

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: P841020

Luminaire Tested: **ARCH4-120-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841020
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: ARCH4-120-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20588 lumens
Efficiency: N/A
Efficacy: 168.8 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

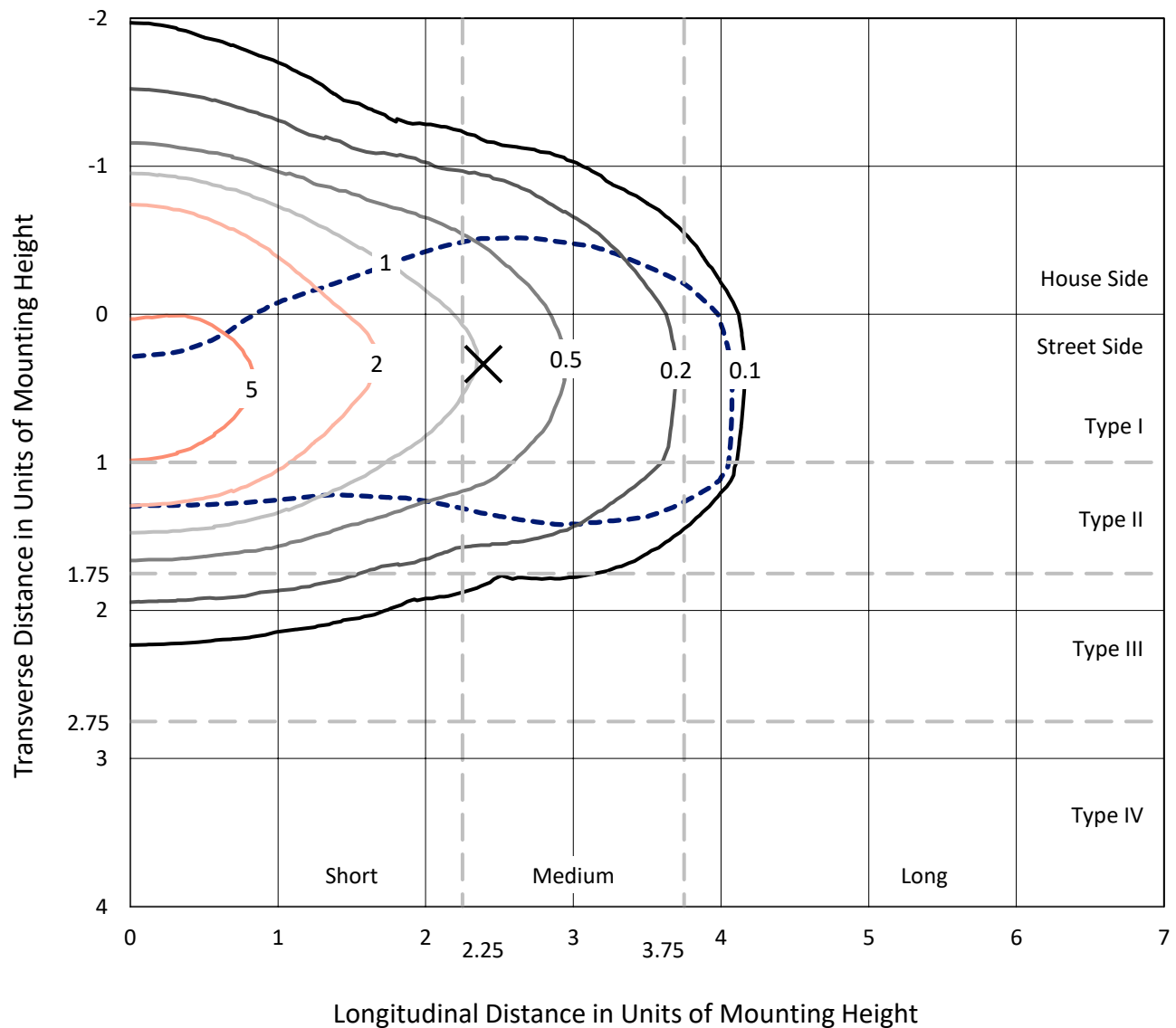
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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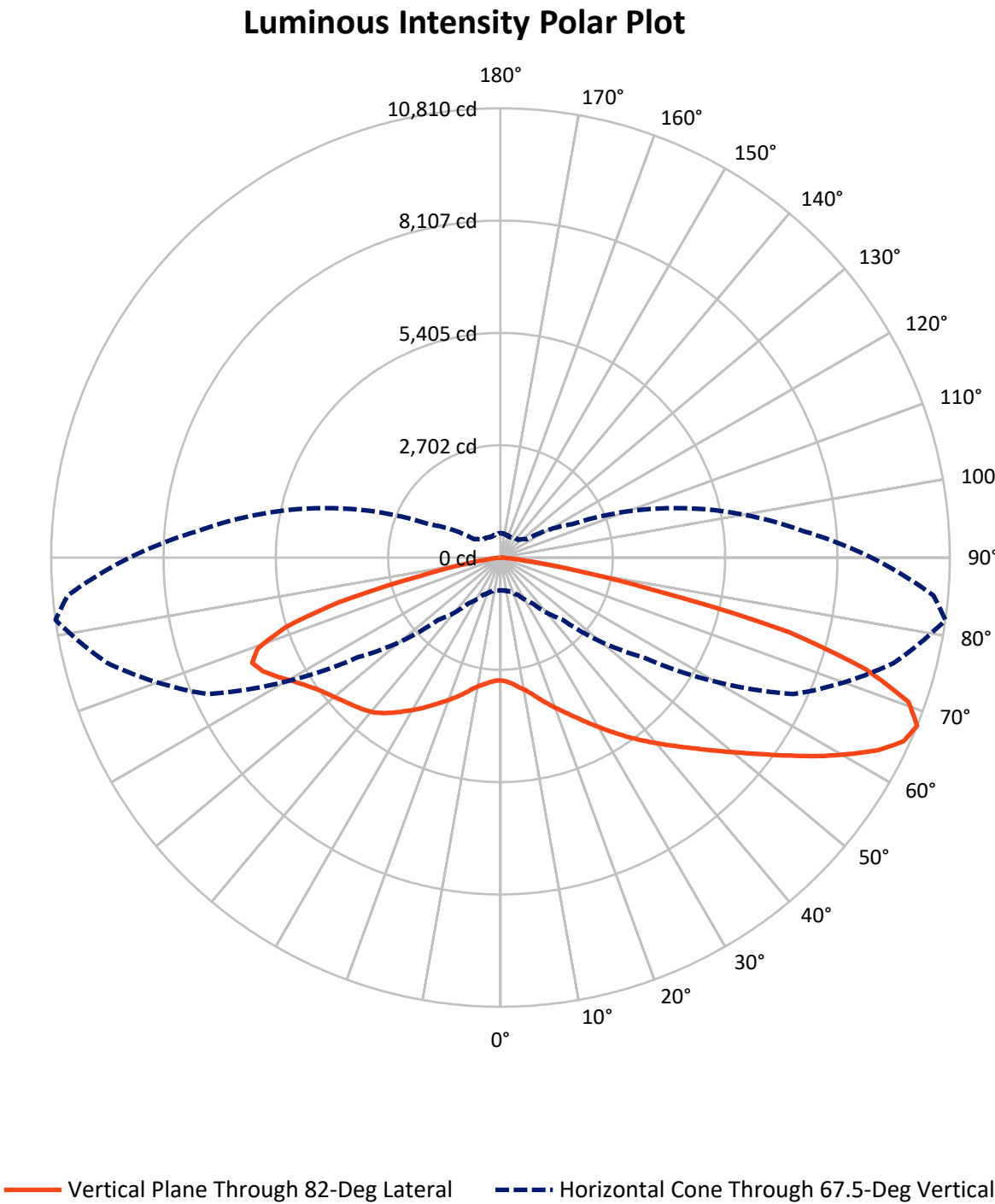
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6269.9	0.0	6269.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14318.1	0.0	14318.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	20588.0	0.0	20588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	1.5
10°-20°	1101.7	5.4
20°-30°	2214.1	10.8
30°-40°	3478.1	16.9
40°-50°	4237.0	20.6
50°-60°	4003.5	19.4
60°-70°	3305.9	16.1
70°-80°	1800.2	8.7
80°-90°	141.5	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°	20588.0	100.0
0°-180°	20588.0	100.0

Coefficient of Utilization



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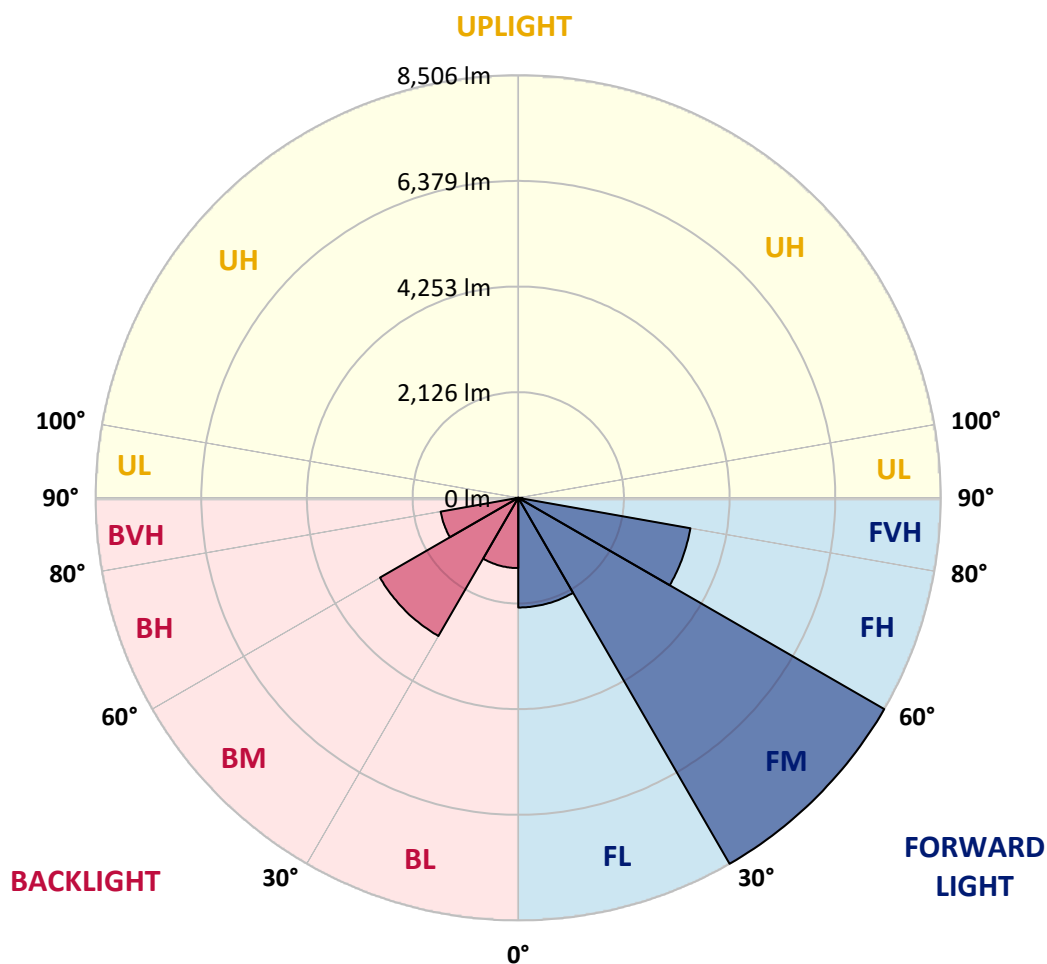
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2207.8	10.7			
FM	(30°-60°)	8505.8	41.3			
FH	(60°-80°)	3519.2	17.1			G2/5000
FVH	(80°-90°)	85.3	0.4			G1/100
BL	(0°-30°)	1413.9	6.9	B3/2500		
BM	(30°-60°)	3212.8	15.6	B3/5000		
