

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: P836030

Luminaire Tested: **ARCH3-130-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836030
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: ARCH3-130-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18824 lumens
Efficiency: N/A
Efficacy: 142.0 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): 132.6
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



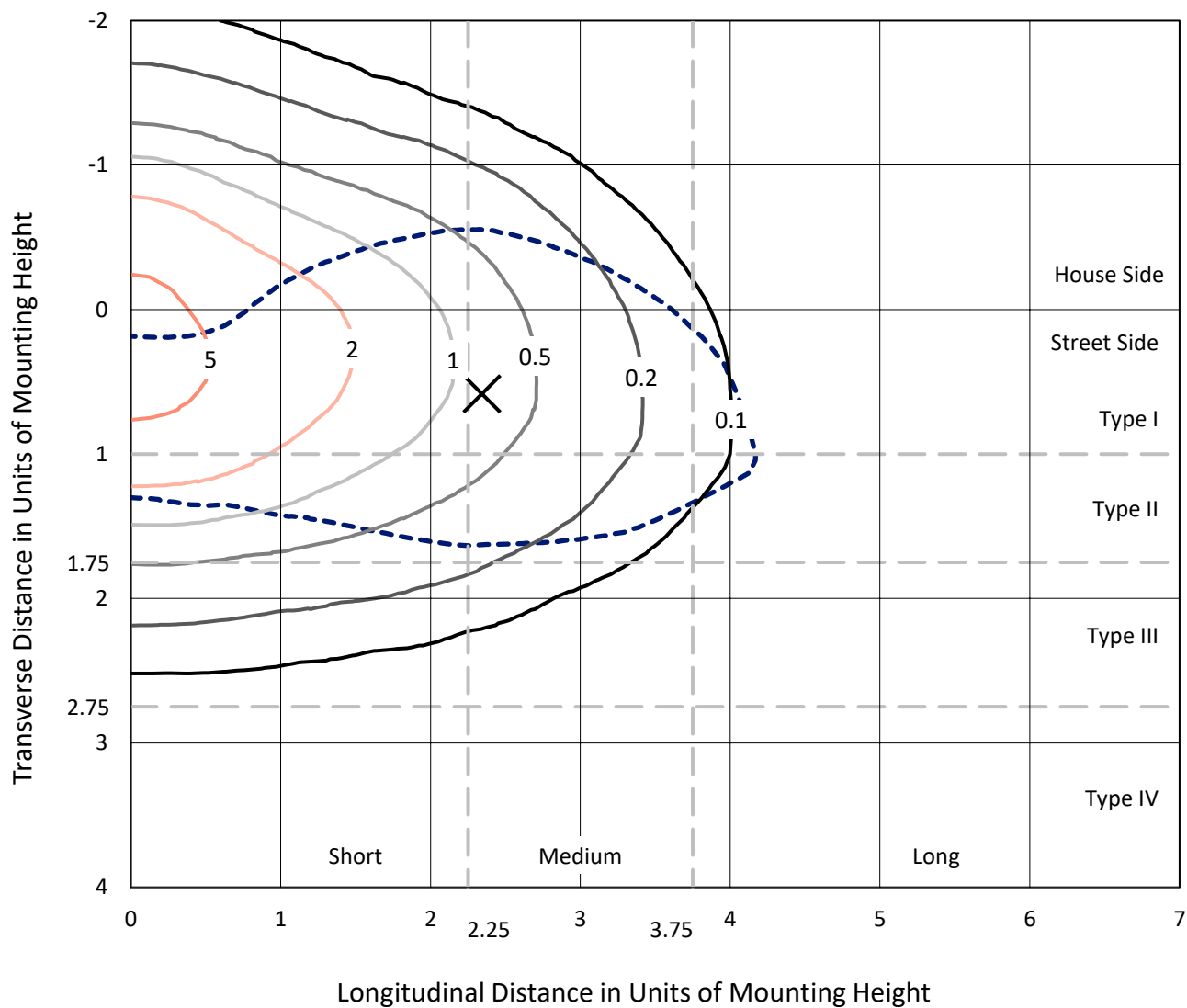
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Iso-Footcandle Lines of Horizontal Illumination

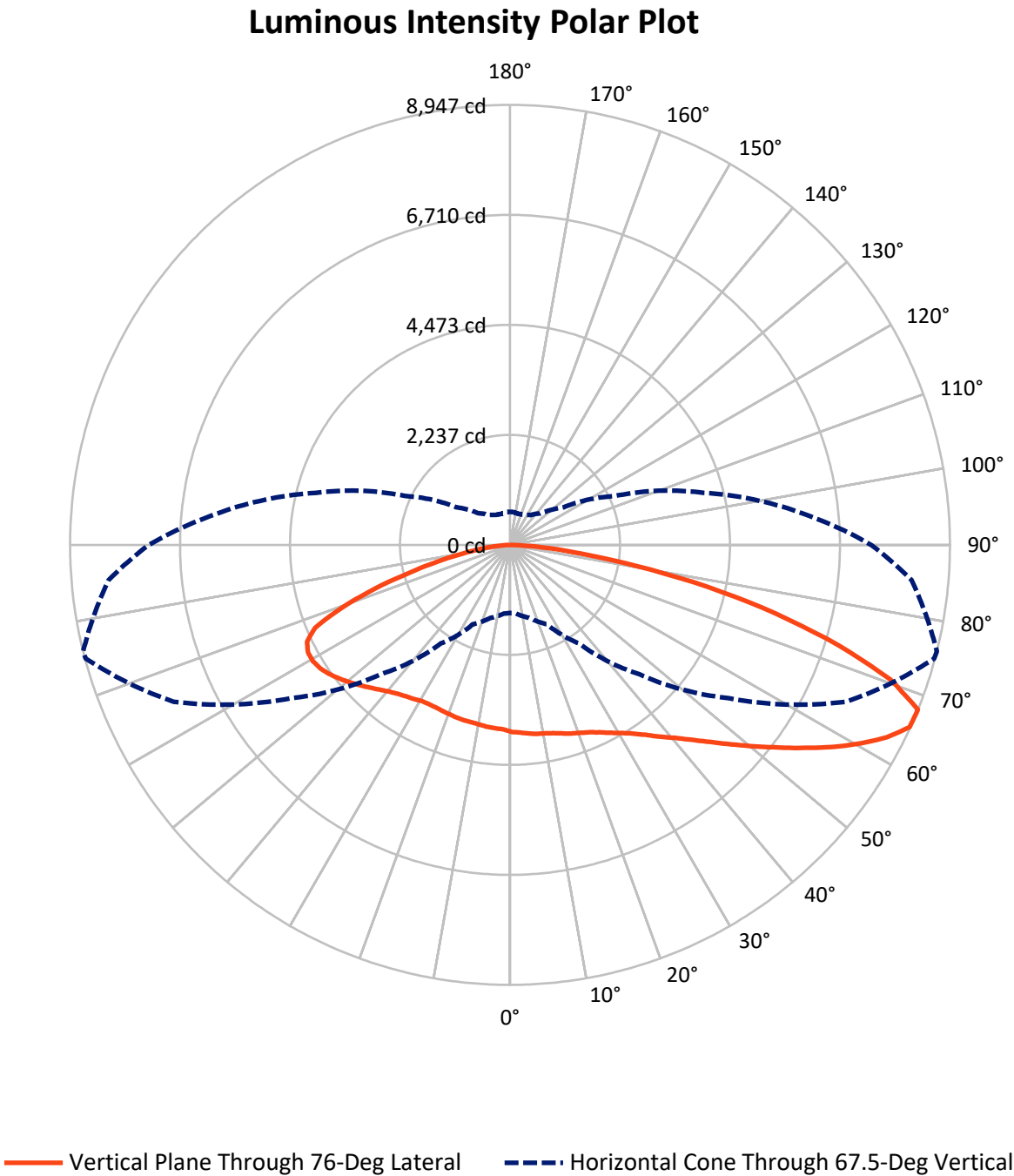
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6360.7	0.0	6360.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	12463.3	0.0	12463.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	18824.0	0.0	18824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.7	1.9
10°-20°	1120.9	6.0
20°-30°	1904.5	10.1
30°-40°	2709.9	14.4
40°-50°	3422.4	18.2
50°-60°	3705.4	19.7
60°-70°	3446.5	18.3
70°-80°	1851.1	9.8
80°-90°	296.6	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°	18824.0	100.0
0°-180°	18824.0	100.0

Coefficient of Utilization



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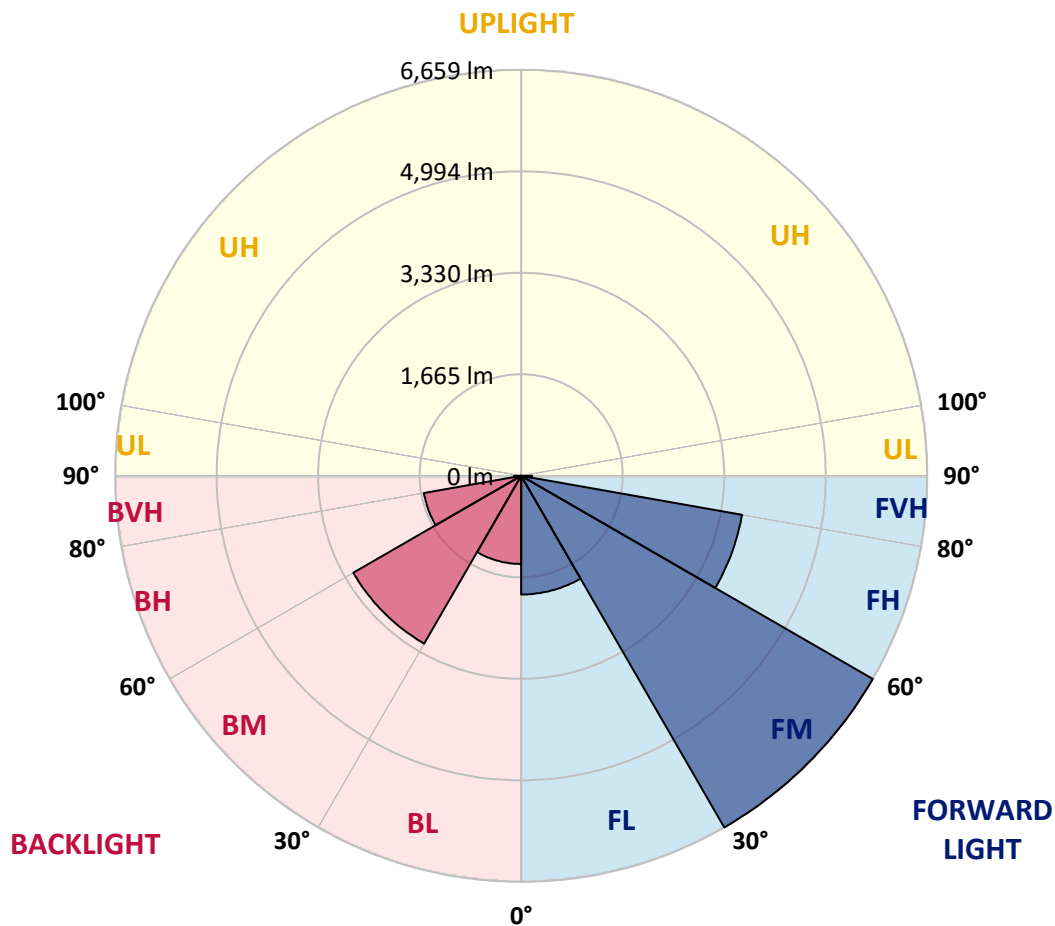
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1946.6	10.3			
FM	(30°-60°)	6659.2	35.4			
FH	(60°-80°)	3678.0	19.5			G2/5000
FVH	(80°-90°)	179.4	1.0			G2/225
BL	(0°-30°)	1445.5	7.7	B3/2500		
BM	(30°-60°)	3178.5	16.9	B3/5000		
