

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: P840977

Luminaire Tested: **ARCH4-110-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20110 lumens
Efficiency: N/A
Efficacy: 178.6 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): 112.6
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



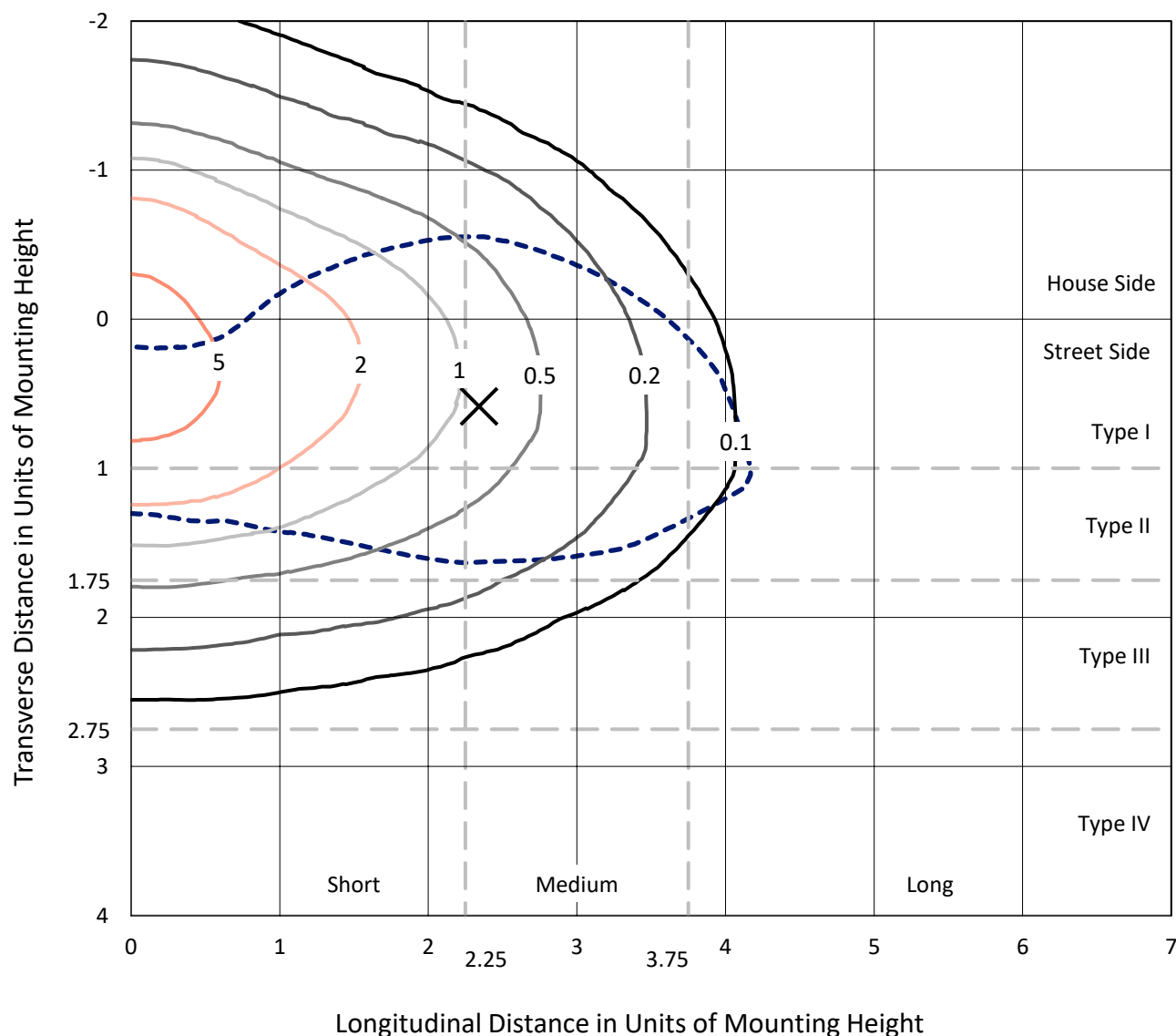
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

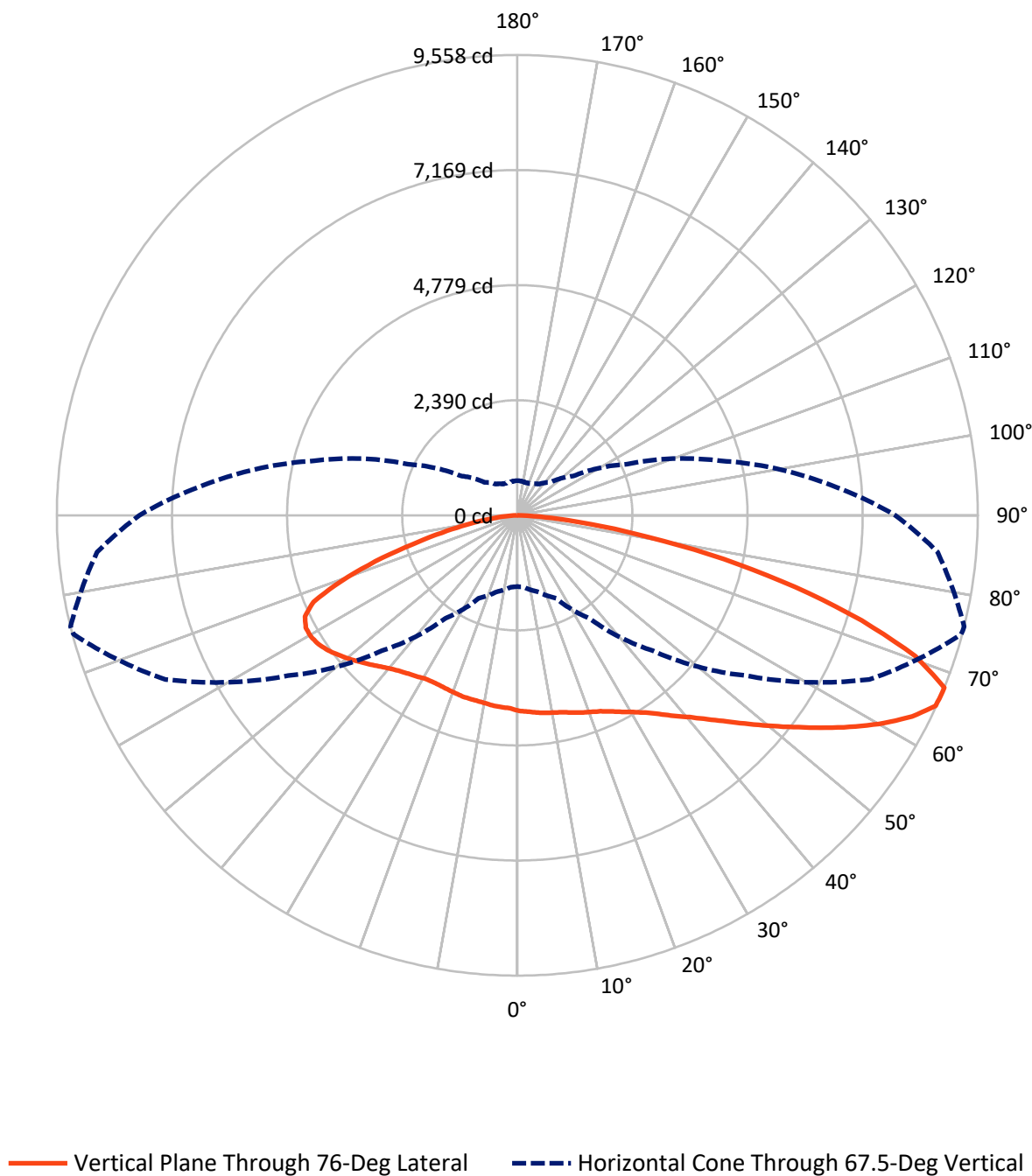
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	6795.3	0.0	6795.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	13314.7	0.0	13314.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	20110.0	0.0	20110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	1.9
10°-20°	1197.5	6.0
20°-30°	2034.6	10.1
30°-40°	2895.0	14.4
40°-50°	3656.3	18.2
50°-60°	3958.6	19.7
60°-70°	3681.9	18.3
70°-80°	1977.5	9.8
80°-90°	316.9	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°	20110.0	100.0
0°-180°	20110.0	100.0

Coefficient of Utilization



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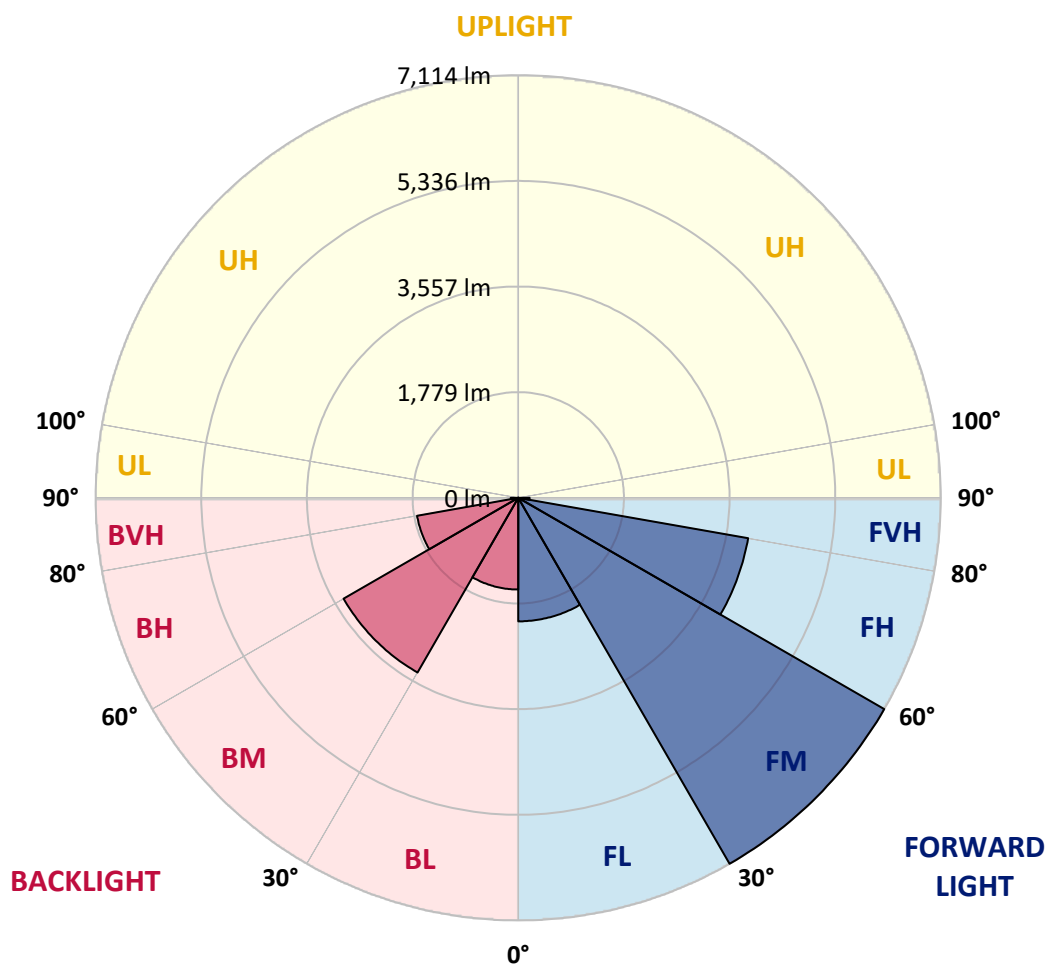
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2079.6	10.3			
FM	(30°-60°)	7114.1	35.4			
FH	(60°-80°)	3929.3	19.5			G2/5000
FVH	(80°-90°)	191.7	1.0			G2/225
BL	(0°-30°)	1544.2	7.7	B3/2500		
BM	(30°-60°)	3395.7	16.9	B3/5000		
BH	(60°-80°)	1730.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	125.2	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°	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2
