

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: P835967

Luminaire Tested: **ARCH3-120-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835967
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: ARCH3-120-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18460 lumens
Efficiency: N/A
Efficacy: 150.4 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

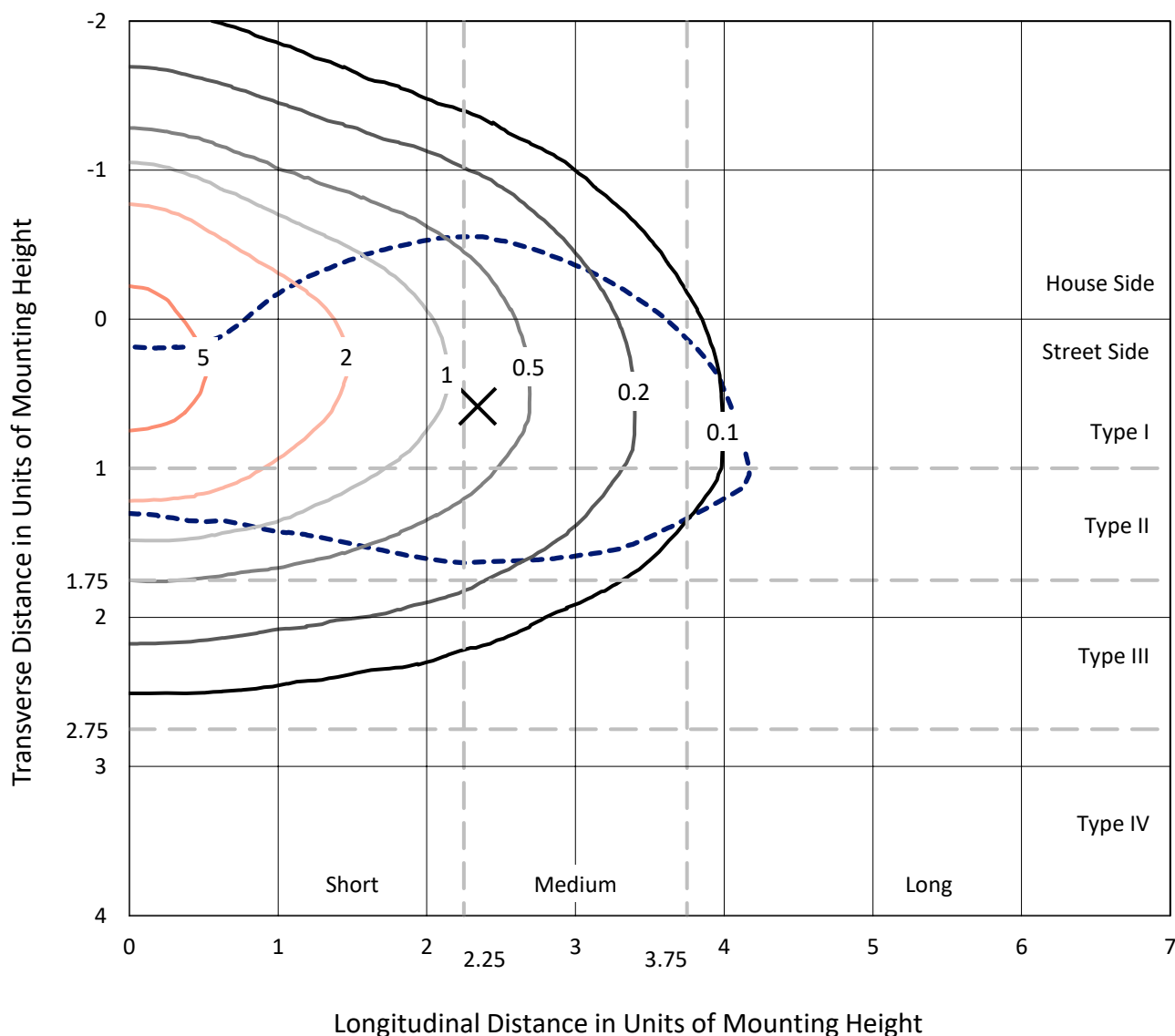
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

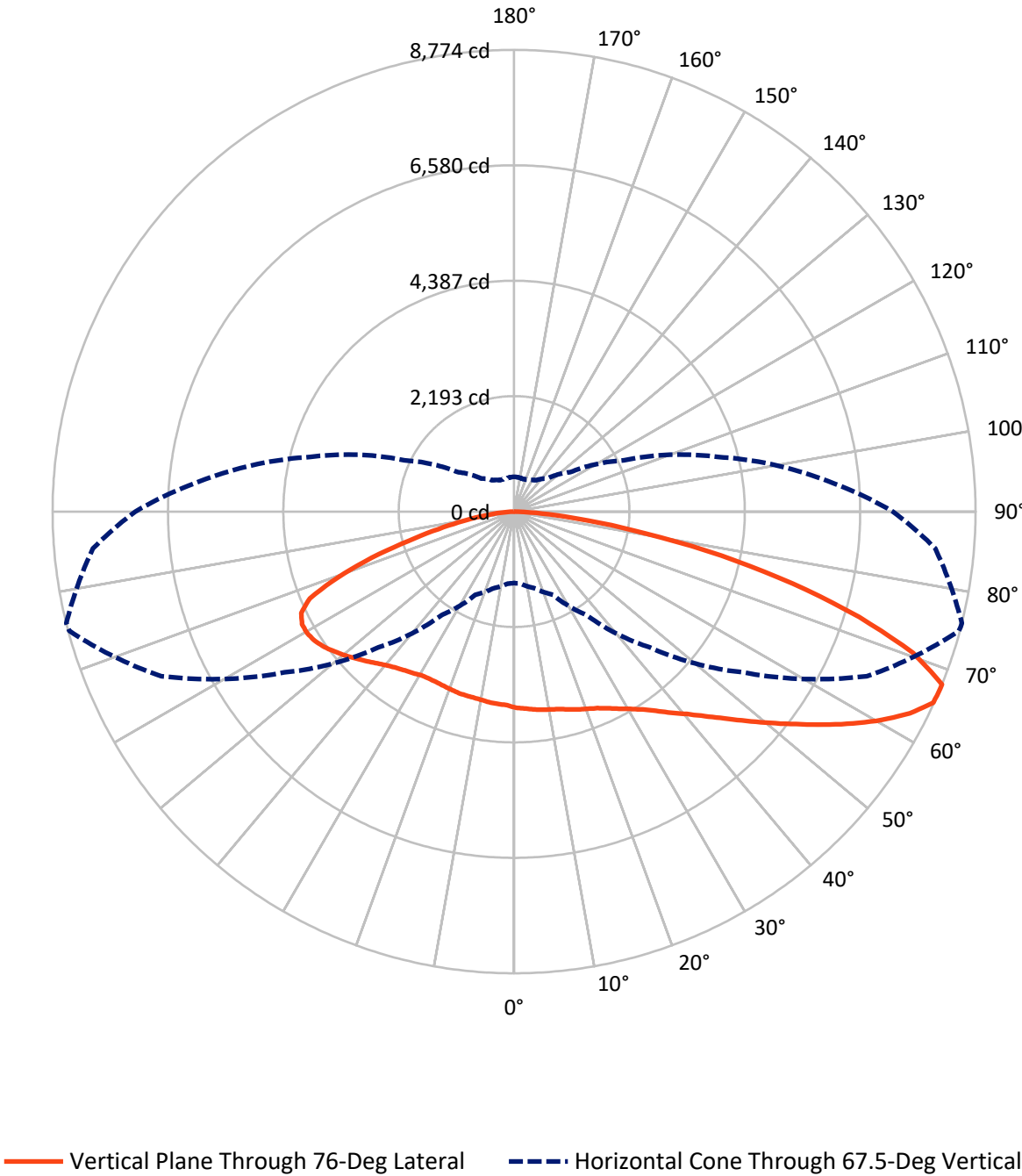
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6237.7	0.0	6237.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	12222.3	0.0	12222.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	18460.0	0.0	18460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	1.9
10°-20°	1099.3	6.0
20°-30°	1867.7	10.1
30°-40°	2657.5	14.4
40°-50°	3356.3	18.2
50°-60°	3633.8	19.7
60°-70°	3379.8	18.3
70°-80°	1815.3	9.8
80°-90°	290.9	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°	18460.0	100.0
0°-180°	18460.0	100.0

Coefficient of Utilization



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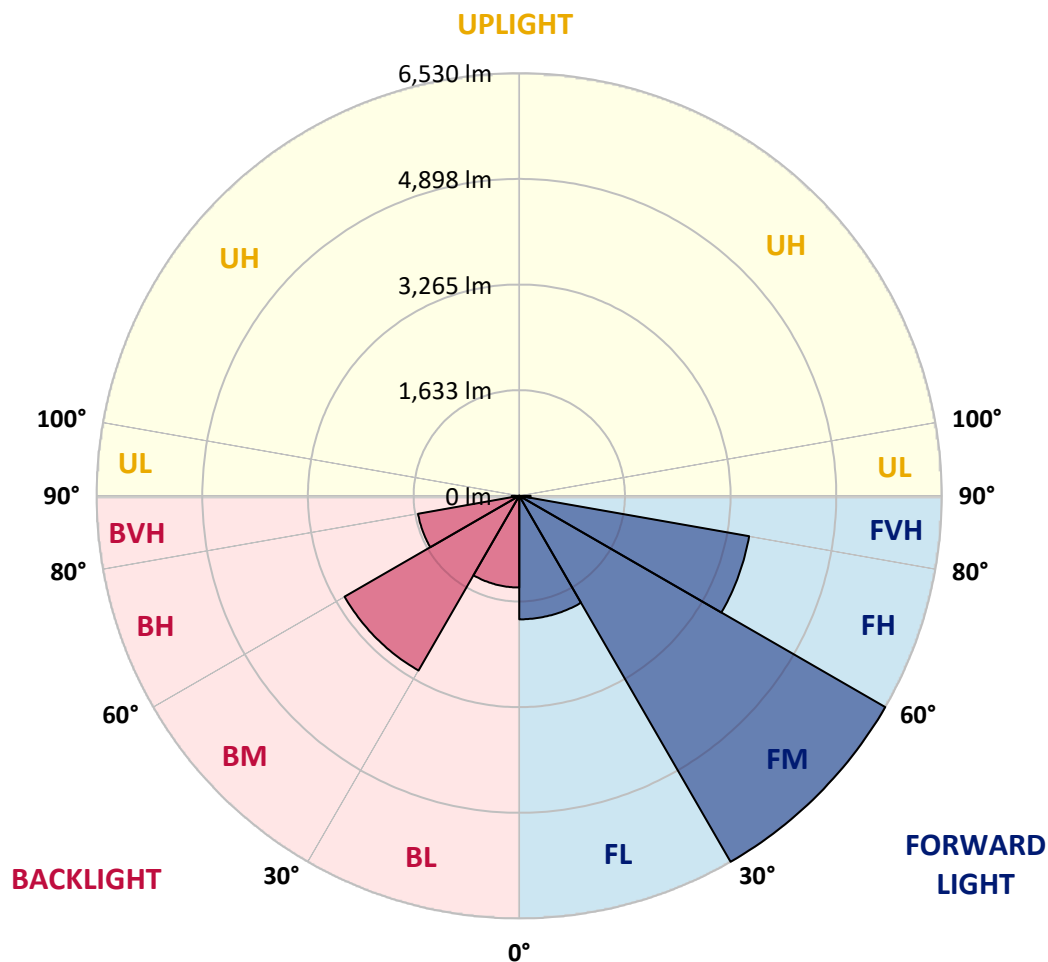
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1909.0	10.3			
FM	(30°-60°)	6530.4	35.4			
FH	(60°-80°)	3606.9	19.5			G2/5000
FVH	(80°-90°)	176.0	1.0			G2/225
BL	(0°-30°)	1417.5	7.7	B3/2500		
BM	(30°-60°)	3117.1	16.9	B3/5000		
BH	(60°-80°)	1588.2	8.6	B3/2500		G3/2500