BH	(60°-80°)	1586.9	7.7	B3/2500		G3/2500
BVH	(80°-90°)	56.2	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°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2.5°	3094.0	3094.0	3118.0	3118.0	3097.0	3064.1	3055.2	3019.3	2986.4	2986.4	2989.4
5°	3390.0	3387.0	3404.9	3381.0	3330.2	3264.4	3219.6	3141.9	3076.1	3055.2	3052.2
7.5°	3751.7	3748.7	3757.7	3718.8	3623.2	3515.5	3425.9	3300.3	3192.7	3147.8	3135.9
10°	4155.3	4152.3	4143.3	4077.6	3949.0	3781.6	3647.1	3473.7	3312.3	3240.5	3225.6
12.5°	4618.6	4612.7	4591.7	4496.1	4319.7	4104.5	3910.1	3685.9	3470.7	3372.1	3339.2
15°	5135.8	5126.8	5088.0	4971.4	4735.2	4463.2	4212.1	3925.1	3662.0	3533.5	3488.6
17.5°	5679.9	5679.9	5620.1	5446.7	5183.6	4845.8	4534.9	4170.2	3862.3	3703.9	3650.1
20°	6232.9	6229.9	6155.2	5945.9	5635.0	5246.4	4851.8	4451.2	4068.6	3877.3	3811.5
22.5°	6815.9	6809.9	6717.2	6478.0	6107.4	5667.9	5207.5	4729.2	4295.8	4065.6	3981.9
25°	7485.5	7476.5	7362.9	7070.0	6630.5	6134.3	5608.1	5055.1	4555.9	4274.9	4176.2
27.5°	8197.0	8185.0	8050.5	7709.7	7228.4	6630.5	6050.6	5431.8	4842.8	4508.0	4397.4
30°	8830.7	8821.7	8675.3	8325.5	7772.5	7123.8	6472.1	5808.4	5144.8	4756.1	4618.6
32.5°	9309.0	9309.0	9177.5	8833.7	8259.7	7596.1	6896.6	6164.2	5458.7	5022.2	4860.8
35°	9599.0	9608.0	9494.4	9219.3	8678.3	8041.5	7336.0	6582.7	5793.5	5306.2	5132.8
37.5°	9640.8	9670.7	9605.0	9419.6	8968.2	8412.2	7766.5	6986.2	6140.2	5593.2	5398.9
40°	9446.5	9467.5	9470.4	9398.7	9087.8	8678.3	8146.1	7413.7	6507.9	5895.1	5670.9
