

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: P841083

Luminaire Tested: **ARCH4-130-727-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21328 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

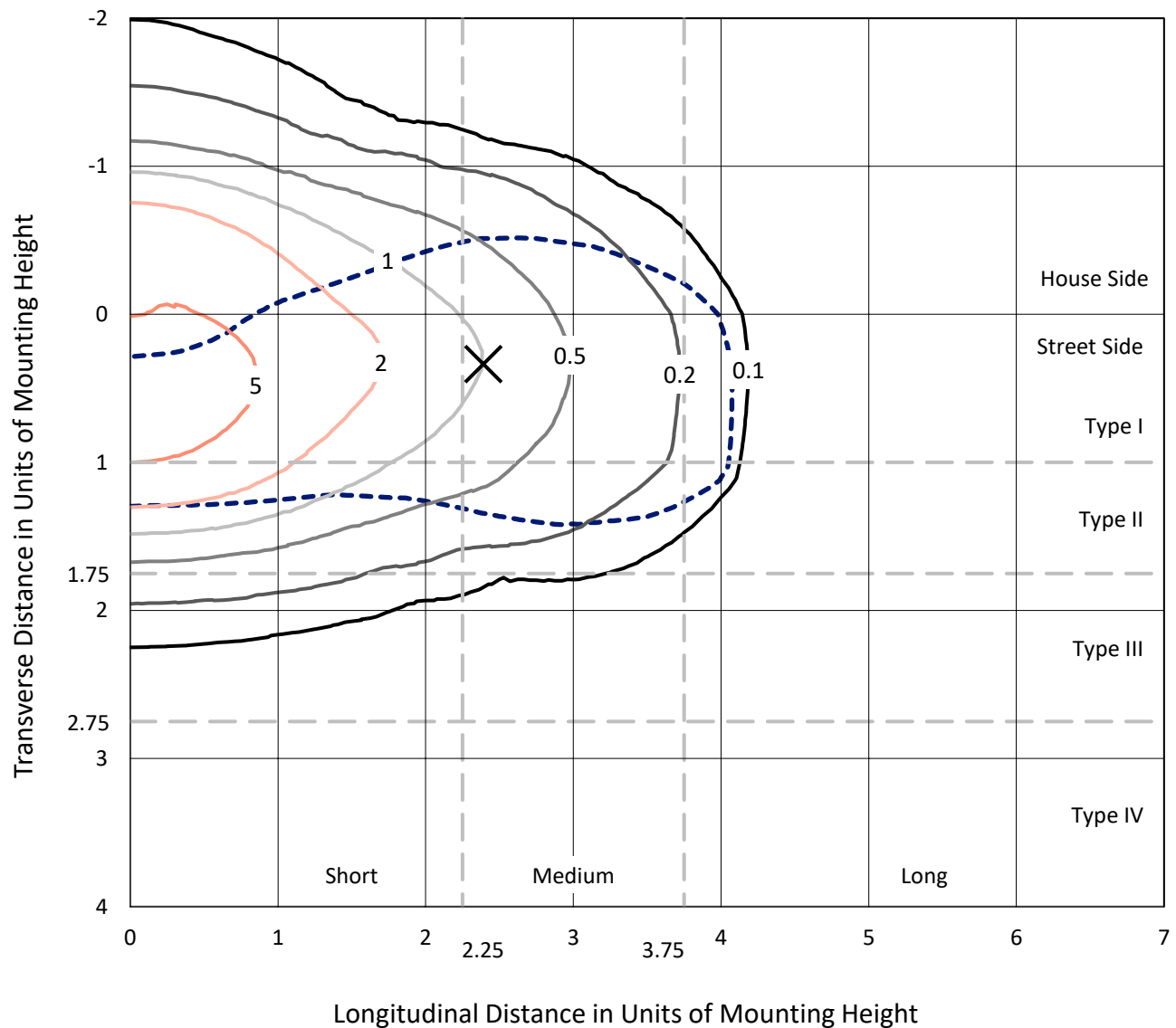
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

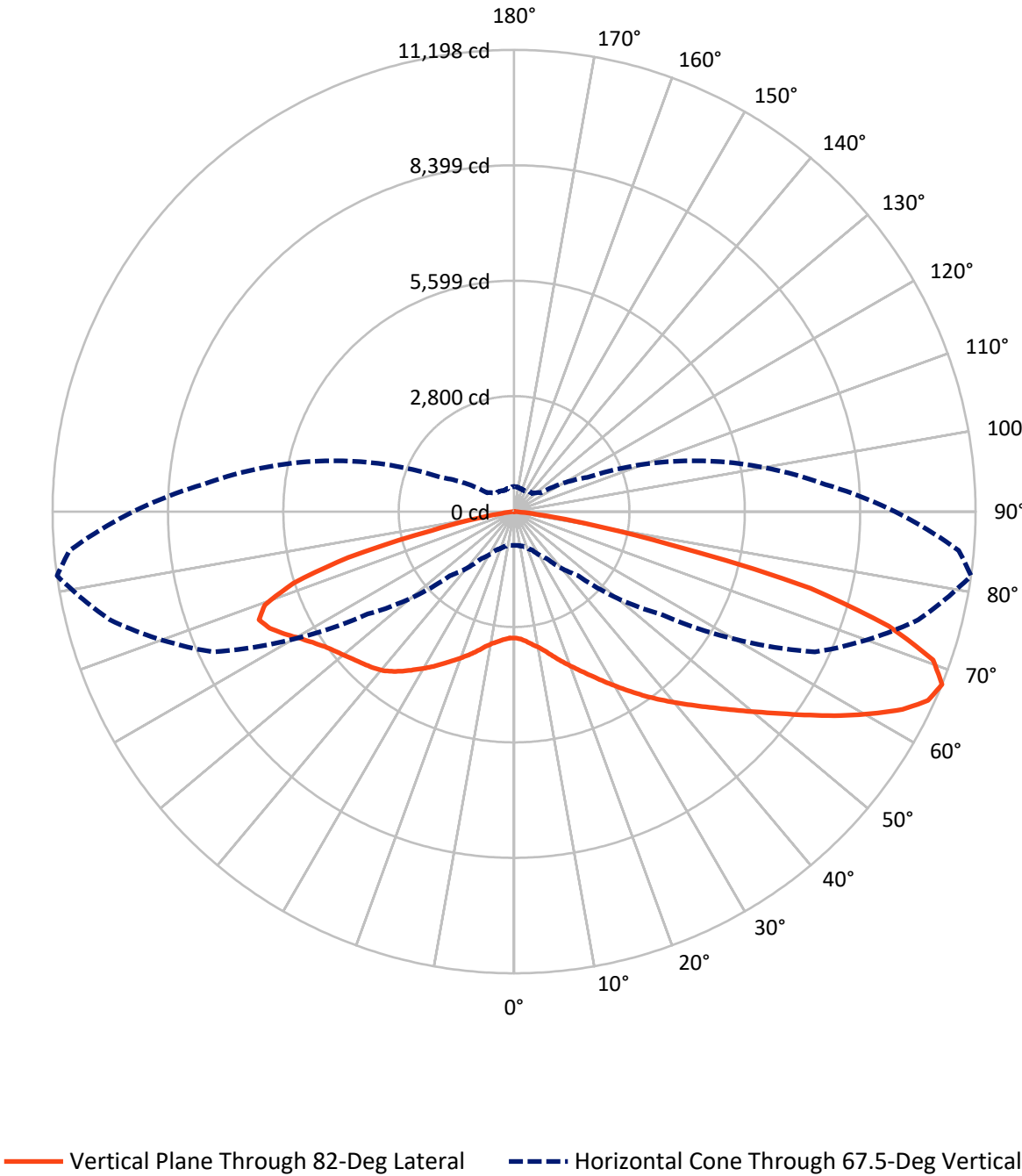
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	6495.2	0.0	6495.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14832.8	0.0	14832.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	21328.0	0.0	21328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	1.5
10°-20°	1141.3	5.4
20°-30°	2293.7	10.8
30°-40°	3603.1	16.9
40°-50°	4389.3	20.6
50°-60°	4147.4	19.4
60°-70°	3424.8	16.1
70°-80°	1864.9	8.7
80°-90°	146.6	0.7
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°	21328.0	100.0
0°-180°	21328.0	100.0

Coefficient of Utilization



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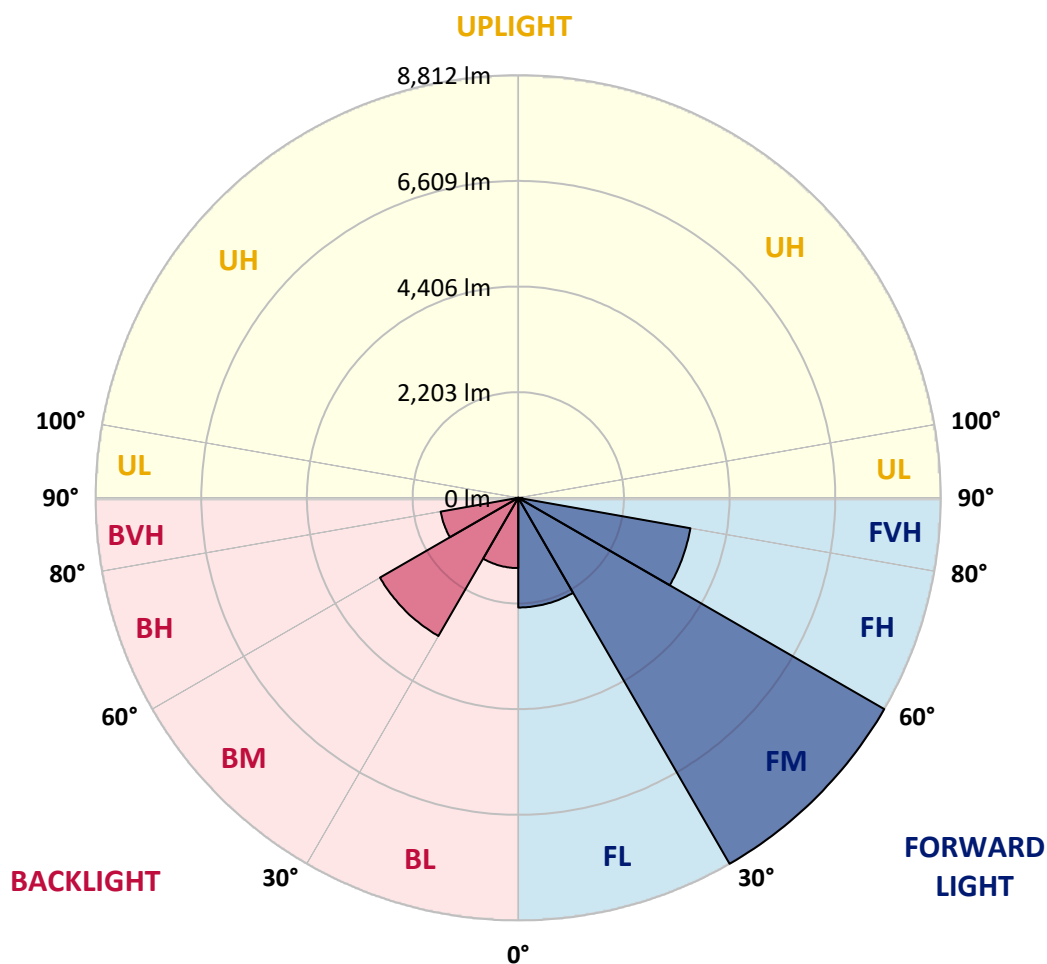
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2287.1	10.7			
FM	(30°-60°)	8811.5	41.3			
FH	(60°-80°)	3645.7	17.1			G2/5000
FVH	(80°-90°)	88.4	0.4			G1/100
BL	(0°-30°)	1464.7	6.9	B3/2500		
BM	(30°-60°)	3328.3	15.6	B3/5000		
BH	(60°-80°)	1644.0	7.7	B3/2500		G3/2500
BVH	(80°-90°)	58.2	0.3			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°	82°	85°
0°	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9
