

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: P841038

Luminaire Tested: **ARCH4-120-740-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841038
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: ARCH4-120-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21618 lumens
Efficiency: N/A
Efficacy: 177.2 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



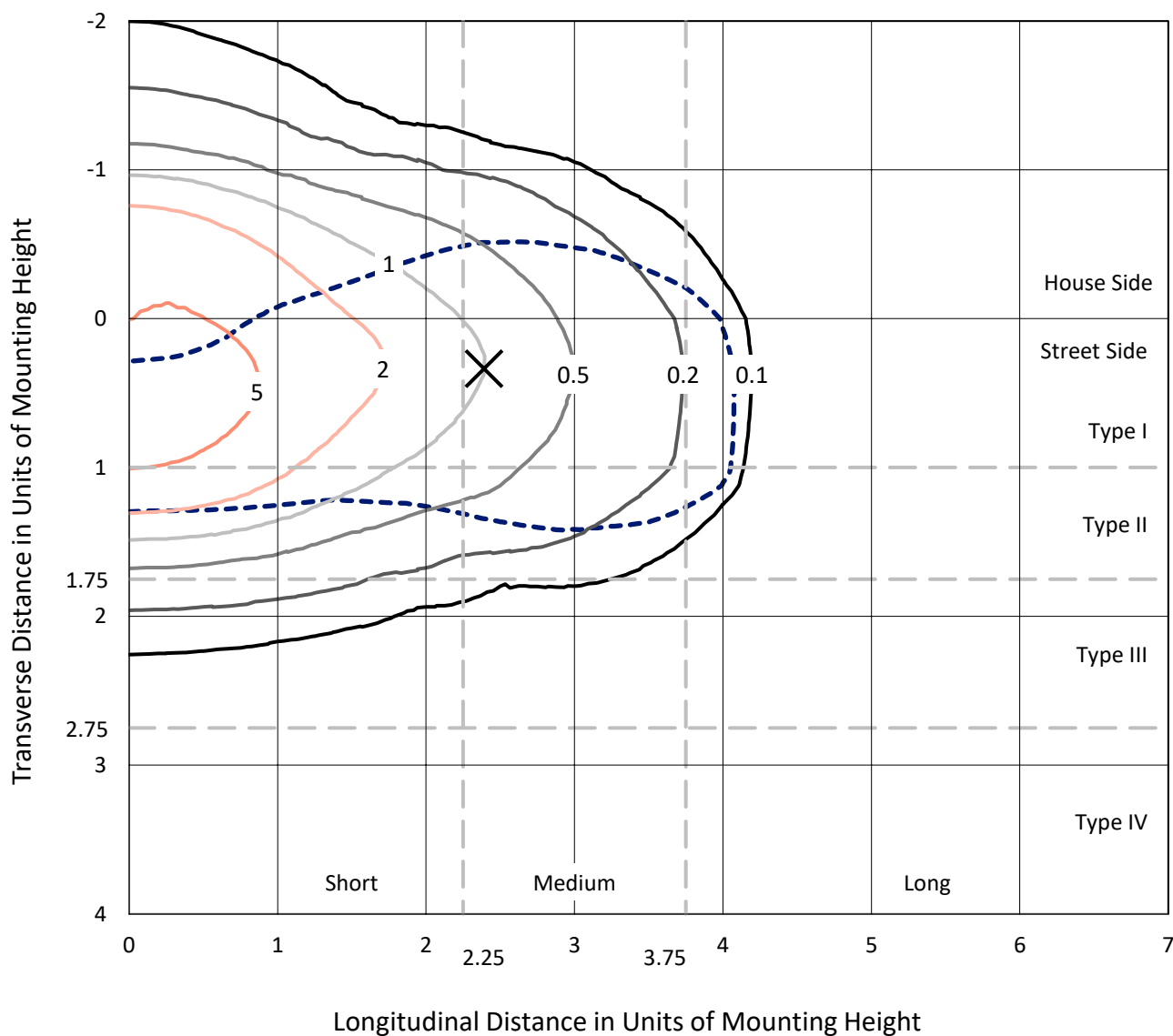
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

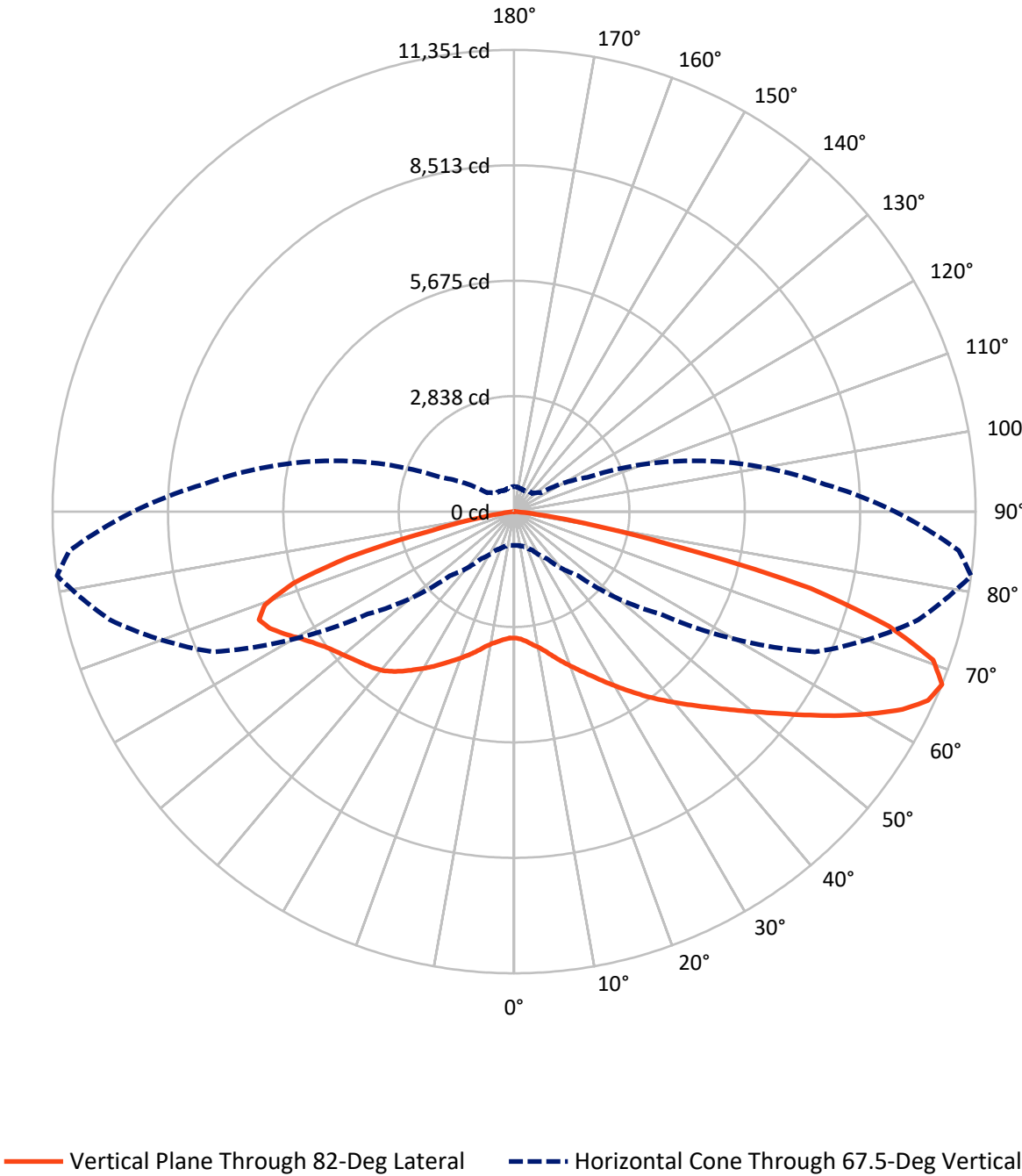
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	6583.6	0.0	6583.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15034.4	0.0	15034.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	21618.0	0.0	21618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.2	1.5
10°-20°	1156.8	5.4
20°-30°	2324.9	10.8
30°-40°	3652.1	16.9
40°-50°	4449.0	20.6
50°-60°	4203.7	19.4
60°-70°	3471.3	16.1
70°-80°	1890.3	8.7
80°-90°	148.6	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°	21618.0	100.0
0°-180°	21618.0	100.0

Coefficient of Utilization



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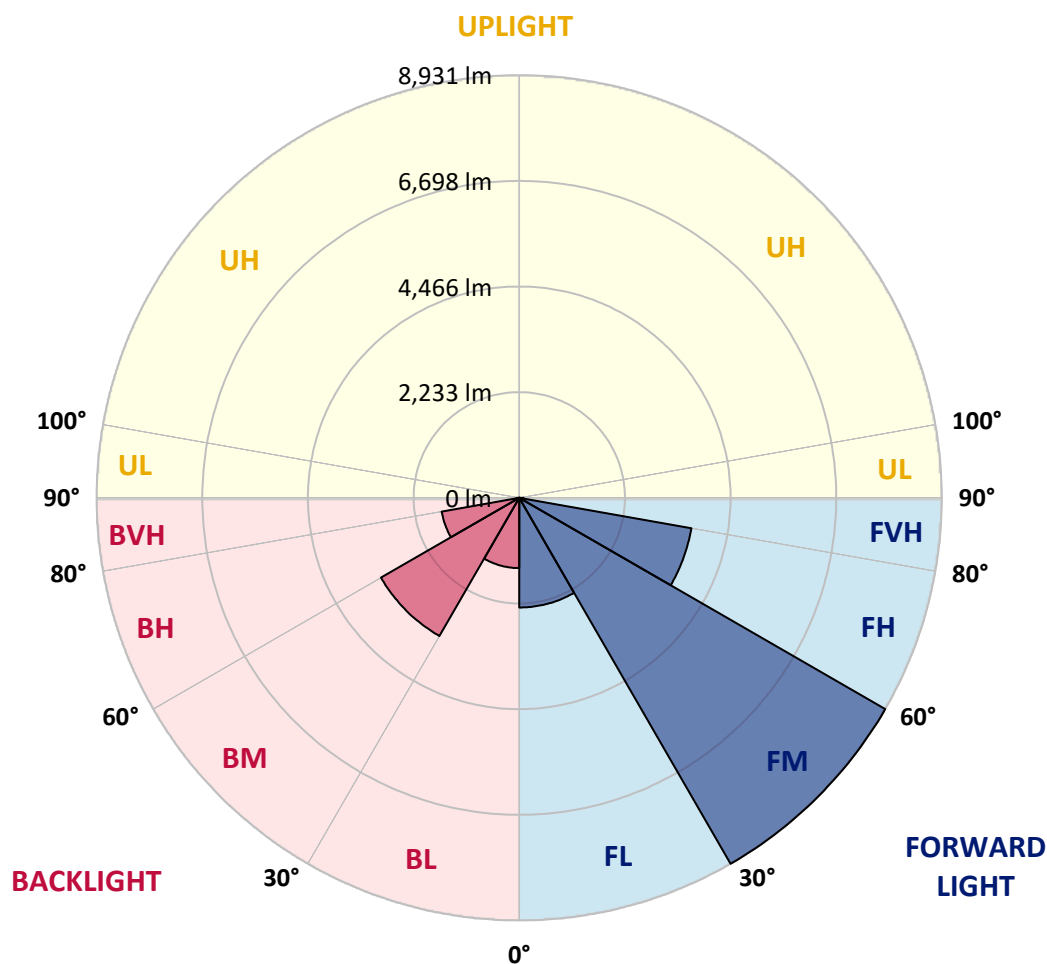
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2318.2	10.7			
FM	(30°-60°)	8931.3	41.3			
FH	(60°-80°)	3695.3	17.1			G2/5000
FVH	(80°-90°)	89.6	0.4			G1/100
BL	(0°-30°)	1484.6	6.9	B3/2500		
BM	(30°-60°)	3373.5	15.6	B3/5000		