42.5°	9057.9	9072.9	9099.8	9120.7	9001.1	8794.8	8436.1	7811.3	6899.6	6203.0	5940.0
45°	8555.7	8552.7	8597.5	8687.2	8681.2	8729.1	8597.5	8173.0	7306.1	6552.8	6238.9
47.5°	7805.3	7790.4	7948.8	8152.1	8253.8	8478.0	8600.5	8457.0	7748.5	6938.4	6579.7
50°	6630.5	6615.6	6962.3	7440.6	7739.6	8080.4	8436.1	8627.4	8211.9	7371.9	6950.4
52.5°	5201.6	5186.6	5626.1	6463.1	7114.8	7611.0	8104.3	8666.3	8651.3	7856.2	7368.9
55°	3868.3	3856.3	4283.8	5189.6	6244.9	7067.0	7697.7	8564.7	9063.9	8412.2	7877.1
57.5°	2726.3	2720.4	3091.0	3841.4	5126.8	6403.3	7306.1	8367.4	9443.5	9016.1	8451.1
60°	1913.2	1904.3	2173.3	2753.2	3877.3	5401.9	6917.5	8104.3	9727.5	9610.9	9060.9
62.5°	1288.4	1282.5	1473.8	1958.1	2753.2	4158.3	6328.6	7927.9	9889.0	10208.8	9676.7
65°	977.5	974.5	1061.2	1327.3	1949.1	2986.4	5392.9	7907.0	9909.9	10657.2	10199.9
67.5°	789.2	792.2	840.0	992.5	1348.2	2122.5	4182.2	7775.5	9799.3	10809.7	10454.0
70°	645.7	645.7	666.6	768.3	995.5	1431.9	2920.7	7177.6	9491.4	10412.1	10152.0
72.5°	493.3	496.2	562.0	621.8	750.3	1004.4	1871.4	5940.0	8764.9	9180.5	8983.2
75°	391.6	388.6	427.5	511.2	582.9	717.5	1147.9	4259.9	7458.6	7174.6	7049.0
77.5°	281.0	278.0	307.9	379.7	442.4	508.2	684.6	2149.4	4056.6	3727.8	3635.1
80°	191.3	185.3	212.2	263.1	293.0	298.9	334.8	825.1	1769.7	1668.1	1647.2
82.5°	98.7	98.7	113.6	149.5	152.5	155.4	149.5	266.1	585.9	547.1	523.1
85°	38.9	38.9	41.9	50.8	50.8	53.8	53.8	68.8	62.8	59.8	56.8
87.5°	3.0	3.0	6.0	6.0	9.0	9.0	9.0	12.0	14.9	14.9	14.9
