

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: P1211195

Luminaire Tested: **ARCH4-200-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29174 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 203.7
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



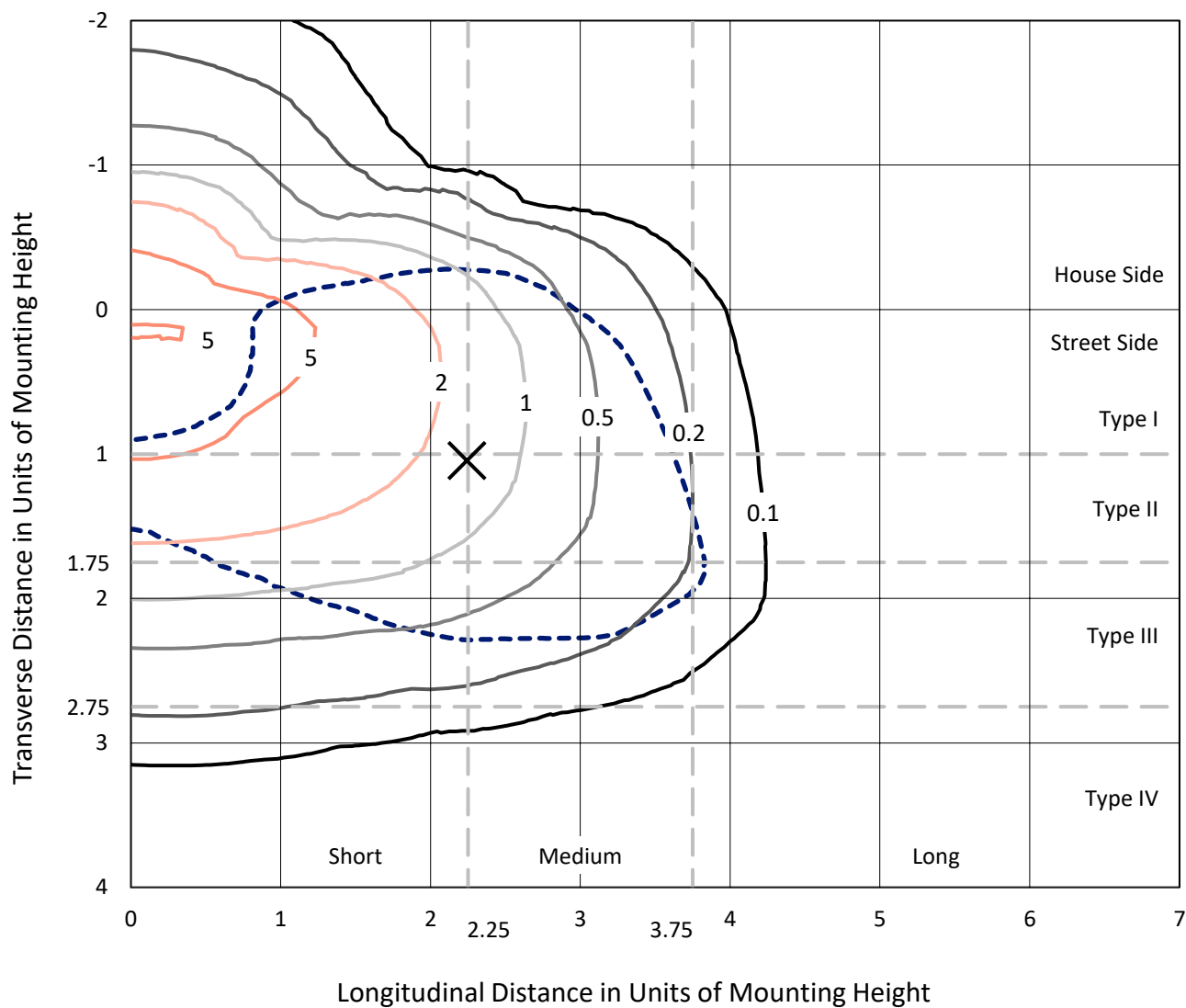
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

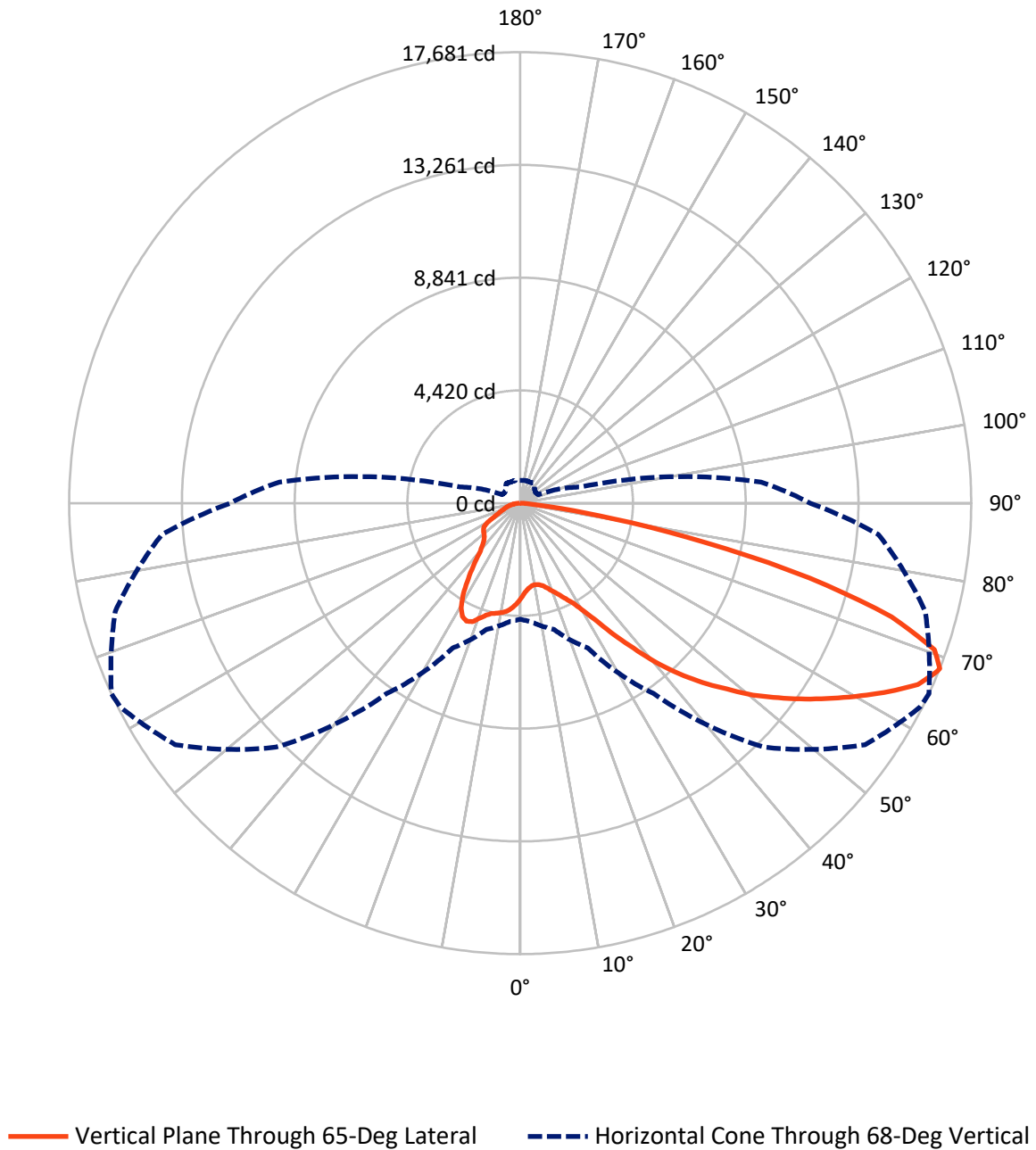
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7152.6	0.0	7152.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	22021.4	0.0	22021.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	29174.0	0.0	29174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.3	1.2
10°-20°	1160.1	4.0
20°-30°	2099.7	7.2
30°-40°	3303.0	11.3
40°-50°	4919.4	16.9
50°-60°	6453.3	22.1
60°-70°	7057.1	24.2
70°-80°	3492.1	12.0
80°-90°	333.1	1.1
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°	29174.0	100.0
0°-180°	29174.0	100.0

Coefficient of Utilization



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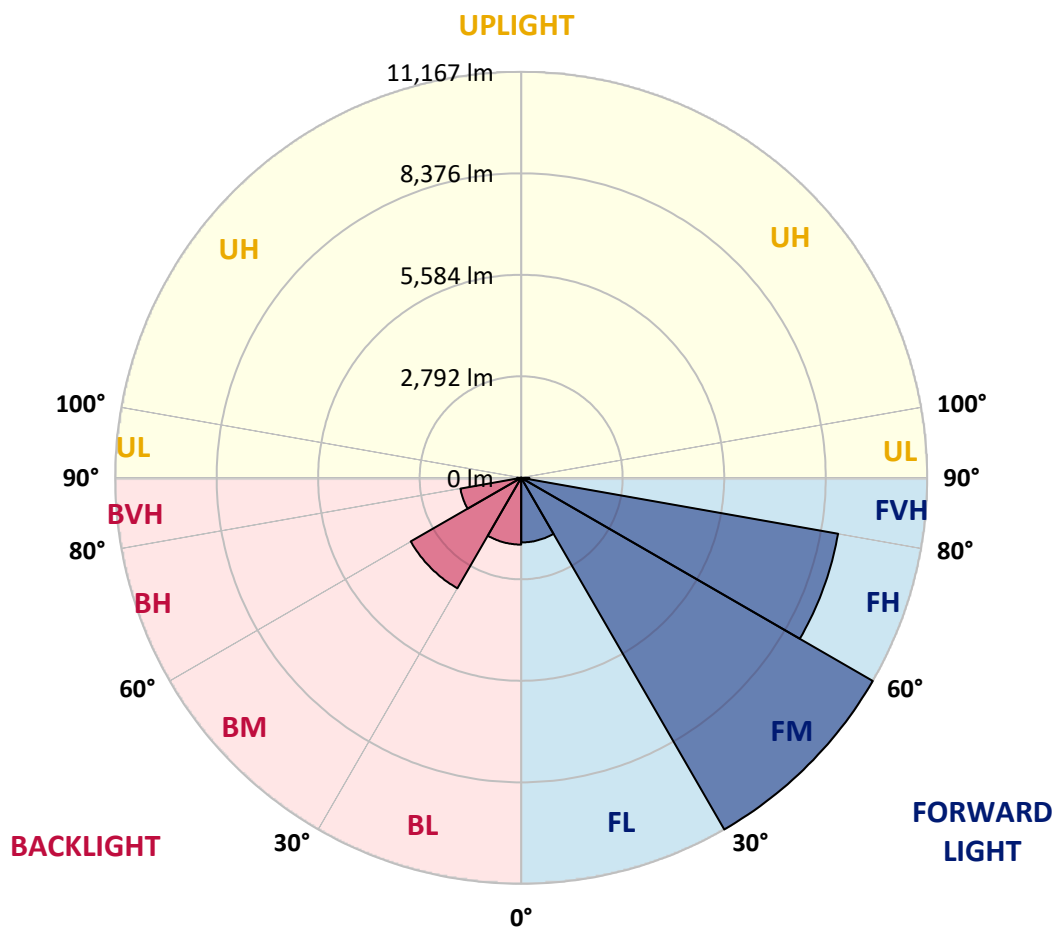
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1778.5	6.1			
FM	(30°-60°)	11167.4	38.3			
FH	(60°-80°)	8851.5	30.3			G4/12000
FVH	(80°-90°)	224.0	0.8			G2/225
BL	(0°-30°)	1837.6	6.3	B3/2500		
BM	(30°-60°)	3508.3	12.0	B3/5000		
BH	(60°-80°)	1697.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	109.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1
2.5°	3254.1	3246.6	3265.4	3284.2	3325.6	3374.5	3442.2	3498.6	3506.1	3611.5	3694.2
