

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: P1210585

Luminaire Tested: **ARCH3-170-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21652 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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

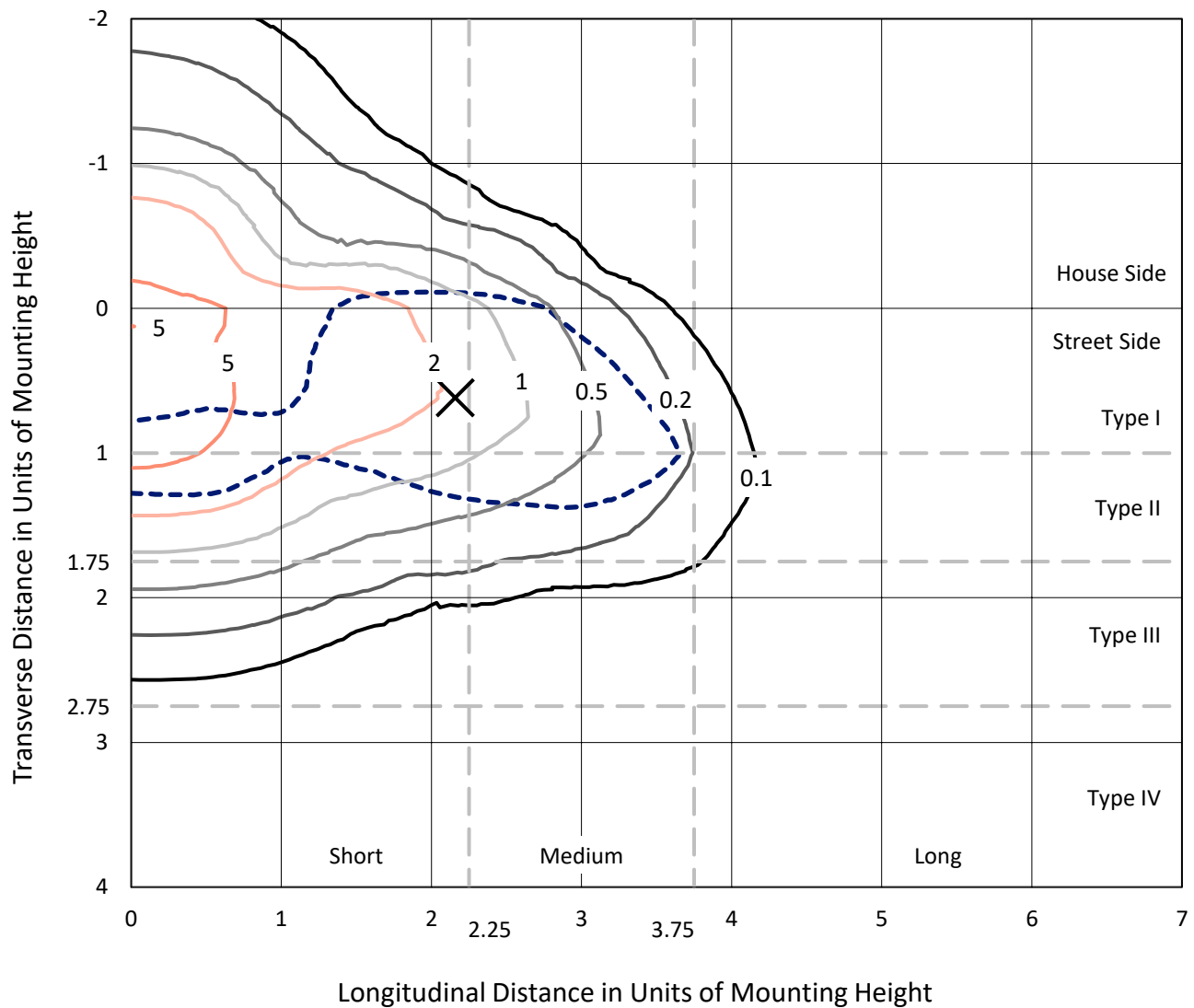


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Iso-Footcandle Lines of Horizontal Illumination

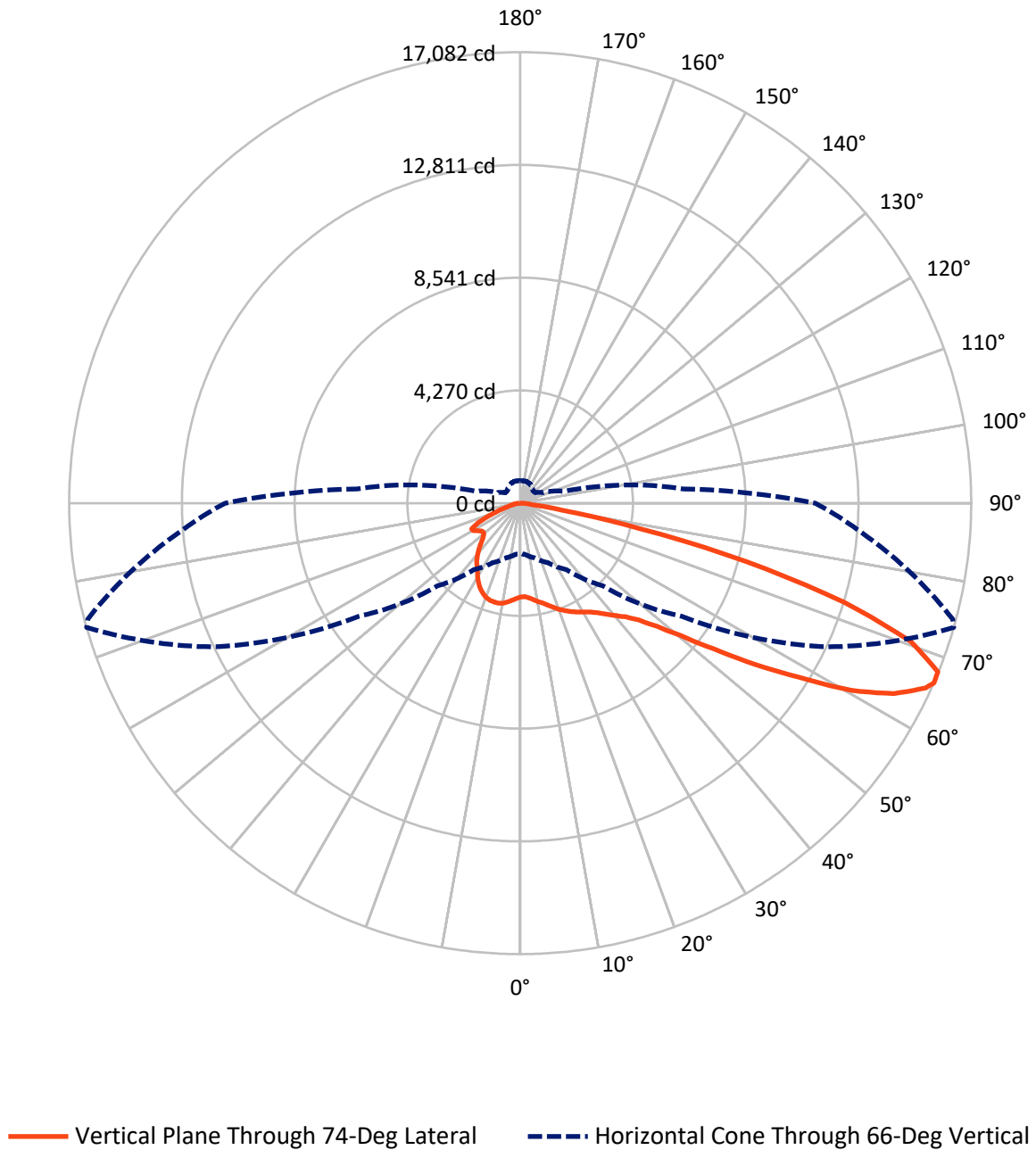
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5272.9	0.0	5272.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	16379.1	0.0	16379.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	21652.0	0.0	21652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	1.6
10°-20°	1041.2	4.8
20°-30°	1953.9	9.0
30°-40°	3005.5	13.9
40°-50°	4042.7	18.7
50°-60°	4781.0	22.1
60°-70°	4422.6	20.4
70°-80°	1860.6	8.6
80°-90°	205.9	1.0
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°	21652.0	100.0
0°-180°	21652.0	100.0

Coefficient of Utilization



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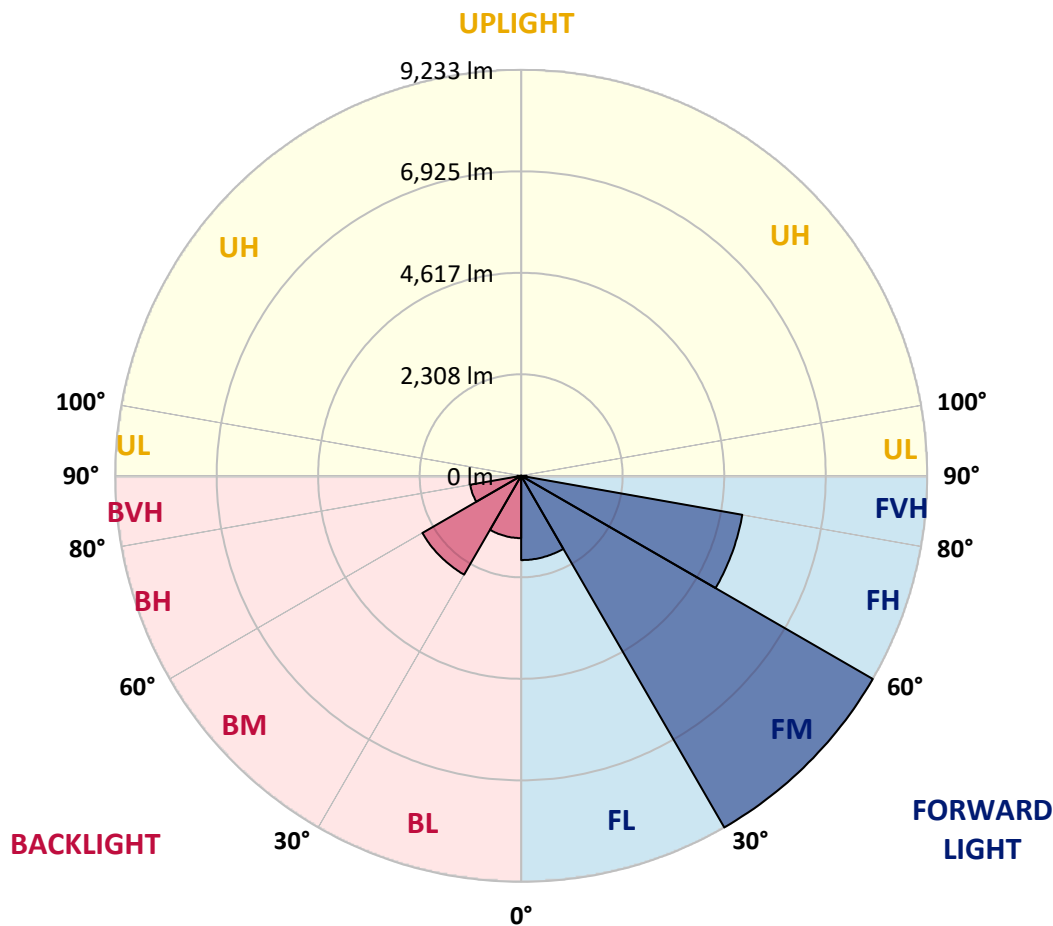
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1916.5	8.9			
FM	(30°-60°)	9233.4	42.6			
FH	(60°-80°)	5106.1	23.6			G3/7500
FVH	(80°-90°)	123.2	0.6			G2/225
BL	(0°-30°)	1417.2	6.5	B3/2500		
BM	(30°-60°)	2595.8	12.0	B3/5000		
BH	(60°-80°)	1177.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	82.7	0.4			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5