2.5°	4185.4	4177.9	4148.0	4151.8	4151.8	4148.0	4103.2	4084.6	4084.6	4080.8	4039.8
5°	4334.7	4323.5	4289.9	4282.5	4267.5	4248.9	4177.9	4136.8	4118.2	4114.4	4058.4
7.5°	4510.2	4495.3	4454.2	4431.8	4394.5	4345.9	4256.3	4192.9	4148.0	4144.3	4065.9
10°	4685.7	4670.8	4622.2	4581.1	4528.9	4450.5	4334.7	4241.4	4170.5	4163.0	4069.6
12.5°	4894.8	4879.8	4820.1	4767.8	4689.4	4584.9	4431.8	4304.9	4207.8	4196.6	4080.8
15°	5115.1	5092.7	5032.9	4973.2	4876.1	4741.7	4558.7	4390.7	4267.5	4248.9	4114.4
17.5°	5298.0	5268.1	5219.6	5159.9	5051.6	4894.8	4685.7	4476.6	4323.5	4308.6	4148.0
20°	5454.8	5432.4	5380.1	5324.1	5208.4	5036.6	4805.2	4562.5	4375.8	4357.1	4174.2
22.5°	5604.2	5574.3	5544.4	5503.4	5376.4	5186.0	4943.3	4667.0	4443.0	4420.6	4207.8
25°	5775.9	5742.3	5731.1	5708.7	5559.4	5365.2	5111.3	4797.7	4536.3	4510.2	4267.5
27.5°	5988.7	5951.4	5929.0	5929.0	5749.8	5548.2	5290.5	4950.8	4644.6	4622.2	4342.2
30°	6212.7	6167.9	6134.3	6134.3	5932.7	5731.1	5466.0	5103.9	4767.8	4741.7	4439.3
32.5°	6410.6	6365.8	6328.5	6324.7	6115.7	5914.0	5649.0	5271.9	4917.2	4883.6	4558.7
35°	6563.7	6522.6	6489.0	6496.5	6298.6	6100.7	5854.3	5495.9	5103.9	5066.5	4715.6
37.5°	6657.0	6642.1	6623.4	6649.6	6466.6	6279.9	6067.1	5712.4	5316.7	5283.1	4909.7
40°	6705.6	6694.4	6769.0	6802.7	6608.5	6440.5	6279.9	5936.5	5548.2	5510.8	5133.7
42.5°	6776.5	6869.9	6899.7	6892.3	6713.0	6563.7	6474.1	6179.1	5820.7	5787.1	5402.5
