9	2772.6	2379.5	2128.2	1959.8	1900.6	1921.3	1933.2	1936.1
45°	4300.8	4043.7	3372.7	2757.8	2308.5	2021.8	1809.0	1735.1	1744.0	1746.9	1749.9
47.5°	4560.9	4253.5	3455.4	2746.0	2228.7	1888.8	1643.5	1545.9	1543.0	1525.2	1531.2
50°	4832.9	4475.2	3541.2	2725.3	2131.2	1732.2	1469.1	1353.8	1330.1	1303.5	1306.5
52.5°	5122.6	4702.8	3621.0	2692.8	2010.0	1572.5	1303.5	1179.4	1132.1	1102.5	1108.5
55°	5441.8	4936.3	3697.8	2642.6	1882.9	1412.9	1155.8	1028.6	969.5	945.9	948.8
57.5°	5734.4	5161.0	3754.0	2580.5	1744.0	1268.1	1025.7	901.5	863.1	860.2	863.1
60°	6018.2	5350.2	3777.6	2494.8	1602.1	1135.1	904.5	809.9	783.3	798.1	801.0
62.5°	6257.6	5471.3	3765.8	2379.5	1457.3	1008.0	807.0	739.0	721.2	750.8	753.8
65°	6396.5	5509.8	3683.0	2214.0	1300.6	883.8	715.3	641.4	632.6	650.3	659.2
67.5°	6213.3	5270.3	3458.4	1986.4	1126.2	768.5	626.6	567.5	552.8	567.5	567.5
70°	5506.8	4566.8	2926.3	1625.7	934.1	656.2	543.9	502.5	490.7	502.5	499.5
72.5°	4587.5	3798.3	2305.6	1268.1	736.0	552.8	472.9	434.5	422.7	410.9	405.0
75°	3558.9	2884.9	1673.0	931.1	555.7	443.4	396.1	360.6	331.1	342.9	337.0
77.5°	2607.1	2024.8	1185.3	644.4	399.0	342.9	310.4	283.8	263.1	286.7	283.8
80°	1678.9	1309.5	792.2	431.6	274.9	239.4	227.6	212.8	233.5	304.5	310.4
82.5°	1025.7	830.6	472.9	280.8	180.3	159.6	147.8	147.8	239.4	263.1	266.0
85°	458.2	440.4	257.2	144.8	100.5	91.6	82.8	106.4	97.5	70.9	73.9
87.5°	73.9	76.9	56.2	50.3	38.4	38.4	29.6	20.7	14.8	8.9	8.9
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)