BH	(60°-80°)	1619.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	117.2	0.6			G2/225
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°	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4
2.5°	3917.7	3910.7	3882.8	3886.3	3886.3	3882.8	3840.8	3823.4	3823.4	3819.9	3781.4
5°	4057.5	4047.0	4015.6	4008.6	3994.6	3977.1	3910.7	3872.3	3854.8	3851.3	3798.9
7.5°	4221.8	4207.8	4169.4	4148.4	4113.4	4068.0	3984.1	3924.7	3882.8	3879.3	3805.9
10°	4386.0	4372.1	4326.6	4288.2	4239.3	4165.9	4057.5	3970.2	3903.8	3896.8	3809.4
12.5°	4581.8	4567.8	4511.9	4462.9	4389.5	4291.7	4148.4	4029.6	3938.7	3928.2	3819.9
15°	4788.0	4767.0	4711.1	4655.2	4564.3	4438.5	4267.2	4110.0	3994.6	3977.1	3851.3
17.5°	4959.2	4931.2	4885.8	4829.9	4728.5	4581.8	4386.0	4190.3	4047.0	4033.1	3882.8
20°	5106.0	5085.0	5036.1	4983.7	4875.3	4714.6	4497.9	4270.7	4096.0	4078.5	3907.3
22.5°	5245.8	5217.8	5189.9	5151.4	5032.6	4854.4	4627.2	4368.6	4158.9	4137.9	3938.7
25°	5406.5	5375.1	5364.6	5343.6	5203.8	5022.1	4784.5	4490.9	4246.3	4221.8	3994.6
27.5°	5605.8	5570.8	5549.8	5549.8	5382.1	5193.4	4952.2	4634.2	4347.6	4326.6	4064.5
30°	5815.4	5773.5	5742.1	5742.1	5553.3	5364.6	5116.5	4777.5	4462.9	4438.5	4155.4
32.5°	6000.7	5958.7	5923.8	5920.3	5724.6	5535.9	5287.7	4934.7	4602.7	4571.3	4267.2
35°	6144.0	6105.5	6074.1	6081.1	5895.8	5710.6	5479.9	5144.4	4777.5	4742.5	4414.0
37.5°	6231.3	6217.4	6199.9	6224.3	6053.1	5878.4	5679.1	5347.1	4976.7	4945.2	4595.7
40°	6276.8	6266.3	6336.2	6367.6	6185.9	6028.6	5878.4	5556.8	5193.4	5158.4	4805.4