45°	6522.6	6500.2	6664.5	6754.1	6720.5	6642.1	6657.0	6470.4	6138.1	6104.5	5712.4
47.5°	6182.9	6153.0	6246.3	6466.6	6597.3	6672.0	6821.3	6772.8	6504.0	6474.1	6074.6
50°	5466.0	5507.1	5854.3	6149.3	6406.9	6664.5	6959.5	7097.6	6907.2	6877.3	6462.9
52.5°	4670.8	4711.8	5074.0	5753.5	6175.4	6608.5	7060.3	7422.4	7344.0	7310.4	6877.3
55°	4092.0	4181.7	4592.3	5085.2	5846.8	6433.0	7120.0	7754.7	7814.5	7784.6	7329.1
57.5°	3517.1	3584.3	3894.2	4331.0	5398.8	6126.9	7116.3	8064.6	8307.3	8277.4	7788.3
60°	2841.3	2927.2	3173.6	3644.0	4801.4	5761.0	7011.7	8307.3	8781.5	8759.1	8232.6
62.5°	2378.3	2404.4	2579.9	2986.9	4032.3	5298.0	6776.5	8438.0	9210.8	9195.9	8632.1
65°	1915.3	1919.1	2079.6	2419.4	3289.3	4723.0	6377.0	8389.4	9535.7	9543.1	8919.6
67.5°	1478.5	1497.2	1642.8	1900.4	2613.5	3976.3	5805.8	8060.9	9539.4	9558.1	8755.3
70°	1023.0	1037.9	1258.2	1508.4	2019.9	3169.8	5032.9	7190.9	8755.3	8770.3	7848.1
72.5°	720.6	728.1	963.3	1206.0	1579.3	2389.5	3797.1	5947.7	7463.5	7474.7	6601.0
75°	537.6	545.1	679.5	914.7	1209.7	1654.0	2594.9	4555.0	5962.6	5962.6	5212.1
77.5°	380.8	384.6	440.6	631.0	806.5	1116.4	1560.7	2983.2	4375.8	4383.3	3797.1
80°	257.6	261.4	287.5	425.6	504.0	604.8	847.5	1564.4	2759.1	2770.3	2411.9
82.5°	134.4	141.9	160.5	216.5	253.9	336.0	436.8	795.3	1527.0	1556.9	1448.6
85°	52.3	52.3	59.7	70.9	93.3	130.7	201.6	302.4	690.7	713.1	638.4
87.5°	18.7	18.7	22.4	22.4	26.1	29.9	33.6	44.8	78.4	78.4	74.7