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°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2.5°	2983.4	2971.5	2932.6	2923.6	2917.7	2908.7	2911.7	2890.8	2881.8	2884.8	2872.8
5°	3037.2	3016.3	2968.5	2947.6	2941.6	2932.6	2941.6	2926.6	2911.7	2917.7	2911.7
7.5°	3112.0	3082.1	3022.3	3001.4	2998.4	2989.4	3001.4	2989.4	2977.5	2983.4	2971.5
10°	3189.7	3150.8	3085.1	3064.1	3064.1	3061.2	3073.1	3055.2	3043.2	3046.2	3040.2
12.5°	3303.3	3252.5	3180.7	3162.8	3153.8	3162.8	3165.8	3141.9	3120.9	3123.9	3115.0
15°	3440.8	3384.0	3306.3	3279.4	3273.4	3270.4	3258.5	3228.6	3201.7	3198.7	3189.7
17.5°	3590.3	3518.5	3425.9	3399.0	3372.1	3363.1	3333.2	3294.3	3252.5	3252.5	3240.5
20°	3733.8	3653.1	3542.4	3503.6	3464.7	3428.9	3378.0	3315.3	3261.4	3252.5	3240.5
22.5°	3889.2	3793.6	3665.0	3608.2	3539.5	3467.7	3381.0	3297.3	3228.6	3213.6	3204.6
25°	4062.6	3943.0	3790.6	3706.9	3596.3	3485.7	3357.1	3249.5	3168.8	3144.9	3138.9
27.5°	4253.9	4110.4	3925.1	3802.5	3641.1	3467.7	3303.3	3174.8	3076.1	3046.2	3037.2
30°	4448.2	4277.8	4047.7	3868.3	3641.1	3410.9	3204.6	3055.2	2941.6	2899.7	2893.7
32.5°	4642.6	4451.2	4158.3	3904.2	3605.2	3315.3	3076.1	2899.7	2771.2	2720.4	2732.3
35°	4875.7	4642.6	4259.9	3919.1	3545.4	3198.7	2929.6	2723.4	2591.8	2547.0	2555.9
37.5°	5117.9	4833.9	4340.6	3907.2	3461.7	3067.1	2765.2	2564.9	2400.5	2322.8	2331.7
40°	5327.1	5007.3	4397.4	3865.3	3354.1	2917.7	2603.8	2340.7	2113.5	2038.8	2029.8