2.5°	3538.3	3532.8	3543.9	3560.6	3569.0	3555.1	3549.5	3546.7	3546.7	3538.3	3552.3
5°	3371.2	3368.4	3393.5	3424.1	3482.6	3524.4	3580.1	3613.6	3602.4	3585.7	3596.8
7.5°	3153.9	3148.3	3178.9	3237.4	3318.2	3410.2	3546.7	3652.6	3694.4	3688.8	3686.0
10°	3237.4	3231.9	3229.1	3212.4	3240.2	3329.4	3471.5	3658.1	3800.2	3803.0	3805.8
12.5°	3527.2	3541.1	3527.2	3474.3	3413.0	3379.5	3463.1	3672.1	3889.4	3906.1	3975.8
15°	3922.8	3908.9	3881.0	3819.7	3725.0	3624.7	3563.4	3736.2	4017.5	4031.5	4184.7
17.5°	4271.1	4282.2	4265.5	4207.0	4095.6	3964.6	3777.9	3847.6	4154.1	4193.1	4407.6
20°	4650.0	4694.6	4672.3	4599.8	4507.9	4312.9	4078.8	4009.2	4304.5	4332.4	4638.8
22.5°	5087.4	5134.8	5093.0	5023.3	4948.1	4708.5	4407.6	4207.0	4429.9	4488.4	4861.7
25°	5611.2	5655.8	5616.8	5508.1	5413.4	5120.8	4761.4	4429.9	4552.5	4616.6	5042.8
27.5°	6026.3	6059.8	6096.0	6031.9	5887.0	5583.3	5129.2	4661.1	4675.1	4741.9	5210.0
30°	6396.9	6480.5	6511.1	6519.5	6396.9	6057.0	5505.3	4900.7	4780.9	4850.6	5377.2
32.5°	6903.9	7029.3	6979.2	7029.3	6956.9	6502.7	5895.4	5148.7	4917.5	4981.5	5536.0
35°	7645.0	7745.3	7614.4	7575.4	7458.4	6954.1	6271.5	5405.0	5098.6	5168.2	5686.4
37.5°	8441.9	8556.1	8366.6	8210.6	7987.7	7399.9	6594.7	5742.1	5349.3	5405.0	5825.7
40°	9138.4	9233.1	9068.7	8862.6	8489.2	7792.7	6873.3	5979.0	5600.0	5669.7	5987.3
42.5°	9782.0	9843.3	9659.4	9461.6	8962.9	8146.5	7174.2	6229.7	5892.6	5959.5	6118.3
45°	10433.9	10481.3	10225.0	9943.6	9358.5	8469.7	7505.7	6580.8	6321.6	6410.8	6330.0