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°	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2	4062.2
2.5°	4024.8	4024.8	4006.2	4013.6	4009.9	4002.4	3995.0	4006.2	3995.0	3968.8	3965.1
5°	4032.3	4024.8	3995.0	3991.2	3980.0	3965.1	3946.4	3953.9	3935.2	3912.8	3909.1
7.5°	4036.0	4021.1	3980.0	3965.1	3942.7	3912.8	3883.0	3883.0	3856.8	3834.4	3830.7
10°	4028.6	4009.9	3953.9	3924.0	3883.0	3838.2	3797.1	3785.9	3756.0	3729.9	3729.9
12.5°	4032.3	4006.2	3935.2	3886.7	3830.7	3774.7	3722.4	3707.5	3681.3	3655.2	3651.5
15°	4054.7	4017.4	3927.8	3864.3	3782.2	3718.7	3662.7	3651.5	3629.1	3610.4	3610.4
17.5°	4077.1	4028.6	3916.6	3827.0	3726.2	3655.2	3602.9	3602.9	3588.0	3576.8	3576.8
20°	4088.3	4032.3	3894.2	3774.7	3658.9	3584.3	3535.7	3543.2	3539.5	3535.7	3535.7
22.5°	4114.4	4039.8	3875.5	3726.2	3588.0	3509.6	3464.8	3476.0	3472.3	3472.3	3476.0
25°	4155.5	4058.4	3860.6	3681.3	3520.8	3434.9	3386.4	3393.9	3393.9	3393.9	3393.9
27.5°	4211.5	4095.8	3856.8	3640.3	3453.6	3356.5	3296.8	3296.8	3281.8	3285.6	3289.3
30°	4297.4	4166.7	3864.3	3602.9	3382.7	3259.4	3188.5	3177.3	3173.6	3181.0	3184.8
32.5°	4401.9	4263.8	3909.1	3576.8	3308.0	3151.2	3061.6	3057.8	3046.6	3046.6	3046.6
35°	4532.6	4357.1	3950.2	3573.1	3233.3	3035.4	2938.4	2927.2	2901.0	2889.8	2889.8
37.5°	4700.6	4502.7	3998.7	3546.9	3169.8	2923.4	2807.7	2770.3	2740.5	2736.7	2736.7
40°	4906.0	4667.0	4069.6	3517.1	3102.6	2807.7	2654.6	2591.1	2594.9	2609.8	2609.8
42.5°	5148.7	4868.6	4159.2	3502.1	3005.6	2688.2	2475.4	2400.7	2426.9	2441.8	2445.5