BH	(60°-80°)	1666.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	59.0	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°	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6
2.5°	3248.8	3248.8	3273.9	3273.9	3252.0	3217.4	3208.0	3170.4	3135.8	3135.8	3139.0
5°	3559.6	3556.4	3575.3	3550.2	3496.8	3427.8	3380.7	3299.1	3230.0	3208.0	3204.9
7.5°	3939.4	3936.3	3945.7	3904.9	3804.4	3691.4	3597.3	3465.4	3352.4	3305.3	3292.8
10°	4363.2	4360.0	4350.6	4281.5	4146.6	3970.8	3829.5	3647.5	3478.0	3402.6	3386.9
12.5°	4849.7	4843.4	4821.5	4721.0	4535.8	4309.8	4105.8	3870.3	3644.3	3540.8	3506.2
15°	5392.7	5383.3	5342.5	5220.1	4972.1	4686.5	4422.8	4121.5	3845.2	3710.3	3663.2
17.5°	5964.0	5964.0	5901.3	5719.2	5443.0	5088.3	4761.8	4378.9	4055.5	3889.2	3832.7
20°	6544.7	6541.6	6463.1	6243.4	5917.0	5508.9	5094.5	4673.9	4272.1	4071.2	4002.2
22.5°	7156.8	7150.6	7053.3	6802.1	6412.9	5951.5	5468.1	4965.8	4510.7	4269.0	4181.1
25°	7860.0	7850.6	7731.3	7423.7	6962.2	6441.2	5888.7	5308.0	4783.8	4488.7	4385.1
27.5°	8607.0	8594.5	8453.2	8095.4	7590.0	6962.2	6353.3	5703.5	5085.1	4733.6	4617.4
30°	9272.5	9263.1	9109.3	8742.0	8161.3	7480.2	6795.9	6099.0	5402.2	4994.1	4849.7
32.5°	9774.7	9774.7	9636.6	9275.6	8673.0	7976.1	7241.6	6472.5	5731.8	5273.5	5104.0
35°	10079.2	10088.6	9969.4	9680.6	9112.4	8443.8	7703.0	6912.0	6083.3	5571.7	5389.6
37.5°	10123.2	10154.6	10085.5	9890.9	9416.9	8833.1	8155.0	7335.8	6447.4	5873.0	5669.0
40°	9919.1	9941.1	9944.2	9868.9	9542.5	9112.4	8553.7	7784.6	6833.5	6190.0	5954.6