47.5°	10550.9	10564.9	10520.3	10330.8	9670.5	8779.0	7915.3	7051.6	6976.4	7073.9	6695.0
50°	9740.2	9865.6	10141.4	10328.0	9795.9	9038.1	8324.8	7725.8	7879.1	8004.4	7452.8
52.5°	8166.0	8285.8	8923.9	9631.5	9495.0	9096.6	8765.0	8581.2	9152.3	9302.8	8483.7
55°	6505.5	6611.4	7285.6	8305.3	8522.7	8829.1	9235.9	9673.3	10776.6	10876.9	9614.8
57.5°	5357.7	5416.2	5898.2	6878.9	7227.1	7973.8	9489.4	10971.6	12428.8	12582.0	10598.3
60°	4393.7	4457.7	4817.2	5625.1	6087.6	6750.7	9288.8	12253.2	14401.3	14401.3	11860.4
62.5°	3307.1	3362.8	3697.1	4329.6	5106.9	5714.3	8648.0	13103.0	15889.1	15822.2	12774.2
65°	2270.7	2315.2	2557.6	2978.3	3677.6	4870.1	7773.2	13114.1	16875.4	16786.2	13164.3
66°	1905.7	1944.7	2150.9	2490.8	3078.6	4418.7	7463.9	12877.3	17081.5	16956.2	12999.9
67.5°	1504.5	1532.4	1668.9	1869.5	2256.7	3577.3	6976.4	12205.9	17062.0	16986.8	12582.0
70°	1075.4	1094.9	1195.2	1237.0	1334.5	2070.1	5541.5	10690.2	15694.1	15716.4	10938.2
72.5°	833.0	863.7	925.0	933.3	911.1	1100.5	3362.8	8918.3	12838.3	12830.0	8118.7
75°	671.4	688.2	718.8	735.5	730.0	710.5	1423.7	6653.2	8837.5	8940.6	4546.9
77.5°	529.4	526.6	554.4	576.7	593.4	557.2	651.9	3900.5	4633.3	4502.3	1707.9
80°	390.1	390.1	429.1	437.4	462.5	468.1	434.6	1504.5	1590.9	1446.0	443.0
82.5°	256.3	256.3	298.1	303.7	328.8	365.0	314.8	451.3	440.2	417.9	200.6
85°	139.3	133.7	147.7	167.2	181.1	214.5	189.5	225.7	231.2	228.5	133.7
87.5°	27.9	25.1	39.0	44.6	50.1	66.9	61.3	91.9	128.2	125.4	58.5
