

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: P841004

Luminaire Tested: **ARCH4-120-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841004
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: ARCH4-120-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18022 lumens
Efficiency: N/A
Efficacy: 147.7 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

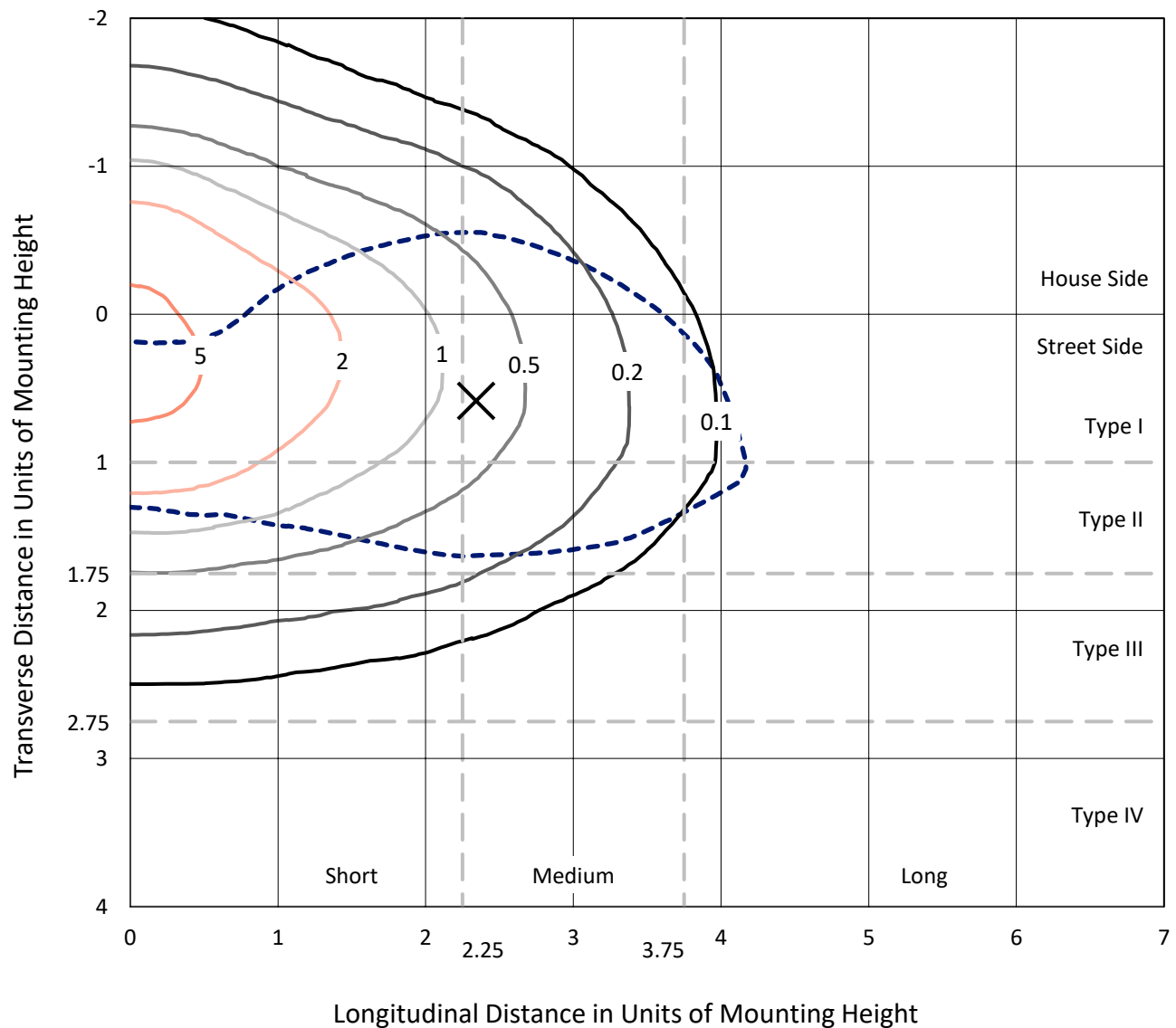
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

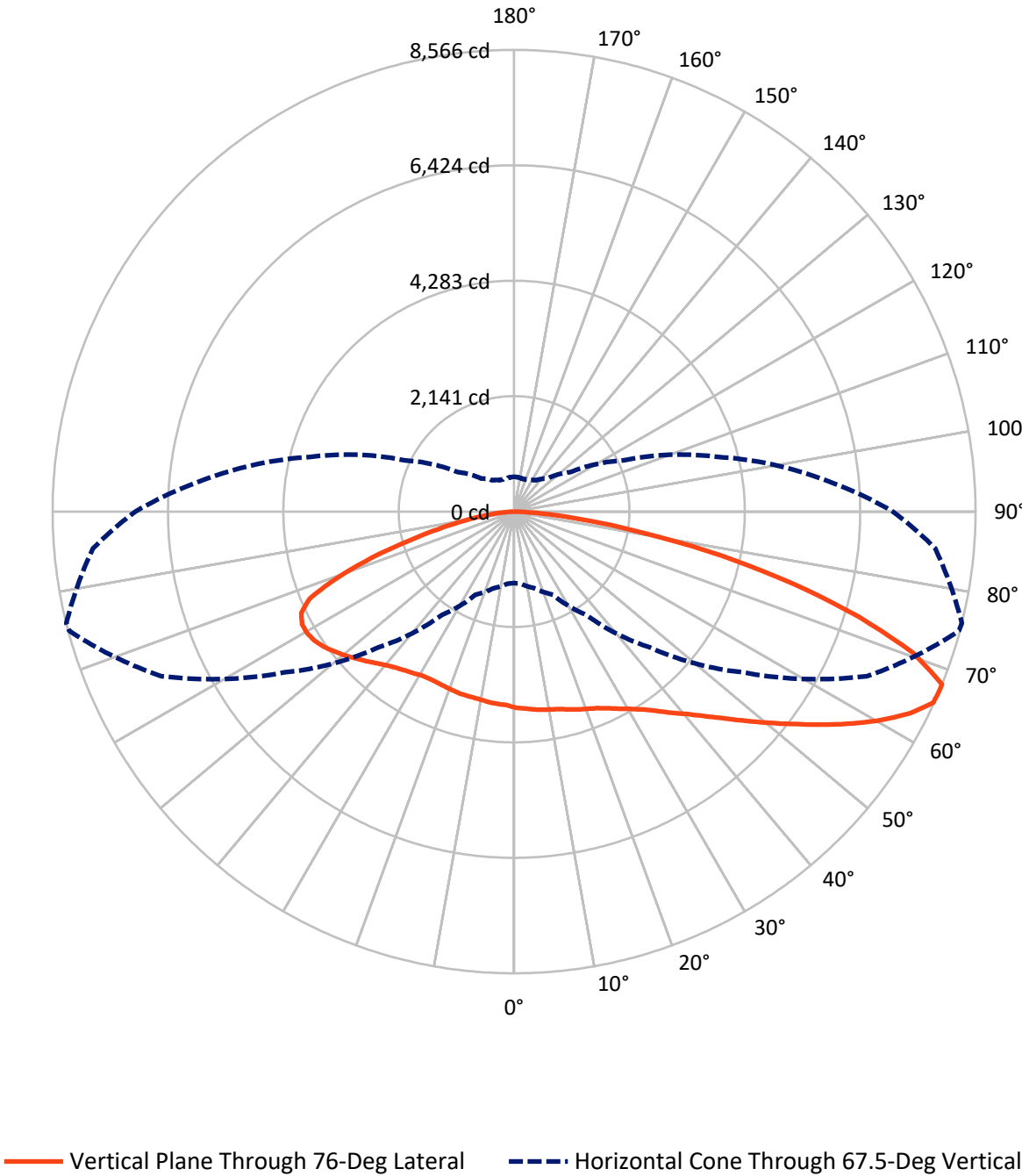
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	6089.7	0.0	6089.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	11932.3	0.0	11932.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	18022.0	0.0	18022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.0	1.9
10°-20°	1073.2	6.0
20°-30°	1823.4	10.1
30°-40°	2594.4	14.4
40°-50°	3276.6	18.2
50°-60°	3547.6	19.7
60°-70°	3299.6	18.3
70°-80°	1772.2	9.8
80°-90°	284.0	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°	18022.0	100.0
0°-180°	18022.0	100.0

Coefficient of Utilization



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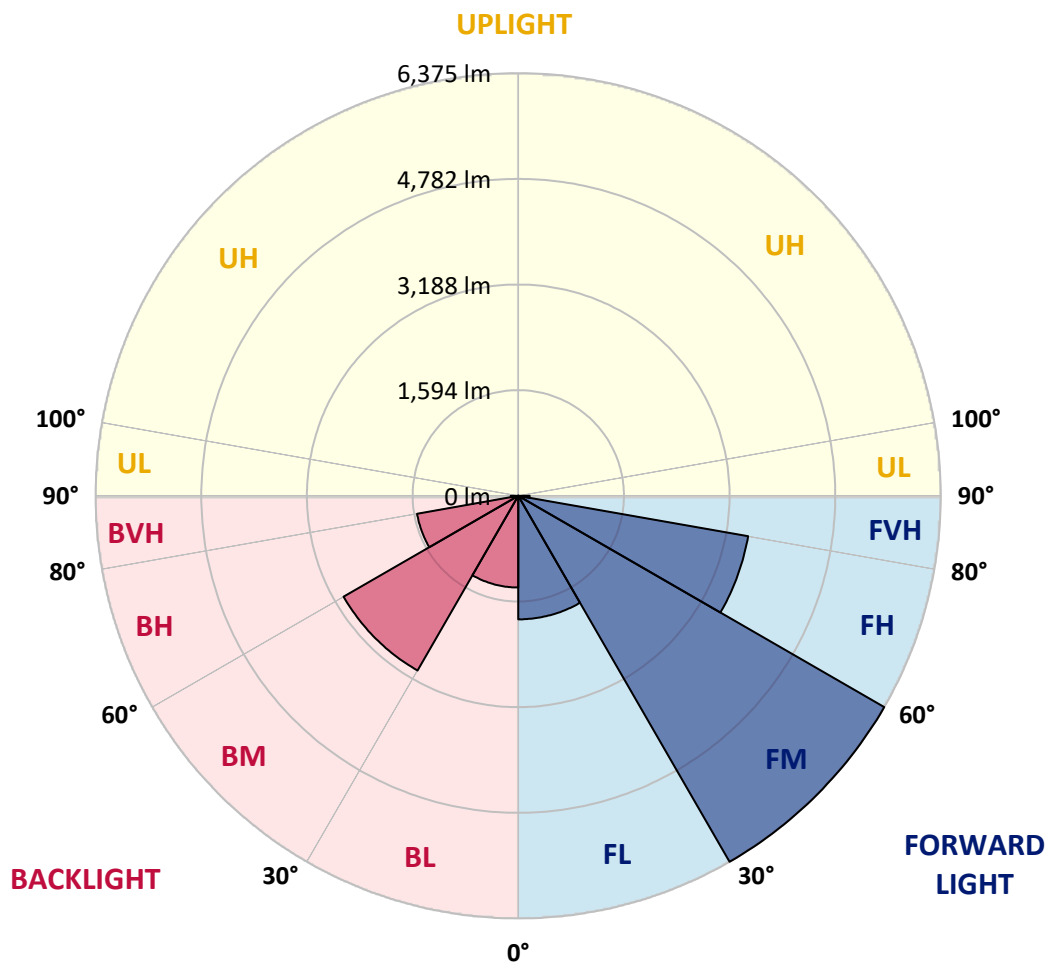
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.7	10.3			
FM	(30°-60°)	6375.5	35.4			
FH	(60°-80°)	3521.3	19.5			G2/5000
FVH	(80°-90°)	171.8	1.0			G2/225
BL	(0°-30°)	1383.9	7.7	B3/2500		
BM	(30°-60°)	3043.1	16.9	B3/5000		