5°	3062.2	3050.9	3069.7	3092.3	3111.1	3171.3	3242.8	3325.6	3359.4	3513.7	3690.5
7.5°	3081.0	3077.3	3084.8	3077.3	3077.3	3103.6	3152.5	3235.3	3272.9	3457.2	3709.3
10°	3190.1	3197.6	3201.4	3178.8	3156.3	3145.0	3160.0	3216.5	3242.8	3461.0	3792.0
12.5°	3370.7	3382.0	3385.7	3344.4	3314.3	3265.4	3239.0	3261.6	3280.4	3498.6	3908.7
15°	3615.2	3622.7	3596.4	3570.1	3494.8	3434.7	3370.7	3351.9	3359.4	3577.6	4040.3
17.5°	3901.1	3889.8	3889.8	3825.9	3728.1	3634.0	3528.7	3513.7	3513.7	3705.5	4228.4
20°	4213.4	4224.7	4190.8	4104.3	4006.5	3859.8	3754.4	3686.7	3694.2	3852.2	4457.9
22.5°	4664.8	4683.6	4593.3	4469.2	4318.7	4149.4	3998.9	3889.8	3893.6	4044.1	4694.9
25°	5150.1	5157.6	5101.2	4935.7	4732.5	4491.8	4292.4	4153.2	4149.4	4258.5	4999.6
27.5°	5646.7	5680.5	5567.7	5409.7	5221.6	4920.6	4657.3	4469.2	4439.1	4585.8	5379.6
30°	6158.3	6199.7	6090.6	5936.3	5703.1	5447.3	5135.0	4916.9	4898.0	5093.7	5887.4
32.5°	6673.7	6685.0	6598.4	6470.5	6259.9	6019.1	5767.1	5526.3	5507.5	5827.2	6545.8
35°	7095.0	7128.9	7068.7	7038.6	6884.4	6662.4	6417.9	6278.7	6327.6	6737.6	7399.7
37.5°	7602.9	7636.7	7569.0	7561.5	7512.6	7320.7	7151.4	7162.7	7211.6	7768.4	8298.8
40°	8336.5	8374.1	8201.0	8125.8	8125.8	7937.7	7881.3	8148.4	8212.3	8784.1	9235.6
42.5°	8957.2	9017.4	8915.8	8866.9	8720.2	8588.5	8656.2	9032.4	9141.5	9754.7	10051.9
45°	9258.1	9303.3	9423.7	9566.6	9423.7	9194.2	9450.0	9875.1	10029.3	10650.1	10868.2
47.5°	9419.9	9461.3	9600.5	9984.2	10082.0	9890.1	10251.3	10781.7	10887.1	11537.9	11647.0