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°	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5
2.5°	3571.8	3569.0	3599.6	3635.9	3677.6	3702.7	3713.9	3733.4	3719.4	3725.0	3741.7
5°	3624.7	3633.1	3677.6	3725.0	3744.5	3730.6	3699.9	3688.8	3663.7	3658.1	3652.6
7.5°	3702.7	3716.6	3761.2	3772.4	3713.9	3616.3	3546.7	3507.7	3465.9	3454.8	3449.2
10°	3830.9	3839.2	3850.4	3736.2	3591.3	3460.3	3374.0	3337.7	3309.9	3287.6	3293.2
12.5°	3992.5	3986.9	3900.5	3663.7	3457.5	3323.8	3265.3	3243.0	3223.5	3209.6	3206.8
15°	4195.9	4156.9	3908.9	3563.4	3332.2	3220.7	3178.9	3170.6	3148.3	3148.3	3145.5
17.5°	4402.0	4301.7	3903.3	3457.5	3212.4	3151.1	3126.0	3120.4	3114.9	3112.1	3120.4
20°	4608.2	4429.9	3858.7	3326.6	3128.8	3092.6	3087.0	3089.8	3084.2	3092.6	3087.0
22.5°	4789.3	4513.5	3775.2	3187.3	3070.3	3067.5	3053.6	3059.1	3078.6	3081.4	3089.8
25°	4928.6	4544.1	3652.6	3059.1	3028.5	3022.9	3039.6	3061.9	3078.6	3081.4	3095.3
27.5°	5042.8	4527.4	3499.3	2958.8	2956.0	2986.7	3036.8	3045.2	3048.0	3048.0	3036.8
30°	5129.2	4491.2	3304.3	2847.4	2861.3	2936.5	2983.9	2983.9	2961.6	2956.0	2972.8
32.5°	5148.7	4443.8	3092.6	2733.2	2755.4	2844.6	2903.1	2883.6	2858.5	2858.5	2869.7
35°	5165.4	4379.7	2922.6	2577.1	2610.6	2716.4	2772.2	2733.2	2705.3	2696.9	2694.2
37.5°	5159.8	4354.7	2769.4	2379.3	2423.9	2527.0	2563.2	2527.0	2485.2	2465.7	2490.8
40°	5165.4	4337.9	2577.1	2162.0	2206.6	2267.9	2315.2	2287.4	2248.4	2198.2	2223.3
42.5°	5198.8	4360.2	2365.4	1950.3	1950.3	1983.7	2064.5	2045.0	1950.3	1930.8	1953.1