BH	(60°-80°)	1550.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	112.2	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°	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4
2.5°	3750.8	3744.1	3717.4	3720.7	3720.7	3717.4	3677.2	3660.5	3660.5	3657.1	3620.3
5°	3884.7	3874.6	3844.5	3837.8	3824.4	3807.7	3744.1	3707.3	3690.6	3687.2	3637.1
7.5°	4041.9	4028.5	3991.7	3971.7	3938.2	3894.7	3814.4	3757.5	3717.4	3714.0	3643.8
10°	4199.2	4185.8	4142.3	4105.5	4058.6	3988.4	3884.7	3801.0	3737.4	3730.7	3647.1
12.5°	4386.6	4373.2	4319.6	4272.8	4202.5	4108.8	3971.7	3857.9	3770.9	3760.9	3657.1
15°	4584.0	4563.9	4510.4	4456.8	4369.8	4249.4	4085.4	3934.8	3824.4	3807.7	3687.2
17.5°	4747.9	4721.1	4677.7	4624.1	4527.1	4386.6	4199.2	4011.8	3874.6	3861.2	3717.4
20°	4888.4	4868.4	4821.5	4771.3	4667.6	4513.7	4306.3	4088.8	3921.5	3904.7	3740.8
22.5°	5022.3	4995.5	4968.8	4931.9	4818.2	4647.5	4430.1	4182.4	3981.7	3961.6	3770.9
25°	5176.2	5146.1	5136.0	5116.0	4982.1	4808.1	4580.6	4299.6	4065.3	4041.9	3824.4
27.5°	5366.9	5333.5	5313.4	5313.4	5152.8	4972.1	4741.2	4436.7	4162.4	4142.3	3891.4
30°	5567.7	5527.5	5497.4	5497.4	5316.7	5136.0	4898.5	4573.9	4272.8	4249.4	3978.3
32.5°	5745.0	5704.9	5671.4	5668.1	5480.7	5300.0	5062.4	4724.5	4406.6	4376.5	4085.4
35°	5882.2	5845.4	5815.3	5822.0	5644.6	5467.3	5246.5	4925.3	4573.9	4540.5	4225.9
37.5°	5965.8	5952.5	5935.7	5959.2	5795.2	5627.9	5437.2	5119.3	4764.6	4734.5	4399.9
40°	6009.3	5999.3	6066.2	6096.3	5922.3	5771.8	5627.9	5320.1	4972.1	4938.6	4600.7
42.5°	6072.9	6156.6	6183.3	6176.6	6016.0	5882.2	5801.9	5537.6	5216.4	5186.2	4841.6