42.5°	6343.2	6430.5	6458.5	6451.5	6283.8	6144.0	6060.1	5784.0	5448.5	5417.0	5057.1
45°	6105.5	6084.5	6238.3	6322.2	6290.7	6217.4	6231.3	6056.6	5745.5	5714.1	5347.1
47.5°	5787.5	5759.5	5846.9	6053.1	6175.4	6245.3	6385.1	6339.7	6088.0	6060.1	5686.1
50°	5116.5	5154.9	5479.9	5756.0	5997.2	6238.3	6514.4	6643.7	6465.5	6437.5	6049.6
52.5°	4372.1	4410.5	4749.5	5385.6	5780.5	6185.9	6608.8	6947.8	6874.4	6842.9	6437.5
55°	3830.4	3914.2	4298.7	4760.0	5472.9	6021.6	6664.7	7258.8	7314.7	7286.8	6860.4
57.5°	3292.2	3355.1	3645.1	4054.0	5053.6	5735.1	6661.2	7548.9	7776.1	7748.1	7290.3
60°	2659.6	2740.0	2970.6	3411.0	4494.4	5392.6	6563.3	7776.1	8219.9	8198.9	7706.2
62.5°	2226.2	2250.7	2414.9	2795.9	3774.4	4959.2	6343.2	7898.4	8621.8	8607.8	8080.1
65°	1792.9	1796.4	1946.6	2264.7	3079.0	4421.0	5969.2	7852.9	8925.9	8932.9	8349.2
67.5°	1384.0	1401.4	1537.7	1778.9	2446.4	3722.0	5434.5	7545.4	8929.4	8946.8	8195.4
70°	957.6	971.6	1177.8	1411.9	1890.7	2967.1	4711.1	6731.1	8195.4	8209.4	7346.2
72.5°	674.5	681.5	901.7	1128.8	1478.3	2236.7	3554.3	5567.3	6986.2	6996.7	6178.9
75°	503.3	510.2	636.1	856.2	1132.3	1548.2	2428.9	4263.7	5581.3	5581.3	4878.8
77.5°	356.5	360.0	412.4	590.6	754.9	1045.0	1460.9	2792.4	4096.0	4103.0	3554.3
80°	241.1	244.6	269.1	398.4	471.8	566.2	793.3	1464.3	2582.7	2593.2	2257.7
82.5°	125.8	132.8	150.3	202.7	237.7	314.5	408.9	744.4	1429.4	1457.4	1356.0
85°	48.9	48.9	55.9	66.4	87.4	122.3	188.7	283.1	646.5	667.5	597.6