42.5°	9511.1	9526.8	9555.0	9577.0	9451.4	9234.8	8858.2	8202.1	7244.7	6513.4	6237.1
45°	8983.7	8980.6	9027.7	9121.8	9115.6	9165.8	9027.7	8581.9	7671.6	6880.6	6551.0
47.5°	8195.8	8180.1	8346.5	8560.0	8666.7	8902.1	9030.8	8880.1	8136.2	7285.5	6908.9
50°	6962.2	6946.5	7310.7	7812.9	8126.8	8484.6	8858.2	9059.1	8622.7	7740.7	7298.1
52.5°	5461.8	5446.1	5907.5	6786.4	7470.7	7991.8	8509.7	9099.9	9084.2	8249.2	7737.6
55°	4061.8	4049.3	4498.1	5449.2	6557.3	7420.5	8082.8	8993.1	9517.3	8833.1	8271.2
57.5°	2862.7	2856.5	3245.7	4033.6	5383.3	6723.7	7671.6	8786.0	9916.0	9467.1	8873.9
60°	2008.9	1999.5	2282.0	2891.0	4071.2	5672.1	7263.6	8509.7	10214.2	10091.8	9514.2
62.5°	1352.9	1346.6	1547.5	2056.0	2891.0	4366.3	6645.2	8324.5	10383.7	10719.6	10160.8
65°	1026.4	1023.3	1114.3	1393.7	2046.6	3135.8	5662.7	8302.6	10405.7	11190.4	10710.2
67.5°	828.7	831.8	882.0	1042.1	1415.7	2228.7	4391.4	8164.5	10289.5	11350.5	10977.0
70°	678.0	678.0	700.0	806.7	1045.3	1503.6	3066.8	7536.7	9966.2	10933.0	10659.9
72.5°	517.9	521.1	590.1	652.9	787.9	1054.7	1965.0	6237.1	9203.4	9639.8	9432.6
75°	411.2	408.1	448.9	536.8	612.1	753.4	1205.4	4473.0	7831.7	7533.5	7401.7
77.5°	295.1	291.9	323.3	398.6	464.6	533.6	718.8	2256.9	4259.6	3914.3	3817.0
80°	200.9	194.6	222.9	276.2	307.6	313.9	351.6	866.4	1858.3	1751.5	1729.6
82.5°	103.6	103.6	119.3	156.9	160.1	163.2	156.9	279.4	615.2	574.4	549.3
85°	40.8	40.8	43.9	53.4	53.4	56.5	56.5	72.2	65.9	62.8	59.6
87.5°	3.1	3.1	6.3	6.3	9.4	9.4	9.4	12.6	15.7	15.7	15.7