2.5°	3205.2	3205.2	3230.0	3230.0	3208.3	3174.3	3165.0	3127.8	3093.8	3093.8	3096.9
5°	3511.8	3508.7	3527.3	3502.5	3449.9	3381.8	3335.3	3254.8	3186.7	3165.0	3161.9
7.5°	3886.6	3883.5	3892.7	3852.5	3753.4	3641.9	3549.0	3418.9	3307.4	3261.0	3248.6
10°	4304.6	4301.5	4292.2	4224.1	4090.9	3917.5	3778.2	3598.5	3431.3	3357.0	3341.5
12.5°	4784.6	4778.5	4756.8	4657.7	4475.0	4252.0	4050.7	3818.4	3595.5	3493.3	3459.2
15°	5320.4	5311.1	5270.9	5150.1	4905.4	4623.6	4363.5	4066.2	3793.7	3660.5	3614.0
17.5°	5884.0	5884.0	5822.1	5642.5	5370.0	5020.0	4697.9	4320.1	4001.1	3837.0	3781.3
20°	6456.9	6453.9	6376.4	6159.6	5837.6	5435.0	5026.2	4611.2	4214.8	4016.6	3948.5
22.5°	7060.8	7054.6	6958.6	6710.9	6326.9	5871.6	5394.7	4899.2	4450.2	4211.7	4125.0
25°	7754.5	7745.2	7627.6	7324.1	6868.8	6354.8	5809.7	5236.8	4719.6	4428.5	4326.3
27.5°	8491.6	8479.2	8339.8	7986.8	7488.2	6868.8	6268.0	5627.0	5016.9	4670.1	4555.5
30°	9148.1	9138.8	8987.1	8624.7	8051.8	7379.8	6704.7	6017.2	5329.7	4927.1	4784.6
32.5°	9643.6	9643.6	9507.4	9151.2	8556.6	7869.1	7144.5	6385.7	5654.9	5202.7	5035.5
35°	9944.0	9953.3	9835.6	9550.7	8990.2	8330.5	7599.7	6819.3	6001.7	5496.9	5317.3
37.5°	9987.4	10018.3	9950.2	9758.2	9290.6	8714.6	8045.6	7237.4	6360.9	5794.2	5592.9
40°	9786.1	9807.7	9810.8	9736.5	9414.4	8990.2	8438.9	7680.2	6741.9	6107.0	5874.7
42.5°	9383.5	9399.0	9426.8	9448.5	9324.6	9111.0	8739.3	8092.1	7147.5	6426.0	6153.5