42.5°	5524.4	5135.8	4427.3	3802.5	3231.6	2744.3	2373.6	2035.8	1808.6	1715.9	1718.9
45°	5730.7	5261.4	4415.4	3718.8	3079.1	2541.0	2077.6	1736.8	1536.6	1452.9	1455.8
47.5°	5966.9	5395.9	4403.4	3629.1	2893.7	2277.9	1793.6	1473.8	1300.4	1240.6	1234.6
50°	6218.0	5545.4	4388.5	3518.5	2687.5	1985.0	1512.6	1228.6	1082.2	1043.3	1034.3
52.5°	6502.0	5706.8	4379.5	3387.0	2439.4	1674.1	1261.5	1013.4	914.8	887.9	884.9
55°	6842.8	5895.1	4391.4	3228.6	2140.4	1381.1	1049.3	872.9	807.1	792.2	789.2
57.5°	7258.3	6137.3	4427.3	3043.2	1826.5	1127.0	893.8	786.2	744.4	732.4	732.4
60°	7709.7	6412.3	4493.1	2834.0	1512.6	929.7	792.2	717.5	699.5	714.5	714.5
62.5°	8197.0	6735.1	4609.7	2579.9	1219.7	786.2	711.5	660.7	648.7	678.6	681.6
65°	8648.4	7049.0	4684.4	2274.9	968.6	681.6	648.7	603.9	609.8	639.7	636.7
67.5°	8926.4	7309.1	4579.8	1892.3	768.3	603.9	582.9	544.1	559.0	582.9	585.9
70°	8756.0	7162.6	4062.6	1428.9	600.9	526.1	511.2	487.3	499.2	529.1	541.1
72.5°	7921.9	6415.3	3159.8	965.6	484.3	442.4	448.4	436.5	451.4	478.3	505.2
75°	6430.2	4848.8	2119.5	618.8	382.6	376.7	385.6	376.7	382.6	409.5	424.5
77.5°	3357.1	2364.6	1055.3	385.6	284.0	293.0	307.9	310.9	328.8	334.8	340.8
80°	1566.5	1064.2	439.4	215.2	188.3	206.3	236.2	239.2	245.1	254.1	257.1
82.5°	511.2	319.9	203.3	116.6	107.6	116.6	152.5	182.4	185.3	203.3	203.3
85°	53.8	32.9	44.8	47.8	41.9	50.8	68.8	65.8	29.9	17.9	17.9
87.5°	14.9	12.0	14.9	14.9	12.0	12.0	9.0	3.0	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)