

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: P1211253

Luminaire Tested: **ARCH4-220-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28446 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 221.8
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

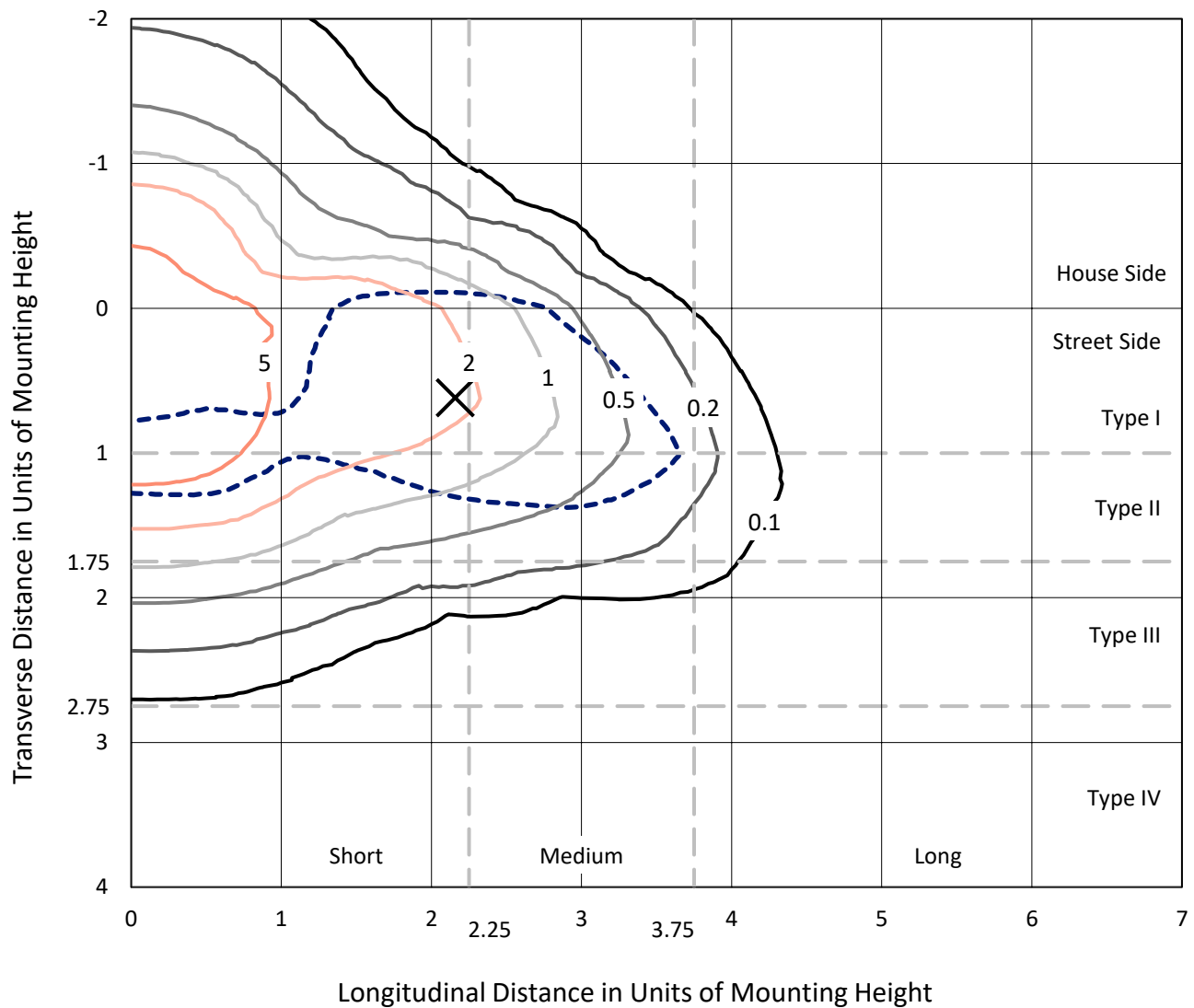


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Iso-Footcandle Lines of Horizontal Illumination

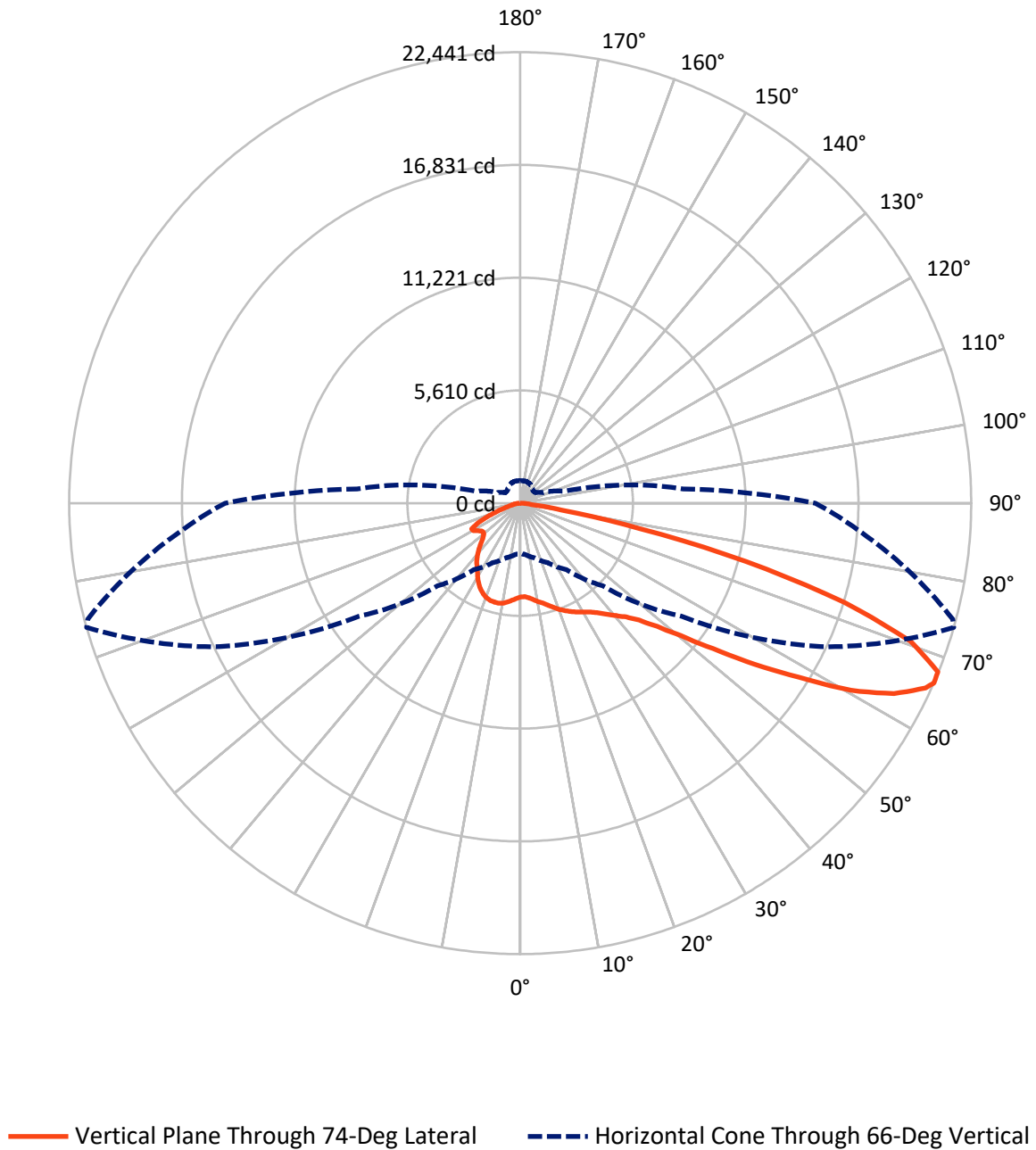
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6927.4	0.0	6927.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	21518.6	0.0	21518.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	28446.0	0.0	28446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.8	1.6
10°-20°	1367.9	4.8
20°-30°	2567.0	9.0
30°-40°	3948.6	13.9
40°-50°	5311.2	18.7
50°-60°	6281.1	22.1
60°-70°	5810.4	20.4
70°-80°	2444.4	8.6
80°-90°	270.5	1.0
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°	28446.0	100.0
0°-180°	28446.0	100.0

Coefficient of Utilization



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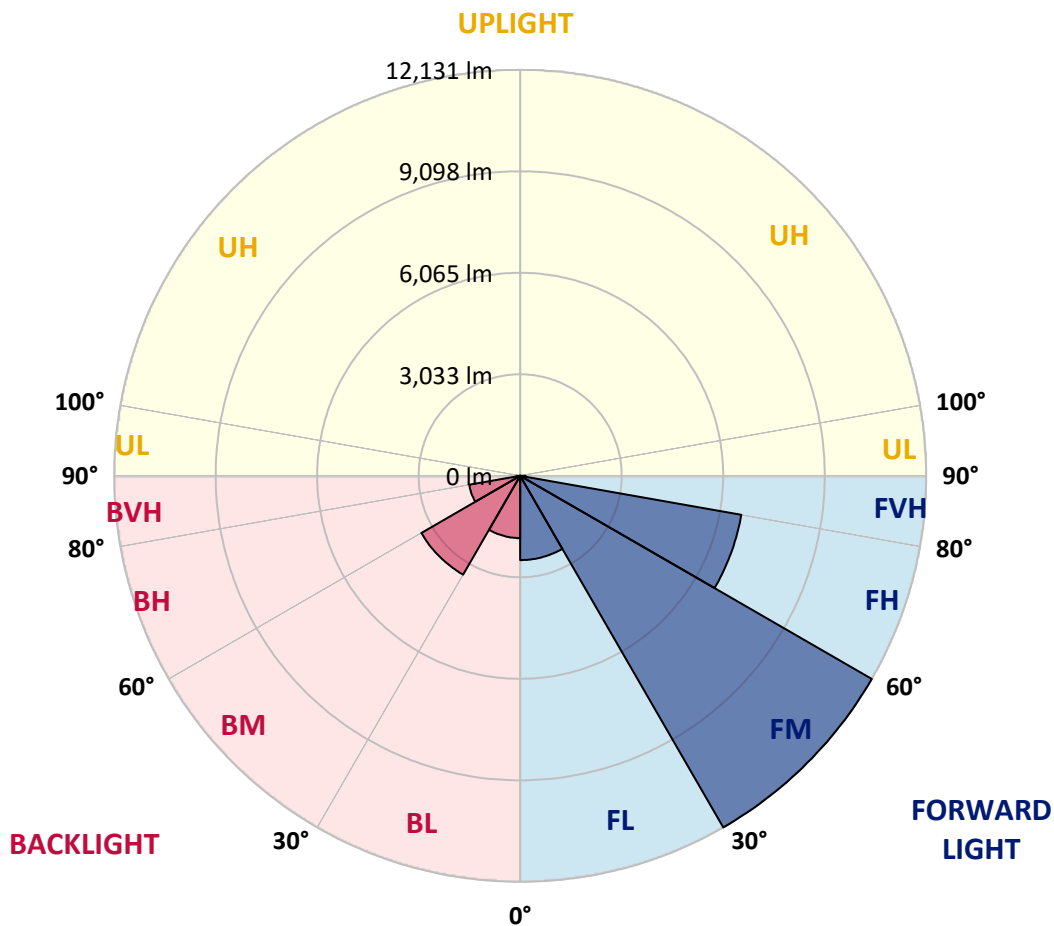
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2517.8	8.9			
FM	(30°-60°)	12130.6	42.6			
FH	(60°-80°)	6708.4	23.6			G3/7500
FVH	(80°-90°)	161.8	0.6			G2/225
BL	(0°-30°)	1861.9	6.5	B3/2500		
BM	(30°-60°)	3410.4	12.0	B3/5000		
BH	(60°-80°)	1546.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	108.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2