45°	8863.2	8860.1	8906.6	8999.5	8993.3	9042.8	8906.6	8466.8	7568.7	6788.3	6463.1
47.5°	8085.9	8070.4	8234.5	8445.1	8550.4	8782.7	8909.7	8761.0	8027.1	7187.8	6816.2
50°	6868.8	6853.3	7212.6	7708.1	8017.8	8370.8	8739.3	8937.5	8507.1	7636.9	7200.2
52.5°	5388.5	5373.0	5828.3	6695.4	7370.5	7884.6	8395.6	8977.8	8962.3	8138.5	7633.8
55°	4007.3	3994.9	4437.8	5376.1	6469.3	7321.0	7974.4	8872.5	9389.7	8714.6	8160.2
57.5°	2824.3	2818.1	3202.2	3979.5	5311.1	6633.5	7568.7	8668.1	9783.0	9340.1	8754.8
60°	1982.0	1972.7	2251.4	2852.2	4016.6	5596.0	7166.1	8395.6	10077.2	9956.4	9386.6
62.5°	1334.7	1328.6	1526.8	2028.4	2852.2	4307.7	6556.0	8212.9	10244.4	10575.8	10024.5
65°	1012.7	1009.6	1099.4	1375.0	2019.2	3093.8	5586.7	8191.2	10266.1	11040.3	10566.5
67.5°	817.6	820.7	870.2	1028.2	1396.7	2198.8	4332.5	8054.9	10151.5	11198.2	10829.7
70°	668.9	668.9	690.6	795.9	1031.3	1483.4	3025.6	7435.6	9832.5	10786.4	10516.9
72.5°	511.0	514.1	582.2	644.1	777.3	1040.5	1938.6	6153.5	9080.0	9510.4	9306.1
75°	405.7	402.6	442.9	529.6	603.9	743.2	1189.2	4413.0	7726.7	7432.5	7302.4
77.5°	291.1	288.0	319.0	393.3	458.3	526.5	709.2	2226.6	4202.4	3861.8	3765.8
80°	198.2	192.0	219.9	272.5	303.5	309.7	346.8	854.7	1833.3	1728.0	1706.4
82.5°	102.2	102.2	117.7	154.8	157.9	161.0	154.8	275.6	607.0	566.7	542.0
85°	40.3	40.3	43.4	52.6	52.6	55.7	55.7	71.2	65.0	61.9	58.8
87.5°	3.1	3.1	6.2	6.2	9.3	9.3	9.3	12.4	15.5	15.5	15.5