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°	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6
2.5°	3132.7	3120.1	3079.3	3069.9	3063.6	3054.2	3057.4	3035.4	3026.0	3029.1	3016.5
5°	3189.2	3167.2	3117.0	3095.0	3088.7	3079.3	3088.7	3073.0	3057.4	3063.6	3057.4
7.5°	3267.7	3236.3	3173.5	3151.5	3148.4	3139.0	3151.5	3139.0	3126.4	3132.7	3120.1
10°	3349.3	3308.5	3239.4	3217.4	3217.4	3214.3	3226.9	3208.0	3195.5	3198.6	3192.3
12.5°	3468.6	3415.2	3339.9	3321.0	3311.6	3321.0	3324.2	3299.1	3277.1	3280.2	3270.8
15°	3612.9	3553.3	3471.7	3443.4	3437.2	3434.0	3421.5	3390.1	3361.8	3358.7	3349.3
17.5°	3769.9	3694.6	3597.3	3569.0	3540.8	3531.3	3499.9	3459.1	3415.2	3415.2	3402.6
20°	3920.6	3835.8	3719.7	3678.9	3638.1	3600.4	3547.0	3481.1	3424.6	3415.2	3402.6
22.5°	4083.8	3983.3	3848.4	3788.7	3716.5	3641.2	3550.2	3462.3	3390.1	3374.4	3365.0
25°	4265.9	4140.3	3980.2	3892.3	3776.2	3660.0	3525.1	3412.1	3327.3	3302.2	3295.9
27.5°	4466.7	4316.1	4121.5	3992.8	3823.3	3641.2	3468.6	3333.6	3230.0	3198.6	3189.2
30°	4670.8	4491.9	4250.2	4061.8	3823.3	3581.6	3365.0	3208.0	3088.7	3044.8	3038.5
32.5°	4874.8	4673.9	4366.3	4099.5	3785.6	3481.1	3230.0	3044.8	2909.8	2856.5	2869.0
35°	5119.7	4874.8	4473.0	4115.2	3722.8	3358.7	3076.2	2859.6	2721.5	2674.4	2683.8
37.5°	5373.9	5075.7	4557.8	4102.6	3634.9	3220.6	2903.5	2693.2	2520.6	2439.0	2448.4
40°	5593.6	5257.8	4617.4	4058.7	3521.9	3063.6	2734.0	2457.8	2219.2	2140.8	2131.4