BVH	(80°-90°)	114.9	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°	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9
2.5°	3842.0	3835.1	3807.7	3811.1	3811.1	3807.7	3766.6	3749.4	3749.4	3746.0	3708.3
5°	3979.1	3968.8	3937.9	3931.1	3917.4	3900.2	3835.1	3797.4	3780.3	3776.9	3725.5
7.5°	4140.2	4126.4	4088.7	4068.2	4033.9	3989.4	3907.1	3848.8	3807.7	3804.3	3732.3
10°	4301.2	4287.5	4243.0	4205.3	4157.3	4085.3	3979.1	3893.4	3828.3	3821.4	3735.7
12.5°	4493.2	4479.5	4424.6	4376.6	4304.7	4208.7	4068.2	3951.7	3862.5	3852.3	3746.0
15°	4695.4	4674.8	4620.0	4565.1	4476.0	4352.6	4184.7	4030.5	3917.4	3900.2	3776.9
17.5°	4863.3	4835.9	4791.3	4736.5	4637.1	4493.2	4301.2	4109.3	3968.8	3955.1	3807.7
20°	5007.3	4986.7	4938.7	4887.3	4781.1	4623.4	4410.9	4188.1	4016.8	3999.6	3831.7
22.5°	5144.3	5116.9	5089.5	5051.8	4935.3	4760.5	4537.7	4284.1	4078.5	4057.9	3862.5
25°	5302.0	5271.2	5260.9	5240.3	5103.2	4925.0	4691.9	4404.1	4164.1	4140.2	3917.4
27.5°	5497.4	5463.1	5442.5	5442.5	5278.0	5092.9	4856.5	4544.6	4263.5	4243.0	3985.9
30°	5703.0	5661.9	5631.0	5631.0	5445.9	5260.9	5017.5	4685.1	4376.6	4352.6	4075.0
32.5°	5884.6	5843.5	5809.2	5805.8	5613.9	5428.8	5185.5	4839.3	4513.7	4482.9	4184.7
35°	6025.2	5987.5	5956.6	5963.5	5781.8	5600.2	5374.0	5045.0	4685.1	4650.8	4328.7
37.5°	6110.8	6097.1	6080.0	6104.0	5936.0	5764.7	5569.3	5243.7	4880.4	4849.6	4506.9
40°	6155.4	6145.1	6213.7	6244.5	6066.3	5912.1	5764.7	5449.4	5092.9	5058.7	4712.5
42.5°	6220.5	6306.2	6333.6	6326.8	6162.2	6025.2	5942.9	5672.1	5343.1	5312.3	4959.3
