

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: P836502

Luminaire Tested: **ARCH3-190-750-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25249 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

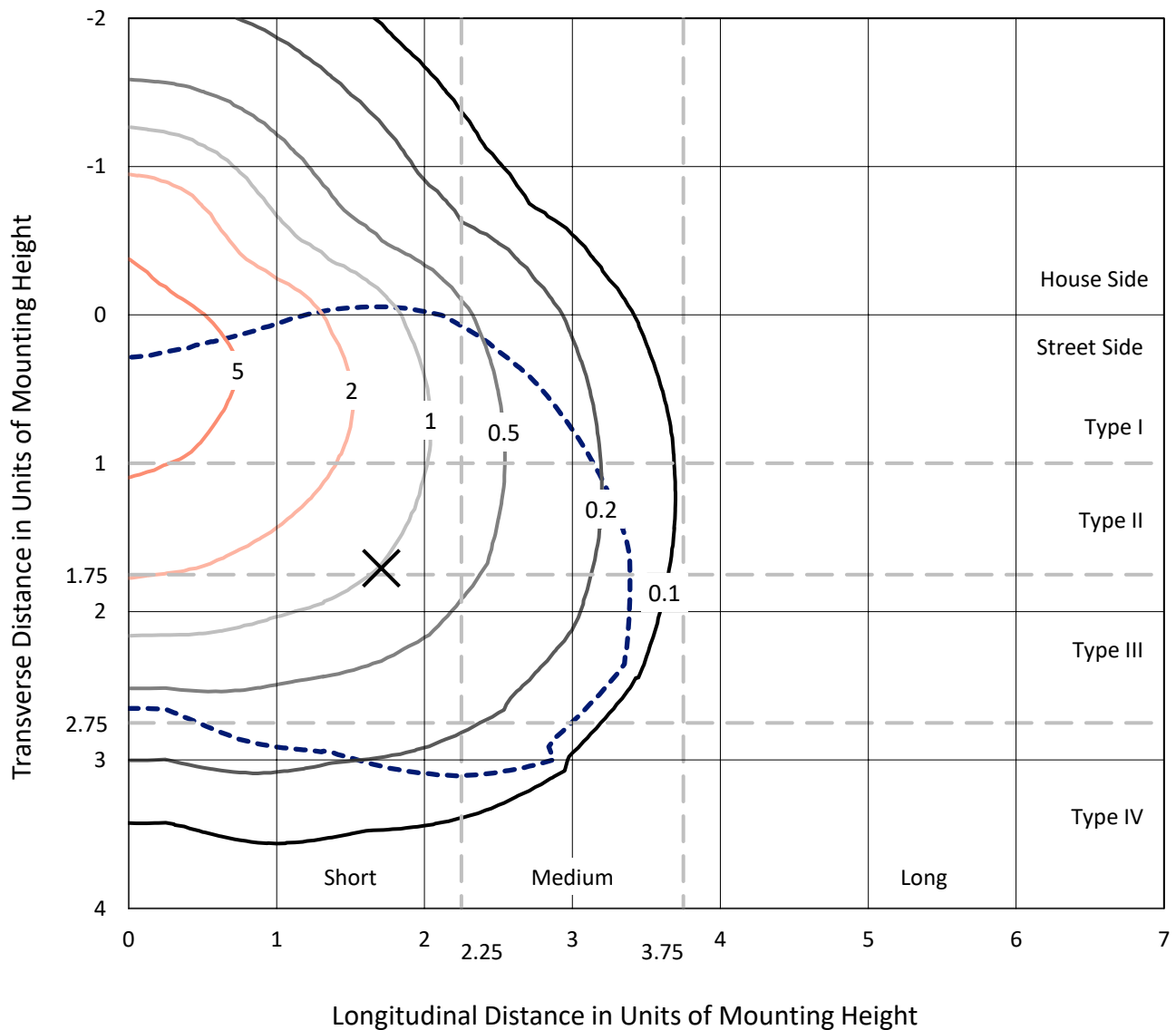
Input Watts (W): 189.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

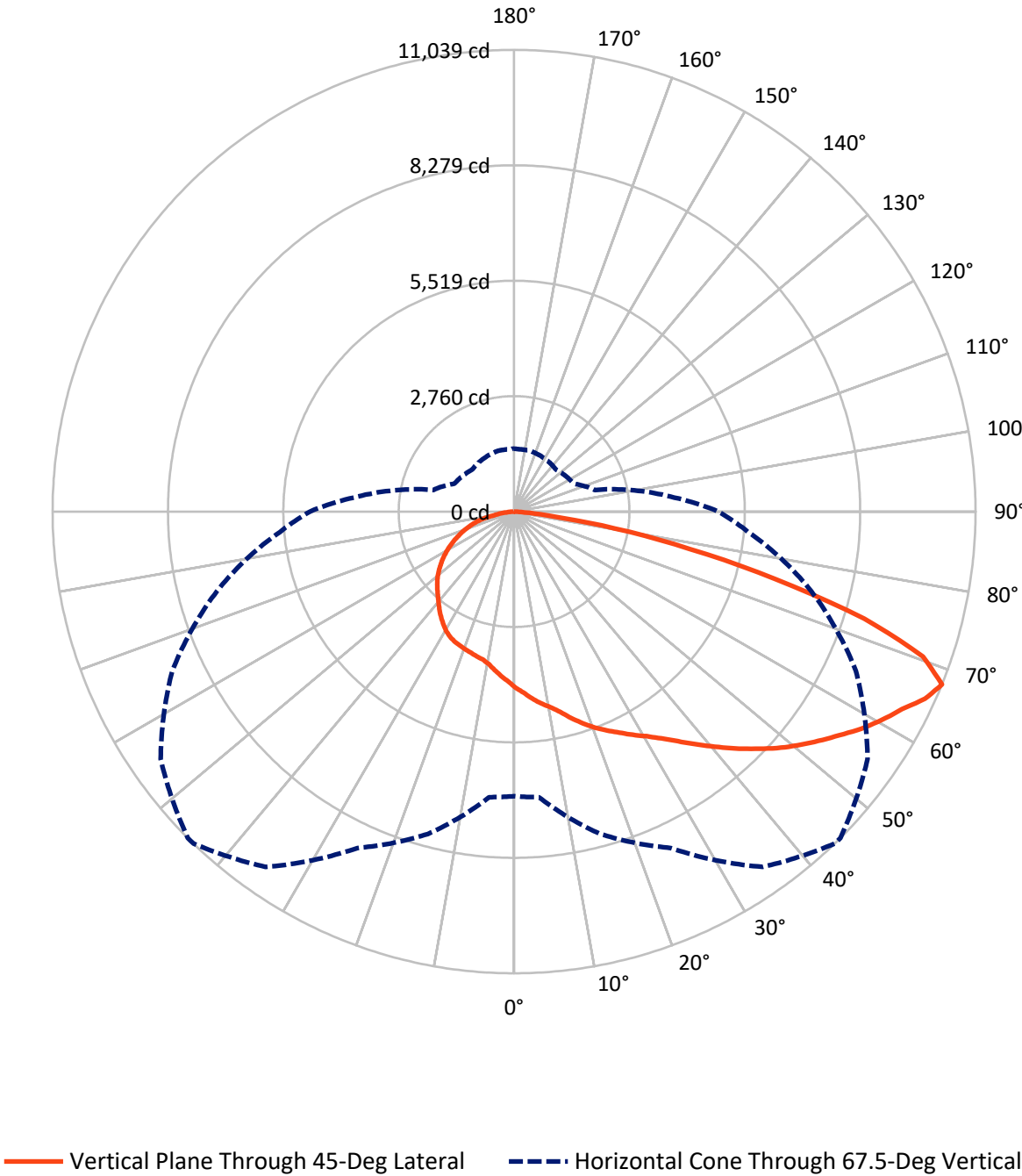
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6745.3	0.0	6745.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	18503.7	0.0	18503.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	25249.0	0.0	25249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.2	1.6
10°-20°	1245.5	4.9
20°-30°	2149.9	8.5
30°-40°	3170.3	12.6
40°-50°	4295.1	17.0
50°-60°	5249.7	20.8
60°-70°	5414.3	21.4
70°-80°	2965.6	11.7
80°-90°	355.4	1.4
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°	25249.0	100.0
0°-180°	25249.0	100.0

Coefficient of Utilization



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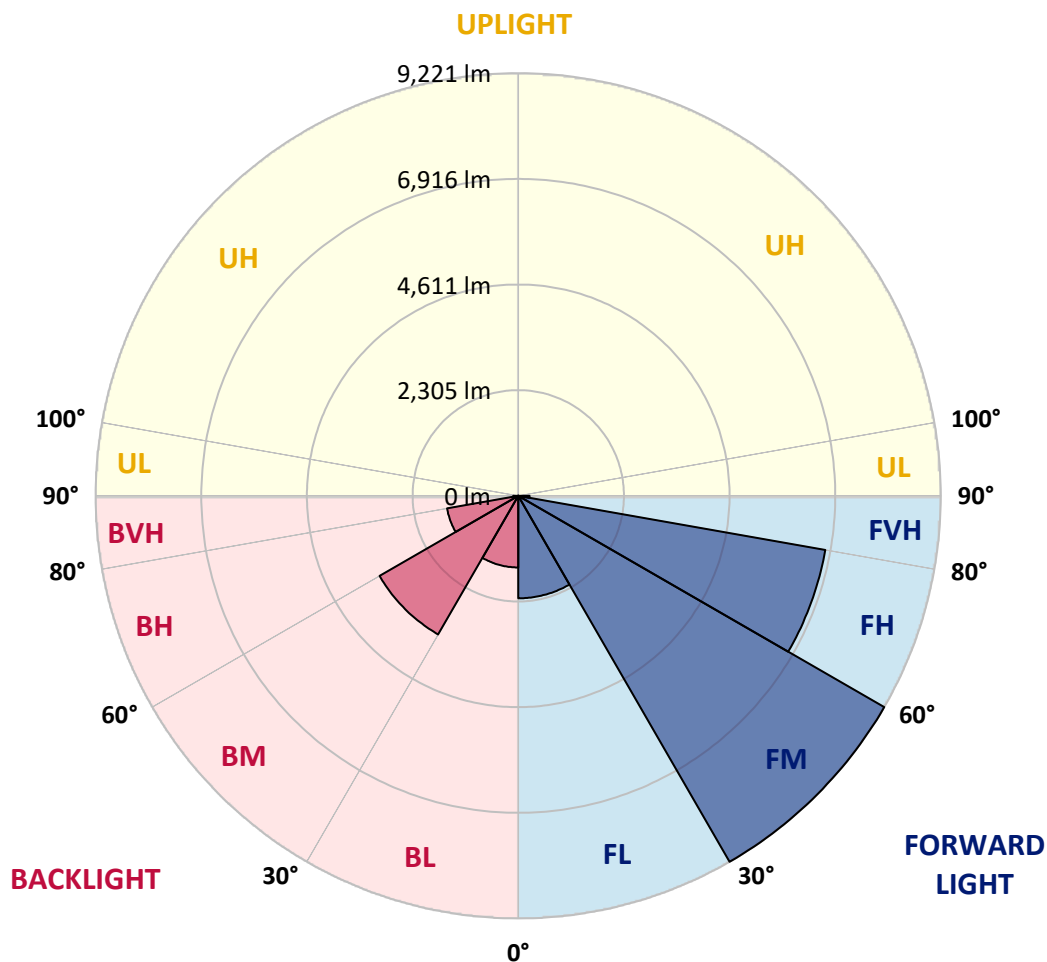
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2235.2	8.9			
FM	(30°-60°)	9221.2	36.5			
FH	(60°-80°)	6802.5	26.9			G3/7500
FVH	(80°-90°)	244.9	1.0			G3/500
BL	(0°-30°)	1563.3	6.2	B3/2500		
BM	(30°-60°)	3494.0	13.8	B3/5000		
BH	(60°-80°)	1577.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	110.6	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1
2.5°	4395.5	4391.6	4399.3	4372.4	4337.8	4334.0	4334.0	4311.0	4284.1	4230.3	4188.0