50°	9442.5	9574.1	9754.7	10138.4	10586.1	10612.4	11056.3	11703.4	11827.5	12410.6	12331.6
52.5°	9258.1	9310.8	9683.2	10330.3	10826.9	11278.3	11932.9	12587.5	12677.7	13230.7	12937.3
55°	8957.2	9032.4	9404.8	10285.1	11060.1	11910.3	12824.5	13456.5	13558.0	14028.3	13497.8
57.5°	8686.3	8723.9	9122.7	10153.5	11293.3	12542.3	13618.2	14363.1	14430.8	14728.0	13911.7
60°	8385.4	8426.7	8825.5	9871.3	11466.4	13020.1	14445.8	15277.2	15337.4	15465.3	14393.2
62.5°	7606.6	7715.7	8216.1	9404.8	11421.2	13565.6	15329.9	16180.1	16255.3	16116.2	14773.1
65°	6177.1	6331.3	6944.5	8347.7	10999.9	13919.2	16052.2	17011.5	17139.4	16605.2	14874.7
67.5°	4796.5	4905.6	5398.4	6624.8	9521.5	13742.4	16518.7	17583.3	17620.9	16526.2	14310.4
68°	4548.2	4657.3	5127.5	6263.6	9111.4	13531.7	16507.4	17598.4	17681.1	16439.7	14092.2
70°	3479.8	3603.9	4051.6	4962.0	7343.3	12192.4	15819.0	17237.2	17225.9	15393.9	12737.9
72.5°	2174.4	2245.9	2554.4	3129.9	4856.7	9276.9	13426.4	15202.0	15232.1	12549.8	9769.8
75°	1380.6	1380.6	1365.6	1516.1	2490.4	5285.5	9980.4	11703.4	11726.0	8787.9	6158.3
77.5°	1200.1	1166.2	1004.4	850.2	993.2	2054.0	5906.2	7557.7	7433.6	4732.5	2923.0
80°	1012.0	955.5	823.9	684.7	639.5	643.3	2268.4	3837.2	3671.7	1704.2	970.6
82.5°	729.8	680.9	620.7	538.0	492.8	383.7	474.0	1109.8	1083.4	492.8	316.0
85°	395.0	357.4	349.9	353.6	297.2	237.0	199.4	244.5	244.5	214.4	180.6
87.5°	139.2	101.6	120.4	135.4	116.6	97.8	79.0	94.0	97.8	94.0	86.5