45°	5845.4	5825.3	5972.5	6052.8	6022.7	5952.5	5965.8	5798.5	5500.8	5470.6	5119.3
47.5°	5540.9	5514.1	5597.8	5795.2	5912.3	5979.2	6113.1	6069.6	5828.7	5801.9	5443.9
50°	4898.5	4935.3	5246.5	5510.8	5741.7	5972.5	6236.9	6360.7	6190.0	6163.3	5791.9
52.5°	4185.8	4222.6	4547.2	5156.1	5534.2	5922.3	6327.2	6651.8	6581.5	6551.4	6163.3
55°	3667.2	3747.5	4115.5	4557.2	5239.8	5765.1	6380.7	6949.6	7003.1	6976.3	6568.1
57.5°	3151.9	3212.1	3489.8	3881.3	4838.3	5490.7	6377.4	7227.3	7444.8	7418.0	6979.7
60°	2546.3	2623.2	2844.1	3265.7	4302.9	5162.8	6283.7	7444.8	7869.7	7849.6	7377.8
62.5°	2131.4	2154.8	2312.1	2676.8	3613.6	4747.9	6072.9	7561.9	8254.5	8241.1	7735.9
65°	1716.5	1719.8	1863.7	2168.2	2947.8	4232.6	5714.9	7518.4	8545.6	8552.3	7993.5
67.5°	1325.0	1341.7	1472.2	1703.1	2342.2	3563.4	5203.0	7223.9	8548.9	8565.7	7846.3
70°	916.8	930.2	1127.6	1351.8	1810.2	2840.7	4510.4	6444.3	7846.3	7859.7	7033.2
72.5°	645.8	652.5	863.3	1080.7	1415.3	2141.4	3402.8	5330.1	6688.6	6698.6	5915.7
75°	481.8	488.5	609.0	819.8	1084.1	1482.3	2325.4	4082.1	5343.5	5343.5	4671.0
77.5°	341.3	344.6	394.8	565.5	722.7	1000.4	1398.6	2673.4	3921.5	3928.2	3402.8
80°	230.9	234.2	257.6	381.4	451.7	542.0	759.5	1402.0	2472.7	2482.7	2161.5
82.5°	120.5	127.1	143.9	194.1	227.5	301.1	391.5	712.7	1368.5	1395.3	1298.2
85°	46.8	46.8	53.5	63.6	83.6	117.1	180.7	271.0	619.0	639.1	572.2
87.5°	16.7	16.7	20.1	20.1	23.4	26.8	30.1	40.2	70.3	70.3	66.9