5°	4603.0	4595.3	4599.1	4560.7	4514.6	4491.5	4487.7	4437.7	4376.3	4291.7	4214.9
7.5°	4795.1	4787.4	4783.5	4741.3	4672.1	4633.7	4629.9	4556.9	4483.9	4353.2	4241.8
10°	4975.7	4968.0	4960.3	4902.7	4818.1	4760.5	4752.8	4660.6	4568.4	4407.0	4264.8
12.5°	5206.2	5190.8	5183.1	5114.0	4991.0	4929.5	4918.0	4795.1	4679.8	4483.9	4311.0
15°	5448.2	5436.7	5425.2	5359.9	5221.6	5140.9	5121.7	4968.0	4810.4	4583.7	4380.1
17.5°	5628.8	5617.3	5617.3	5559.7	5432.9	5340.7	5325.3	5140.9	4944.9	4676.0	4433.9
20°	5740.3	5728.7	5740.3	5705.7	5609.6	5532.8	5517.4	5313.8	5079.4	4760.5	4480.0
22.5°	5820.9	5809.4	5828.6	5813.3	5744.1	5698.0	5686.5	5486.7	5217.7	4848.9	4526.1
25°	5963.1	5963.1	5963.1	5936.2	5870.9	5855.5	5855.5	5682.6	5394.5	4964.1	4595.3
27.5°	6247.4	6232.1	6212.8	6136.0	6024.6	6020.7	6043.8	5882.4	5598.1	5114.0	4679.8
30°	6666.2	6658.5	6585.5	6424.2	6235.9	6216.7	6232.1	6097.6	5817.1	5271.5	4775.9
32.5°	7208.0	7181.1	7031.2	6789.2	6520.2	6431.8	6462.6	6320.4	6047.6	5432.9	4868.1
35°	7592.2	7599.9	7492.3	7273.3	6954.4	6720.0	6743.1	6570.2	6297.4	5613.5	4983.3
37.5°	8034.0	8060.9	7899.6	7734.4	7438.5	7038.9	7062.0	6827.6	6547.1	5840.1	5106.3
40°	8645.0	8591.2	8318.4	8122.4	7795.8	7373.2	7392.4	7115.8	6835.3	6055.3	5248.4
42.5°	9156.0	9059.9	8729.5	8479.7	8087.8	7726.7	7745.9	7427.0	7127.3	6293.5	5406.0
45°	9889.8	9624.7	9148.3	9025.3	8387.5	8072.5	8091.7	7757.4	7434.7	6547.1	5575.0