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°	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1	3728.1
2.5°	3743.1	3780.7	3871.0	3950.0	4006.5	4055.4	4081.7	4093.0	4119.3	4123.1	4115.6
5°	3773.2	3871.0	4006.5	4123.1	4187.0	4213.4	4220.9	4224.7	4213.4	4220.9	4213.4
7.5°	3852.2	3976.4	4168.2	4269.8	4281.1	4239.7	4243.5	4228.4	4243.5	4258.5	4258.5
10°	3972.6	4130.6	4311.2	4348.8	4299.9	4277.3	4322.5	4412.8	4442.9	4484.2	4484.2
12.5°	4130.6	4318.7	4446.6	4412.8	4367.6	4442.9	4574.5	4664.8	4694.9	4709.9	4698.7
15°	4311.2	4514.3	4578.3	4465.4	4548.2	4709.9	4755.1	4702.4	4627.2	4593.3	4612.1
17.5°	4540.7	4709.9	4672.3	4597.1	4785.2	4807.8	4661.0	4491.8	4371.4	4326.2	4356.3
20°	4781.4	4928.1	4755.1	4788.9	4905.6	4664.8	4386.4	4168.2	4062.9	4044.1	4074.2
22.5°	5037.2	5131.3	4837.9	5010.9	4837.9	4348.8	4014.0	3901.1	3874.8	3904.9	3931.2
25°	5326.9	5315.6	4980.8	5078.6	4585.8	3961.3	3761.9	3754.4	3754.4	3773.2	3810.8
27.5°	5654.2	5477.4	5123.8	4988.3	4149.4	3641.6	3603.9	3607.7	3596.4	3600.2	3619.0
30°	6034.2	5695.6	5281.8	4691.1	3660.4	3400.8	3385.7	3374.5	3348.1	3340.6	3348.1
32.5°	6511.9	5925.1	5443.5	4202.1	3231.5	3152.5	3145.0	3084.8	3020.8	3013.3	3039.6
35°	7117.6	6342.6	5526.3	3588.9	2877.9	2874.1	2847.8	2753.7	2671.0	2671.0	2652.2
37.5°	7809.8	6880.6	5560.1	2990.7	2584.5	2603.3	2528.0	2407.6	2343.7	2306.1	2317.4
40°	8517.0	7493.8	5556.4	2467.8	2328.6	2332.4	2276.0	2129.3	1971.3	1877.2	1899.8
42.5°	9197.9	8050.6	5458.6	2189.4	2121.7	2110.4	2065.3	1865.9	1734.3	1659.0	1662.8