87.5°	17.5	17.5	21.0	21.0	24.5	28.0	31.5	41.9	73.4	73.4	69.9
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°	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4	3802.4
2.5°	3767.5	3767.5	3750.0	3757.0	3753.5	3746.5	3739.5	3750.0	3739.5	3715.0	3711.5
5°	3774.4	3767.5	3739.5	3736.0	3725.5	3711.5	3694.1	3701.1	3683.6	3662.6	3659.1
7.5°	3777.9	3764.0	3725.5	3711.5	3690.6	3662.6	3634.7	3634.7	3610.2	3589.2	3585.7
10°	3771.0	3753.5	3701.1	3673.1	3634.7	3592.7	3554.3	3543.8	3515.8	3491.4	3491.4
12.5°	3774.4	3750.0	3683.6	3638.1	3585.7	3533.3	3484.4	3470.4	3445.9	3421.5	3418.0
15°	3795.4	3760.5	3676.6	3617.2	3540.3	3480.9	3428.5	3418.0	3397.0	3379.5	3379.5
17.5°	3816.4	3771.0	3666.1	3582.2	3487.9	3421.5	3372.5	3372.5	3358.6	3348.1	3348.1
20°	3826.9	3774.4	3645.1	3533.3	3425.0	3355.1	3309.6	3316.6	3313.1	3309.6	3309.6
22.5°	3851.3	3781.4	3627.7	3487.9	3358.6	3285.2	3243.2	3253.7	3250.2	3250.2	3253.7
25°	3889.8	3798.9	3613.7	3445.9	3295.7	3215.3	3169.8	3176.8	3176.8	3176.8	3176.8
27.5°	3942.2	3833.9	3610.2	3407.5	3232.7	3141.9	3086.0	3086.0	3072.0	3075.5	3079.0
30°	4022.6	3900.3	3617.2	3372.5	3166.3	3051.0	2984.6	2974.1	2970.6	2977.6	2981.1
32.5°	4120.4	3991.1	3659.1	3348.1	3096.4	2949.7	2865.8	2862.3	2851.8	2851.8	2851.8
35°	4242.8	4078.5	3697.6	3344.6	3026.5	2841.3	2750.5	2740.0	2715.5	2705.0	2705.0
37.5°	4400.0	4214.8	3743.0	3320.1	2967.1	2736.5	2628.1	2593.2	2565.2	2561.7	2561.7
40°	4592.2	4368.6	3809.4	3292.2	2904.2	2628.1	2484.8	2425.4	2428.9	2442.9	2442.9