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°	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9
2.5°	3090.7	3078.3	3038.0	3028.7	3022.5	3013.2	3016.3	2994.7	2985.4	2988.5	2976.1
5°	3146.4	3124.7	3075.2	3053.5	3047.3	3038.0	3047.3	3031.8	3016.3	3022.5	3016.3
7.5°	3223.8	3192.9	3130.9	3109.2	3106.1	3096.9	3109.2	3096.9	3084.5	3090.7	3078.3
10°	3304.3	3264.1	3196.0	3174.3	3174.3	3171.2	3183.6	3165.0	3152.6	3155.7	3149.5
12.5°	3422.0	3369.4	3295.1	3276.5	3267.2	3276.5	3279.6	3254.8	3233.1	3236.2	3226.9
15°	3564.5	3505.6	3425.1	3397.3	3391.1	3388.0	3375.6	3344.6	3316.7	3313.6	3304.3
17.5°	3719.3	3645.0	3549.0	3521.1	3493.3	3484.0	3453.0	3412.7	3369.4	3369.4	3357.0
20°	3868.0	3784.4	3669.8	3629.5	3589.3	3552.1	3499.4	3434.4	3378.7	3369.4	3357.0
22.5°	4029.0	3929.9	3796.7	3737.9	3666.7	3592.4	3502.5	3415.8	3344.6	3329.1	3319.8
25°	4208.6	4084.8	3926.8	3840.1	3725.5	3610.9	3477.8	3366.3	3282.7	3257.9	3251.7
27.5°	4406.8	4258.2	4066.2	3939.2	3772.0	3592.4	3422.0	3288.9	3186.7	3155.7	3146.4
30°	4608.1	4431.6	4193.1	4007.3	3772.0	3533.5	3319.8	3165.0	3047.3	3004.0	2997.8
32.5°	4809.4	4611.2	4307.7	4044.5	3734.8	3434.4	3186.7	3004.0	2870.8	2818.1	2830.5
35°	5051.0	4809.4	4413.0	4060.0	3672.9	3313.6	3034.9	2821.2	2685.0	2638.5	2647.8
37.5°	5301.8	5007.6	4496.6	4047.6	3586.2	3177.4	2864.6	2657.1	2486.8	2406.3	2415.5
40°	5518.6	5187.2	4555.5	4004.2	3474.7	3022.5	2697.4	2424.8	2189.5	2112.1	2102.8
42.5°	5723.0	5320.4	4586.4	3939.2	3347.7	2842.9	2458.9	2109.0	1873.6	1777.6	1780.7