45°	5987.5	5966.9	6117.7	6199.9	6169.1	6097.1	6110.8	5939.5	5634.4	5603.6	5243.7
47.5°	5675.6	5648.2	5733.8	5936.0	6056.0	6124.5	6261.6	6217.1	5970.3	5942.9	5576.2
50°	5017.5	5055.2	5374.0	5644.7	5881.2	6117.7	6388.4	6515.3	6340.5	6313.0	5932.6
52.5°	4287.5	4325.2	4657.7	5281.4	5668.7	6066.3	6481.0	6813.4	6741.5	6710.6	6313.0
55°	3756.3	3838.6	4215.6	4668.0	5367.1	5905.2	6535.8	7118.5	7173.3	7145.9	6727.7
57.5°	3228.5	3290.2	3574.7	3975.6	4955.8	5624.2	6532.4	7402.9	7625.7	7598.3	7149.3
60°	2608.2	2687.0	2913.2	3345.0	4407.5	5288.3	6436.4	7625.7	8061.0	8040.4	7557.1
62.5°	2183.2	2207.2	2368.2	2741.8	3701.5	4863.3	6220.5	7745.6	8455.1	8441.4	7923.9
65°	1758.2	1761.6	1909.0	2220.9	3019.4	4335.5	5853.8	7701.1	8753.3	8760.1	8187.8
67.5°	1357.2	1374.3	1508.0	1744.5	2399.1	3650.1	5329.4	7399.5	8756.7	8773.8	8037.0
70°	939.1	952.8	1155.0	1384.6	1854.2	2909.8	4620.0	6600.9	8037.0	8050.7	7204.1
72.5°	661.5	668.3	884.2	1107.0	1449.7	2193.5	3485.5	5459.7	6851.1	6861.4	6059.4
75°	493.5	500.4	623.8	839.7	1110.4	1518.3	2382.0	4181.3	5473.4	5473.4	4784.5
77.5°	349.6	353.0	404.4	579.2	740.3	1024.8	1432.6	2738.4	4016.8	4023.6	3485.5
80°	236.5	239.9	263.9	390.7	462.7	555.2	778.0	1436.0	2532.8	2543.0	2214.0
82.5°	123.4	130.2	147.4	198.8	233.1	308.5	401.0	730.0	1401.8	1429.2	1329.8
85°	48.0	48.0	54.8	65.1	85.7	120.0	185.1	277.6	634.0	654.6	586.1
87.5°	17.1	17.1	20.6	20.6	24.0	27.4	30.8	41.1	72.0	72.0	68.5