47.5°	10316.3	9893.7	9590.1	9524.8	8718.0	8429.8	8452.8	8107.0	7765.1	6835.3	5751.8
50°	10289.4	10016.6	9928.3	9766.9	9010.0	8764.1	8787.1	8468.2	8099.4	7119.6	5920.8
52.5°	10112.7	10162.6	10116.5	9847.6	9302.0	9086.8	9113.7	8825.5	8441.3	7384.7	6078.4
55°	10385.5	10420.1	10331.7	9978.2	9624.7	9409.6	9440.3	9202.1	8779.4	7619.1	6212.8
57.5°	10712.1	10589.1	10500.7	10208.7	9959.0	9759.2	9793.8	9586.3	9071.4	7807.4	6316.6
60°	10696.7	10439.3	10527.6	10224.1	10185.7	10081.9	10112.7	9901.4	9294.3	7945.7	6358.8
62.5°	9909.0	9770.7	10216.4	10112.7	10370.1	10370.1	10408.5	10093.5	9428.8	8003.3	6335.8
65°	8541.2	8548.9	9332.7	9763.0	10589.1	10765.9	10796.6	10212.6	9351.9	7834.3	6120.6
67.5°	6804.5	6854.5	7980.3	8875.5	10370.1	11034.8	11038.6	10320.2	9021.5	7357.8	5621.1
70°	4979.5	5017.9	6347.3	7434.7	9336.6	10439.3	10377.8	10016.6	8303.0	6527.9	4841.2
72.5°	3365.8	3400.3	4768.2	5709.5	7661.4	8890.9	8756.4	8852.4	7077.3	5363.7	3892.2
75°	2263.1	2305.3	3392.7	4084.3	5636.5	6750.8	6451.1	6704.6	5475.1	4061.2	2839.4
77.5°	1425.5	1452.4	2155.5	2678.0	3849.9	4595.3	4295.6	4299.4	3154.4	2186.2	1525.4
80°	906.8	914.4	1306.3	1544.6	2228.5	2762.5	2443.6	1986.4	1421.6	1160.3	910.6
82.5°	526.4	514.9	780.0	872.2	1060.4	1048.9	868.3	822.2	622.4	580.2	464.9
85°	211.3	196.0	342.0	318.9	322.7	342.0	253.6	253.6	203.6	157.5	115.3
87.5°	42.3	42.3	46.1	42.3	42.3	46.1	34.6	34.6	30.7	30.7	30.7
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°	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1	4211.1