2.5°	4648.6	4641.3	4655.9	4677.9	4688.9	4670.6	4663.2	4659.6	4659.6	4648.6	4666.9
5°	4429.0	4425.3	4458.3	4498.5	4575.4	4630.3	4703.5	4747.4	4732.8	4710.8	4725.5
7.5°	4143.5	4136.2	4176.4	4253.3	4359.4	4480.2	4659.6	4798.7	4853.6	4846.3	4842.6
10°	4253.3	4246.0	4242.3	4220.3	4256.9	4374.1	4560.8	4806.0	4992.7	4996.3	5000.0
12.5°	4634.0	4652.3	4634.0	4564.4	4483.9	4440.0	4549.8	4824.3	5109.8	5131.8	5223.3
15°	5153.7	5135.4	5098.8	5018.3	4893.8	4762.1	4681.5	4908.5	5278.2	5296.5	5497.8
17.5°	5611.3	5625.9	5603.9	5527.1	5380.7	5208.6	4963.4	5054.9	5457.5	5508.8	5790.6
20°	6109.1	6167.6	6138.4	6043.2	5922.4	5666.2	5358.7	5267.2	5655.2	5691.8	6094.4
22.5°	6683.7	6746.0	6691.1	6599.6	6500.7	6185.9	5790.6	5527.1	5819.9	5896.8	6387.3
25°	7371.9	7430.4	7379.2	7236.4	7112.0	6727.7	6255.5	5819.9	5981.0	6065.1	6625.2
27.5°	7917.3	7961.2	8008.8	7924.6	7734.3	7335.3	6738.6	6123.7	6142.0	6229.9	6844.8
30°	8404.1	8513.9	8554.2	8565.1	8404.1	7957.5	7232.8	6438.5	6281.1	6372.6	7064.4
32.5°	9070.3	9235.0	9169.1	9235.0	9139.8	8543.2	7745.2	6764.3	6460.5	6544.6	7273.1
35°	10043.9	10175.7	10003.6	9952.4	9798.7	9136.2	8239.4	7101.0	6698.4	6789.9	7470.7
37.5°	11090.8	11240.8	10991.9	10787.0	10494.1	9721.8	8664.0	7543.9	7027.8	7101.0	7653.7
40°	12005.8	12130.3	11914.3	11643.5	11153.0	10237.9	9030.0	7855.0	7357.2	7448.7	7866.0
42.5°	12851.4	12931.9	12690.3	12430.4	11775.2	10702.8	9425.3	8184.5	7741.6	7829.4	8038.1
45°	13707.9	13770.1	13433.4	13063.7	12295.0	11127.4	9860.9	8645.7	8305.3	8422.4	8316.2