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°	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9
2.5°	3694.6	3694.6	3677.5	3684.3	3680.9	3674.0	3667.2	3677.5	3667.2	3643.2	3639.8
5°	3701.5	3694.6	3667.2	3663.8	3653.5	3639.8	3622.6	3629.5	3612.4	3591.8	3588.4
7.5°	3704.9	3691.2	3653.5	3639.8	3619.2	3591.8	3564.4	3564.4	3540.4	3519.8	3516.4
10°	3698.0	3680.9	3629.5	3602.1	3564.4	3523.2	3485.5	3475.3	3447.8	3423.9	3423.9
12.5°	3701.5	3677.5	3612.4	3567.8	3516.4	3465.0	3417.0	3403.3	3379.3	3355.3	3351.9
15°	3722.0	3687.8	3605.5	3547.2	3471.8	3413.6	3362.2	3351.9	3331.3	3314.2	3314.2
17.5°	3742.6	3698.0	3595.2	3513.0	3420.4	3355.3	3307.3	3307.3	3293.6	3283.3	3283.3
20°	3752.9	3701.5	3574.7	3465.0	3358.7	3290.2	3245.6	3252.5	3249.1	3245.6	3245.6
22.5°	3776.9	3708.3	3557.5	3420.4	3293.6	3221.6	3180.5	3190.8	3187.4	3187.4	3190.8
25°	3814.6	3725.5	3543.8	3379.3	3231.9	3153.1	3108.5	3115.4	3115.4	3115.4	3115.4
27.5°	3866.0	3759.7	3540.4	3341.6	3170.2	3081.1	3026.3	3026.3	3012.6	3016.0	3019.4
30°	3944.8	3824.8	3547.2	3307.3	3105.1	2992.0	2926.9	2916.6	2913.2	2920.0	2923.5
32.5°	4040.8	3914.0	3588.4	3283.3	3036.6	2892.6	2810.4	2806.9	2796.7	2796.7	2796.7
35°	4160.7	3999.6	3626.1	3279.9	2968.0	2786.4	2697.3	2687.0	2663.0	2652.7	2652.7
37.5°	4314.9	4133.3	3670.6	3255.9	2909.8	2683.6	2577.3	2543.0	2515.6	2512.2	2512.2
40°	4503.4	4284.1	3735.7	3228.5	2848.1	2577.3	2436.8	2378.5	2382.0	2395.7	2395.7
42.5°	4726.2	4469.2	3818.0	3214.8	2759.0	2467.6	2272.3	2203.7	2227.7	2241.4	2244.9