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°	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4	3640.4
2.5°	3606.9	3606.9	3590.2	3596.9	3593.6	3586.9	3580.2	3590.2	3580.2	3556.8	3553.4
5°	3613.6	3606.9	3580.2	3576.8	3566.8	3553.4	3536.7	3543.4	3526.6	3506.6	3503.2
7.5°	3617.0	3603.6	3566.8	3553.4	3533.3	3506.6	3479.8	3479.8	3456.4	3436.3	3433.0
10°	3610.3	3593.6	3543.4	3516.6	3479.8	3439.6	3402.8	3392.8	3366.0	3342.6	3342.6
12.5°	3613.6	3590.2	3526.6	3483.1	3433.0	3382.8	3335.9	3322.5	3299.1	3275.7	3272.3
15°	3633.7	3600.3	3519.9	3463.1	3389.5	3332.6	3282.4	3272.3	3252.3	3235.5	3235.5
17.5°	3653.8	3610.3	3509.9	3429.6	3339.3	3275.7	3228.9	3228.9	3215.5	3205.4	3205.4
20°	3663.8	3613.6	3489.8	3382.8	3279.0	3212.1	3168.6	3175.3	3172.0	3168.6	3168.6
22.5°	3687.2	3620.3	3473.1	3339.3	3215.5	3145.2	3105.1	3115.1	3111.7	3111.7	3115.1
25°	3724.1	3637.1	3459.7	3299.1	3155.2	3078.3	3034.8	3041.5	3041.5	3041.5	3041.5
27.5°	3774.2	3670.5	3456.4	3262.3	3095.0	3008.0	2954.5	2954.5	2941.1	2944.4	2947.8
30°	3851.2	3734.1	3463.1	3228.9	3031.4	2921.0	2857.4	2847.4	2844.1	2850.8	2854.1
32.5°	3944.9	3821.1	3503.2	3205.4	2964.5	2824.0	2743.7	2740.3	2730.3	2730.3	2730.3
35°	4062.0	3904.7	3540.0	3202.1	2897.6	2720.3	2633.3	2623.2	2599.8	2589.8	2589.8
37.5°	4212.6	4035.2	3583.5	3178.7	2840.7	2619.9	2516.2	2482.7	2455.9	2452.6	2452.6
40°	4396.6	4182.4	3647.1	3151.9	2780.5	2516.2	2379.0	2322.1	2325.4	2338.8	2338.8
42.5°	4614.1	4363.1	3727.4	3138.5	2693.5	2409.1	2218.4	2151.5	2174.9	2188.3	2191.6