47.5°	13861.6	13879.9	13821.4	13572.5	12705.0	11533.7	10399.0	9264.3	9165.4	9293.5	8795.7
50°	12796.5	12961.2	13323.6	13568.8	12869.7	11874.1	10937.0	10150.1	10351.4	10516.1	9791.4
52.5°	10728.4	10885.8	11724.0	12653.7	12474.4	11950.9	11515.4	11273.8	12024.1	12221.8	11145.7
55°	8546.8	8685.9	9571.7	10911.4	11196.9	11599.5	12134.0	12708.6	14158.1	14289.9	12631.8
57.5°	7038.8	7115.7	7748.9	9037.3	9494.9	10475.8	12467.0	14414.3	16328.7	16530.0	13923.8
60°	5772.3	5856.5	6328.7	7390.2	7997.8	8869.0	12203.5	16098.1	18920.2	18920.2	15582.0
62.5°	4344.8	4418.0	4857.2	5688.1	6709.4	7507.3	11361.6	17214.5	20874.8	20786.9	16782.6
65°	2983.2	3041.7	3360.2	3912.9	4831.6	6398.2	10212.3	17229.1	22170.5	22053.4	17295.0
66°	2503.7	2554.9	2825.8	3272.3	4044.7	5805.3	9806.0	16918.0	22441.4	22276.7	17079.0
67.5°	1976.6	2013.2	2192.5	2456.1	2964.9	4699.8	9165.4	16035.9	22415.8	22317.0	16530.0
70°	1412.9	1438.5	1570.3	1625.2	1753.3	2719.6	7280.4	14044.6	20618.6	20647.9	14370.4
72.5°	1094.4	1134.7	1215.2	1226.2	1196.9	1445.8	4418.0	11716.7	16866.7	16855.8	10666.2
75°	882.1	904.1	944.4	966.3	959.0	933.4	1870.4	8740.8	11610.5	11746.0	5973.6
77.5°	695.5	691.8	728.4	757.7	779.6	732.1	856.5	5124.4	6087.1	5915.1	2243.8
80°	512.4	512.4	563.7	574.7	607.6	614.9	571.0	1976.6	2090.0	1899.7	582.0
82.5°	336.7	336.7	391.7	399.0	431.9	479.5	413.6	593.0	578.3	549.0	263.5
85°	183.0	175.7	194.0	219.6	237.9	281.8	248.9	296.5	303.8	300.1	175.7
87.5°	36.6	32.9	51.2	58.6	65.9	87.8	80.5	120.8	168.4	164.7	76.9