42.5°	5800.8	5392.7	4648.8	3992.8	3393.2	2881.6	2492.3	2137.6	1899.1	1801.8	1804.9
45°	6017.4	5524.6	4636.3	3904.9	3233.1	2668.1	2181.6	1823.7	1613.4	1525.5	1528.7
47.5°	6265.4	5665.8	4623.7	3810.7	3038.5	2391.9	1883.4	1547.5	1365.5	1302.7	1296.4
50°	6529.0	5822.8	4608.0	3694.6	2821.9	2084.3	1588.3	1290.1	1136.3	1095.5	1086.1
52.5°	6827.3	5992.3	4598.6	3556.4	2561.4	1757.8	1324.6	1064.1	960.5	932.3	929.1
55°	7185.1	6190.0	4611.1	3390.1	2247.5	1450.2	1101.8	916.6	847.5	831.8	828.7
57.5°	7621.4	6444.3	4648.8	3195.5	1917.9	1183.4	938.6	825.5	781.6	769.0	769.0
60°	8095.4	6733.1	4717.9	2975.7	1588.3	976.2	831.8	753.4	734.5	750.2	750.2
62.5°	8607.0	7072.1	4840.3	2708.9	1280.7	825.5	747.1	693.7	681.2	712.5	715.7
65°	9081.0	7401.7	4918.8	2388.8	1017.0	715.7	681.2	634.1	640.3	671.7	668.6
67.5°	9373.0	7674.8	4808.9	1987.0	806.7	634.1	612.1	571.3	587.0	612.1	615.2
70°	9194.0	7521.0	4265.9	1500.4	630.9	552.5	536.8	511.7	524.2	555.6	568.2
72.5°	8318.3	6736.2	3317.9	1013.9	508.5	464.6	470.8	458.3	474.0	502.2	530.5
75°	6751.9	5091.4	2225.5	649.8	401.8	395.5	404.9	395.5	401.8	430.0	445.7
77.5°	3525.1	2482.9	1108.1	404.9	298.2	307.6	323.3	326.5	345.3	351.6	357.8
80°	1644.8	1117.5	461.4	226.0	197.8	216.6	248.0	251.1	257.4	266.8	270.0
82.5°	536.8	335.9	213.4	122.4	113.0	122.4	160.1	191.5	194.6	213.4	213.4
85°	56.5	34.5	47.1	50.2	43.9	53.4	72.2	69.1	31.4	18.8	18.8
87.5°	15.7	12.6	15.7	15.7	12.6	12.6	9.4	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)