45°	4868.4	4577.3	3817.7	3121.8	2613.2	2288.6	2047.7	1964.1	1974.1	1977.5	1980.8
47.5°	5162.8	4814.8	3911.4	3108.4	2522.9	2138.1	1860.4	1749.9	1746.6	1726.5	1733.2
50°	5470.6	5065.8	4008.5	3085.0	2412.4	1960.7	1662.9	1532.4	1505.7	1475.6	1478.9
52.5°	5798.5	5323.4	4098.8	3048.2	2275.3	1780.1	1475.6	1335.0	1281.5	1248.0	1254.7
55°	6159.9	5587.8	4185.8	2991.3	2131.4	1599.4	1308.3	1164.4	1097.5	1070.7	1074.1
57.5°	6491.2	5842.0	4249.4	2921.0	1974.1	1435.4	1161.0	1020.5	977.0	973.7	977.0
60°	6812.4	6056.2	4276.1	2824.0	1813.5	1284.8	1023.9	916.8	886.7	903.4	906.8
62.5°	7083.4	6193.4	4262.8	2693.5	1649.6	1141.0	913.4	836.5	816.4	849.9	853.2
65°	7240.7	6236.9	4169.1	2506.1	1472.2	1000.4	809.7	726.1	716.0	736.1	746.1
67.5°	7033.2	5965.8	3914.8	2248.5	1274.8	869.9	709.3	642.4	625.7	642.4	642.4
70°	6233.5	5169.5	3312.5	1840.3	1057.3	742.8	615.7	568.8	555.4	568.8	565.5
72.5°	5192.9	4299.6	2609.8	1435.4	833.1	625.7	535.4	491.9	478.5	465.1	458.4
75°	4028.5	3265.7	1893.8	1054.0	629.0	501.9	448.4	408.2	374.7	388.1	381.4
77.5°	2951.1	2292.0	1341.7	729.4	451.7	388.1	351.3	321.2	297.8	324.6	321.2
80°	1900.5	1482.3	896.7	488.5	311.2	271.0	257.6	240.9	264.3	344.6	351.3
82.5°	1161.0	940.2	535.4	317.9	204.1	180.7	167.3	167.3	271.0	297.8	301.1
85°	518.6	498.5	291.1	164.0	113.8	103.7	93.7	120.5	110.4	80.3	83.6
87.5°	83.6	87.0	63.6	56.9	43.5	43.5	33.5	23.4	16.7	10.0	10.0
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)