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°	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2	4663.2
2.5°	4692.5	4688.9	4729.1	4776.7	4831.6	4864.6	4879.2	4904.8	4886.5	4893.8	4915.8
5°	4762.1	4773.1	4831.6	4893.8	4919.5	4901.2	4860.9	4846.3	4813.3	4806.0	4798.7
7.5°	4864.6	4882.9	4941.4	4956.1	4879.2	4751.1	4659.6	4608.3	4553.4	4538.8	4531.5
10°	5032.9	5043.9	5058.6	4908.5	4718.1	4546.1	4432.6	4385.1	4348.5	4319.2	4326.5
12.5°	5245.2	5237.9	5124.4	4813.3	4542.5	4366.8	4289.9	4260.6	4235.0	4216.7	4213.0
15°	5512.4	5461.2	5135.4	4681.5	4377.7	4231.3	4176.4	4165.4	4136.2	4136.2	4132.5
17.5°	5783.3	5651.5	5128.1	4542.5	4220.3	4139.8	4106.9	4099.6	4092.2	4088.6	4099.6
20°	6054.2	5819.9	5069.5	4370.4	4110.5	4063.0	4055.6	4059.3	4052.0	4063.0	4055.6
22.5°	6292.1	5929.7	4959.7	4187.4	4033.7	4030.0	4011.7	4019.0	4044.7	4048.3	4059.3
25°	6475.1	5970.0	4798.7	4019.0	3978.8	3971.4	3993.4	4022.7	4044.7	4048.3	4066.6
27.5°	6625.2	5948.0	4597.4	3887.3	3883.6	3923.9	3989.7	4000.7	4004.4	4004.4	3989.7
30°	6738.6	5900.4	4341.1	3740.8	3759.1	3858.0	3920.2	3920.2	3890.9	3883.6	3905.6
32.5°	6764.3	5838.2	4063.0	3590.8	3620.1	3737.2	3814.1	3788.4	3755.5	3755.5	3770.1
35°	6786.2	5754.0	3839.7	3385.8	3429.7	3568.8	3642.0	3590.8	3554.2	3543.2	3539.5
37.5°	6778.9	5721.1	3638.4	3125.9	3184.5	3319.9	3367.5	3319.9	3265.0	3239.4	3272.3
40°	6786.2	5699.1	3385.8	2840.4	2899.0	2979.5	3041.7	3005.1	2953.9	2888.0	2920.9
42.5°	6830.2	5728.4	3107.6	2562.2	2562.2	2606.1	2712.3	2686.7	2562.2	2536.6	2565.9