45°	4986.7	4688.5	3910.5	3197.7	2676.7	2344.3	2097.5	2011.8	2022.1	2025.5	2028.9
47.5°	5288.3	4931.9	4006.5	3183.9	2584.2	2190.0	1905.6	1792.5	1789.0	1768.5	1775.3
50°	5603.6	5188.9	4105.9	3160.0	2471.1	2008.4	1703.4	1569.7	1542.3	1511.4	1514.9
52.5°	5939.5	5452.8	4198.4	3122.3	2330.5	1823.3	1511.4	1367.5	1312.6	1278.4	1285.2
55°	6309.6	5723.6	4287.5	3064.0	2183.2	1638.2	1340.1	1192.7	1124.1	1096.7	1100.2
57.5°	6648.9	5984.0	4352.6	2992.0	2022.1	1470.3	1189.3	1045.3	1000.8	997.3	1000.8
60°	6977.9	6203.4	4380.1	2892.6	1857.6	1316.1	1048.7	939.1	908.2	925.4	928.8
62.5°	7255.5	6343.9	4366.4	2759.0	1689.6	1168.7	935.6	856.8	836.3	870.5	874.0
65°	7416.6	6388.4	4270.4	2567.0	1508.0	1024.8	829.4	743.7	733.4	754.0	764.3
67.5°	7204.1	6110.8	4009.9	2303.1	1305.8	891.1	726.6	658.0	640.9	658.0	658.0
70°	6385.0	5295.1	3393.0	1885.0	1083.0	760.9	630.6	582.6	568.9	582.6	579.2
72.5°	5319.1	4404.1	2673.3	1470.3	853.4	640.9	548.4	503.8	490.1	476.4	469.5
75°	4126.4	3345.0	1939.8	1079.6	644.3	514.1	459.3	418.1	383.9	397.6	390.7
77.5°	3022.9	2347.7	1374.3	747.1	462.7	397.6	359.9	329.0	305.0	332.4	329.0
80°	1946.7	1518.3	918.5	500.4	318.7	277.6	263.9	246.8	270.8	353.0	359.9
82.5°	1189.3	963.1	548.4	325.6	209.1	185.1	171.4	171.4	277.6	305.0	308.5
85°	531.2	510.7	298.2	167.9	116.5	106.2	96.0	123.4	113.1	82.3	85.7
87.5°	85.7	89.1	65.1	58.3	44.6	44.6	34.3	24.0	17.1	10.3	10.3
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)