45°	5377.2	4480.0	2153.7	1738.5	1707.9	1730.2	1813.7	1730.2	1671.7	1671.7	1691.2
47.5°	5809.0	4702.9	1967.0	1551.9	1479.4	1524.0	1546.3	1468.3	1423.7	1412.5	1432.1
50°	6689.4	5148.7	1855.5	1398.6	1309.5	1342.9	1329.0	1326.2	1281.6	1287.2	1298.3
52.5°	8026.7	6018.0	1822.1	1323.4	1212.0	1220.3	1206.4	1212.0	1203.6	1231.5	1239.8
55°	9483.9	6934.6	1863.9	1334.5	1145.1	1086.6	1092.1	1120.0	1153.4	1198.0	1206.4
57.5°	10573.2	7394.3	1972.6	1409.8	1061.5	972.3	986.3	1039.2	1103.3	1139.5	1159.0
60°	11384.0	7338.6	2131.4	1429.3	961.2	869.3	894.3	972.3	1028.1	1058.7	1078.2
62.5°	11648.7	6990.3	2170.4	1287.2	830.3	771.7	833.0	913.8	938.9	972.3	986.3
65°	11431.3	6497.2	1886.2	1044.8	730.0	699.3	788.5	849.8	883.2	899.9	902.7
66°	11175.0	6201.8	1732.9	950.1	693.7	677.0	771.7	821.9	855.3	852.5	855.3
67.5°	10612.2	5583.3	1485.0	816.3	640.8	643.6	743.9	777.3	788.5	780.1	780.1
70°	8698.2	3931.2	1064.3	618.5	562.8	601.8	668.7	677.0	702.1	691.0	691.0
72.5°	5363.2	1930.8	713.2	473.6	501.5	562.8	560.0	587.9	646.4	663.1	674.2
75°	2635.6	782.9	470.8	401.2	448.6	470.8	465.3	534.9	618.5	691.0	716.0
77.5°	1000.2	390.1	328.8	351.0	362.2	353.8	370.6	484.8	618.5	749.5	774.5
80°	309.3	270.3	259.1	289.8	273.0	259.1	278.6	401.2	523.8	568.4	568.4
82.5°	186.7	211.7	200.6	197.8	183.9	186.7	200.6	287.0	404.0	423.5	423.5
85°	130.9	139.3	114.2	108.7	105.9	103.1	103.1	167.2	239.6	236.8	245.2
87.5°	50.1	55.7	41.8	41.8	39.0	27.9	22.3	27.9	27.9	19.5	13.9
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)