45°	7064.4	5885.8	2829.4	2284.0	2243.8	2273.1	2382.9	2273.1	2196.2	2196.2	2221.8
47.5°	7631.8	6178.6	2584.2	2038.8	1943.6	2002.2	2031.5	1929.0	1870.4	1855.8	1881.4
50°	8788.4	6764.3	2437.8	1837.5	1720.3	1764.3	1746.0	1742.3	1683.7	1691.1	1705.7
52.5°	10545.4	7906.3	2393.8	1738.7	1592.2	1603.2	1584.9	1592.2	1581.3	1617.9	1628.8
55°	12459.7	9110.5	2448.8	1753.3	1504.4	1427.5	1434.8	1471.4	1515.4	1573.9	1584.9
57.5°	13890.9	9714.5	2591.5	1852.1	1394.6	1277.5	1295.8	1365.3	1449.5	1497.1	1522.7
60°	14956.1	9641.3	2800.1	1877.7	1262.8	1142.0	1175.0	1277.5	1350.7	1390.9	1416.5
62.5°	15303.8	9183.7	2851.4	1691.1	1090.8	1013.9	1094.4	1200.6	1233.5	1277.5	1295.8
65°	15018.3	8535.9	2478.0	1372.6	959.0	918.7	1035.9	1116.4	1160.3	1182.3	1185.9
66°	14681.5	8147.9	2276.7	1248.2	911.4	889.5	1013.9	1079.8	1123.7	1120.1	1123.7
67.5°	13942.2	7335.3	1950.9	1072.5	841.9	845.5	977.3	1021.2	1035.9	1024.9	1024.9
70°	11427.5	5164.7	1398.2	812.6	739.4	790.6	878.5	889.5	922.4	907.8	907.8
72.5°	7046.1	2536.6	937.0	622.3	658.9	739.4	735.7	772.3	849.2	871.2	885.8
75°	3462.7	1028.5	618.6	527.1	589.3	618.6	611.3	702.8	812.6	907.8	940.7
77.5°	1314.1	512.4	431.9	461.2	475.8	464.9	486.8	636.9	812.6	984.6	1017.6
80°	406.3	355.1	340.4	380.7	358.7	340.4	366.0	527.1	688.1	746.7	746.7
82.5°	245.2	278.2	263.5	259.9	241.6	245.2	263.5	377.0	530.7	556.4	556.4
85°	172.0	183.0	150.1	142.8	139.1	135.4	135.4	219.6	314.8	311.1	322.1
87.5°	65.9	73.2	54.9	54.9	51.2	36.6	29.3	36.6	36.6	25.6	18.3
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)