2.5°	4180.3	4172.6	4153.4	4103.5	4076.6	4061.2	4038.2	4030.5	4026.6	4030.5	4042.0
5°	4191.8	4164.9	4111.2	4030.5	3976.7	3942.1	3903.7	3888.3	3876.8	3876.8	3888.3
7.5°	4199.5	4157.3	4065.1	3945.9	3869.1	3815.3	3769.2	3750.0	3746.1	3757.7	3761.5
10°	4203.4	4141.9	4011.3	3861.4	3761.5	3692.4	3646.3	3634.7	3646.3	3669.3	3673.1
12.5°	4230.3	4145.7	3980.5	3803.8	3684.7	3615.5	3580.9	3580.9	3611.7	3653.9	3657.8
15°	4276.4	4172.6	3965.2	3757.7	3634.7	3573.2	3561.7	3580.9	3627.0	3692.4	3700.0
17.5°	4311.0	4188.0	3930.6	3696.2	3569.4	3531.0	3550.2	3596.3	3661.6	3750.0	3757.7
20°	4334.0	4188.0	3880.6	3623.2	3504.1	3496.4	3550.2	3623.2	3692.4	3796.1	3807.6
22.5°	4357.1	4180.3	3823.0	3534.8	3431.1	3454.1	3554.0	3646.3	3715.4	3826.8	3846.0
25°	4399.3	4191.8	3765.4	3446.5	3354.2	3419.6	3550.2	3661.6	3734.6	3849.9	3880.6
27.5°	4457.0	4218.7	3723.1	3365.8	3277.4	3365.8	3523.3	3657.8	3734.6	3846.0	3880.6
30°	4518.4	4249.5	3673.1	3277.4	3189.0	3288.9	3465.7	3615.5	3703.9	3807.6	3849.9
32.5°	4583.7	4284.1	3630.9	3181.3	3081.4	3185.2	3381.1	3550.2	3646.3	3742.3	3788.4
35°	4672.1	4345.5	3607.8	3104.5	2985.4	3077.6	3273.6	3465.7	3569.4	3657.8	3711.6
37.5°	4779.7	4422.4	3596.3	3027.7	2881.7	2958.5	3158.3	3361.9	3473.4	3546.4	3596.3
40°	4902.7	4518.4	3592.5	2954.7	2777.9	2835.5	3039.2	3242.8	3350.4	3408.0	3450.3
42.5°	5041.0	4626.0	3584.8	2881.7	2674.2	2720.3	2923.9	3123.7	3215.9	3265.9	3304.3