45°	9743.4	8626.1	5308.1	2023.9	1933.6	1952.4	1850.9	1730.5	1610.1	1542.4	1538.6
47.5°	10288.9	9062.5	5067.3	1922.4	1794.4	1760.6	1719.2	1636.4	1546.2	1470.9	1474.7
50°	10785.5	9434.9	4841.6	1854.6	1666.5	1580.0	1587.5	1538.6	1459.6	1391.9	1388.2
52.5°	11135.3	9679.5	4717.5	1817.0	1512.3	1418.3	1444.6	1418.3	1343.0	1294.1	1290.3
55°	11485.2	9867.6	4758.9	1768.1	1343.0	1267.8	1312.9	1305.4	1264.0	1249.0	1252.7
57.5°	11767.3	10010.5	4905.6	1677.8	1181.2	1136.1	1211.3	1188.8	1158.7	1162.4	1162.4
60°	12042.0	10194.9	5078.6	1470.9	1042.1	1045.8	1117.3	1075.9	1057.1	1091.0	1094.7
62.5°	12327.9	10394.2	4935.7	1170.0	921.7	948.0	1030.8	996.9	1004.4	1053.3	1068.4
65°	12294.0	10375.4	4021.5	959.3	816.3	869.0	993.2	981.9	985.6	1004.4	1012.0
67.5°	11601.8	9713.3	2765.0	816.3	741.1	805.1	963.1	917.9	921.7	910.4	914.2
68°	11368.6	9480.1	2437.7	793.8	726.1	790.0	948.0	906.6	910.4	899.1	895.3
70°	10097.0	8118.3	1542.4	699.7	673.4	748.6	872.8	857.7	854.0	846.4	846.4
72.5°	7696.9	5992.8	812.6	605.7	613.2	684.7	778.7	808.8	790.0	793.8	816.3
75°	5097.4	3603.9	564.3	519.1	538.0	586.9	692.2	752.4	733.6	744.9	733.6
77.5°	2697.3	1941.2	451.4	440.1	440.1	474.0	571.8	665.9	665.9	658.3	647.1
80°	884.1	684.7	361.1	346.1	353.6	372.4	459.0	545.5	556.8	541.7	534.2
82.5°	297.2	316.0	270.9	252.0	259.6	274.6	346.1	417.6	421.3	391.2	383.7
85°	184.3	210.7	169.3	165.5	165.5	169.3	210.7	229.5	210.7	188.1	195.6
87.5°	86.5	105.3	79.0	67.7	56.4	48.9	37.6	15.0	15.0	7.5	7.5
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)