45°	5432.4	5107.6	4260.1	3483.5	2916.0	2553.8	2285.0	2191.6	2202.8	2206.6	2210.3
47.5°	5761.0	5372.7	4364.6	3468.5	2815.1	2385.8	2075.9	1952.7	1948.9	1926.5	1934.0
50°	6104.5	5652.7	4472.9	3442.4	2691.9	2187.9	1855.6	1710.0	1680.1	1646.5	1650.3
52.5°	6470.4	5940.2	4573.7	3401.3	2538.9	1986.3	1646.5	1489.7	1430.0	1392.6	1400.1
55°	6873.6	6235.1	4670.8	3337.9	2378.3	1784.7	1459.8	1299.3	1224.6	1194.8	1198.5
57.5°	7243.2	6518.9	4741.7	3259.4	2202.8	1601.7	1295.6	1138.8	1090.2	1086.5	1090.2
60°	7601.6	6757.8	4771.6	3151.2	2023.6	1433.7	1142.5	1023.0	989.4	1008.1	1011.8
62.5°	7904.1	6910.9	4756.6	3005.6	1840.7	1273.2	1019.3	933.4	911.0	948.3	952.1
65°	8079.5	6959.5	4652.1	2796.5	1642.8	1116.4	903.5	810.2	799.0	821.4	832.6
67.5°	7848.1	6657.0	4368.3	2509.0	1422.5	970.7	791.5	716.9	698.2	716.9	716.9
70°	6955.7	5768.4	3696.3	2053.5	1179.8	828.9	687.0	634.7	619.8	634.7	631.0
72.5°	5794.6	4797.7	2912.2	1601.7	929.7	698.2	597.4	548.8	533.9	519.0	511.5
75°	4495.3	3644.0	2113.2	1176.1	701.9	560.0	500.3	455.5	418.2	433.1	425.6
77.5°	3293.1	2557.5	1497.2	813.9	504.0	433.1	392.0	358.4	332.3	362.2	358.4
80°	2120.7	1654.0	1000.6	545.1	347.2	302.4	287.5	268.8	295.0	384.6	392.0
82.5°	1295.6	1049.1	597.4	354.7	227.8	201.6	186.7	186.7	302.4	332.3	336.0
85°	578.7	556.3	324.8	182.9	126.9	115.7	104.5	134.4	123.2	89.6	93.3
87.5°	93.3	97.1	70.9	63.5	48.5	48.5	37.3	26.1	18.7	11.2	11.2
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)