45°	5187.0	4733.6	3569.4	2793.3	2562.7	2616.5	2804.8	2981.5	3077.6	3119.9	3162.1
47.5°	5333.0	4841.2	3538.7	2693.4	2462.9	2512.8	2678.0	2831.7	2908.5	2947.0	2989.2
50°	5475.1	4937.2	3465.7	2578.1	2359.1	2405.2	2532.0	2635.8	2693.4	2724.1	2766.4
52.5°	5601.9	5002.5	3361.9	2443.6	2255.4	2278.4	2363.0	2451.3	2497.4	2501.3	2539.7
55°	5709.5	5037.1	3212.1	2305.3	2143.9	2147.8	2193.9	2263.1	2282.3	2266.9	2293.8
57.5°	5771.0	5017.9	3046.9	2163.2	2028.7	2013.3	2047.9	2082.5	2086.3	2047.9	2074.8
60°	5786.4	4929.5	2831.7	2021.0	1913.4	1871.2	1882.7	1875.0	1867.3	1851.9	1875.0
62.5°	5709.5	4741.3	2593.5	1882.7	1790.5	1725.1	1721.3	1717.5	1729.0	1732.8	1736.7
65°	5429.0	4387.8	2309.2	1740.5	1659.8	1571.5	1567.6	1613.7	1629.1	1606.0	1613.7
67.5°	4887.3	3846.0	1997.9	1575.3	1494.6	1417.8	1448.5	1475.4	1502.3	1494.6	1502.3
70°	4118.8	3158.3	1713.6	1390.9	1314.0	1271.8	1306.3	1329.4	1333.2	1325.6	1333.2
72.5°	3239.0	2466.7	1448.5	1202.6	1133.4	1114.2	1156.5	1175.7	1210.3	1225.7	1229.5
75°	2339.9	1821.2	1187.2	999.0	941.3	941.3	979.8	1014.3	1045.1	1025.9	1014.3
77.5°	1306.3	1087.3	853.0	687.8	699.3	753.1	768.4	806.9	837.6	833.8	826.1
80°	791.5	680.1	576.3	445.7	441.9	484.1	584.0	649.3	664.7	630.1	626.3
82.5°	411.1	357.3	307.4	249.7	276.6	322.7	338.1	407.3	449.5	434.2	453.4
85°	103.7	99.9	111.4	115.3	142.2	157.5	172.9	203.6	134.5	65.3	65.3
87.5°	30.7	30.7	38.4	38.4	49.9	61.5	57.6	57.6	30.7	3.8	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)