42.5°	4819.4	4557.3	3893.3	3278.2	2813.4	2516.3	2317.1	2247.2	2271.7	2285.6	2289.1
45°	5085.0	4781.0	3987.6	3260.7	2729.5	2390.5	2138.9	2051.5	2062.0	2065.5	2069.0
47.5°	5392.6	5029.1	4085.5	3246.7	2635.1	2233.2	1943.1	1827.8	1824.3	1803.3	1810.3
50°	5714.1	5291.2	4186.8	3222.3	2519.8	2048.0	1736.9	1600.6	1572.7	1541.2	1544.7
52.5°	6056.6	5560.3	4281.2	3183.8	2376.5	1859.3	1541.2	1394.4	1338.5	1303.6	1310.6
55°	6434.0	5836.4	4372.1	3124.4	2226.2	1670.5	1366.5	1216.2	1146.3	1118.4	1121.8
57.5°	6780.0	6102.0	4438.5	3051.0	2062.0	1499.3	1212.7	1065.9	1020.5	1017.0	1020.5
60°	7115.5	6325.7	4466.4	2949.7	1894.2	1342.0	1069.4	957.6	926.1	943.6	947.1
62.5°	7398.6	6469.0	4452.5	2813.4	1723.0	1191.7	954.1	873.7	852.7	887.7	891.2
65°	7562.9	6514.4	4354.6	2617.6	1537.7	1045.0	845.8	758.4	747.9	768.9	779.4
67.5°	7346.2	6231.3	4089.0	2348.5	1331.5	908.7	740.9	671.0	653.5	671.0	671.0
70°	6510.9	5399.6	3459.9	1922.2	1104.4	775.9	643.1	594.1	580.1	594.1	590.6
72.5°	5424.0	4490.9	2726.0	1499.3	870.2	653.5	559.2	513.7	499.8	485.8	478.8
75°	4207.8	3411.0	1978.1	1100.9	657.0	524.2	468.3	426.4	391.4	405.4	398.4
77.5°	3082.5	2394.0	1401.4	761.9	471.8	405.4	367.0	335.5	311.0	339.0	335.5
80°	1985.1	1548.2	936.6	510.2	325.0	283.1	269.1	251.6	276.1	360.0	367.0
82.5°	1212.7	982.1	559.2	332.0	213.2	188.7	174.7	174.7	283.1	311.0	314.5
85°	541.7	520.7	304.1	171.2	118.8	108.3	97.9	125.8	115.3	83.9	87.4
87.5°	87.4	90.9	66.4	59.4	45.4	45.4	34.9	24.5	17.5	10.5	10.5
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)