45°	5936.7	5450.5	4574.1	3852.5	3189.8	2632.3	2152.3	1799.3	1591.8	1505.1	1508.2
47.5°	6181.3	5589.8	4561.7	3759.6	2997.8	2359.8	1858.1	1526.8	1347.1	1285.2	1279.0
50°	6441.5	5744.7	4546.2	3645.0	2784.1	2056.3	1567.0	1272.8	1121.1	1080.8	1071.5
52.5°	6735.7	5911.9	4536.9	3508.7	2527.0	1734.2	1306.9	1049.8	947.6	919.8	916.7
55°	7088.7	6107.0	4549.3	3344.6	2217.4	1430.7	1087.0	904.3	836.2	820.7	817.6
57.5°	7519.2	6357.8	4586.4	3152.6	1892.2	1167.5	926.0	814.5	771.1	758.7	758.7
60°	7986.8	6642.8	4654.6	2935.8	1567.0	963.1	820.7	743.2	724.7	740.1	740.1
62.5°	8491.6	6977.2	4775.4	2672.6	1263.5	814.5	737.1	684.4	672.0	703.0	706.1
65°	8959.2	7302.4	4852.8	2356.7	1003.4	706.1	672.0	625.6	631.8	662.7	659.6
67.5°	9247.2	7571.8	4744.4	1960.3	795.9	625.6	603.9	563.6	579.1	603.9	607.0
70°	9070.7	7420.1	4208.6	1480.3	622.5	545.0	529.6	504.8	517.2	548.1	560.5
72.5°	8206.7	6645.9	3273.4	1000.3	501.7	458.3	464.5	452.1	467.6	495.5	523.4
75°	6661.3	5023.1	2195.7	641.0	396.4	390.2	399.5	390.2	396.4	424.3	439.8
77.5°	3477.8	2449.6	1093.2	399.5	294.2	303.5	319.0	322.1	340.7	346.8	353.0
80°	1622.8	1102.5	455.2	223.0	195.1	213.7	244.7	247.7	253.9	263.2	266.3
82.5°	529.6	331.4	210.6	120.8	111.5	120.8	157.9	188.9	192.0	210.6	210.6
85°	55.7	34.1	46.5	49.5	43.4	52.6	71.2	68.1	31.0	18.6	18.6
87.5°	15.5	12.4	15.5	15.5	12.4	12.4	9.3	3.1	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)