

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: P1211211

Luminaire Tested: **ARCH4-200-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211211
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: ARCH4-200-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31744 lumens
Efficiency: N/A
Efficacy: 155.8 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



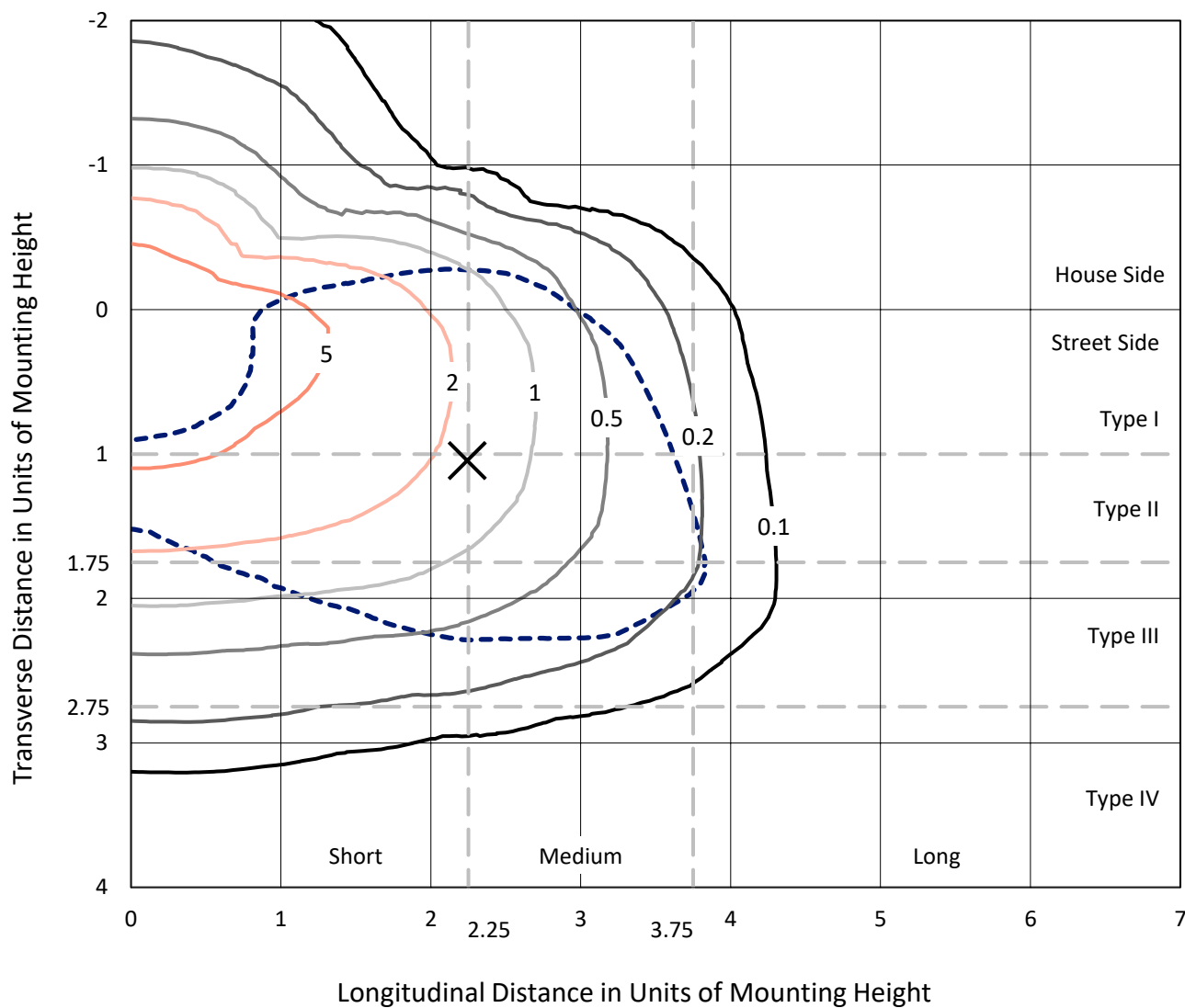
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

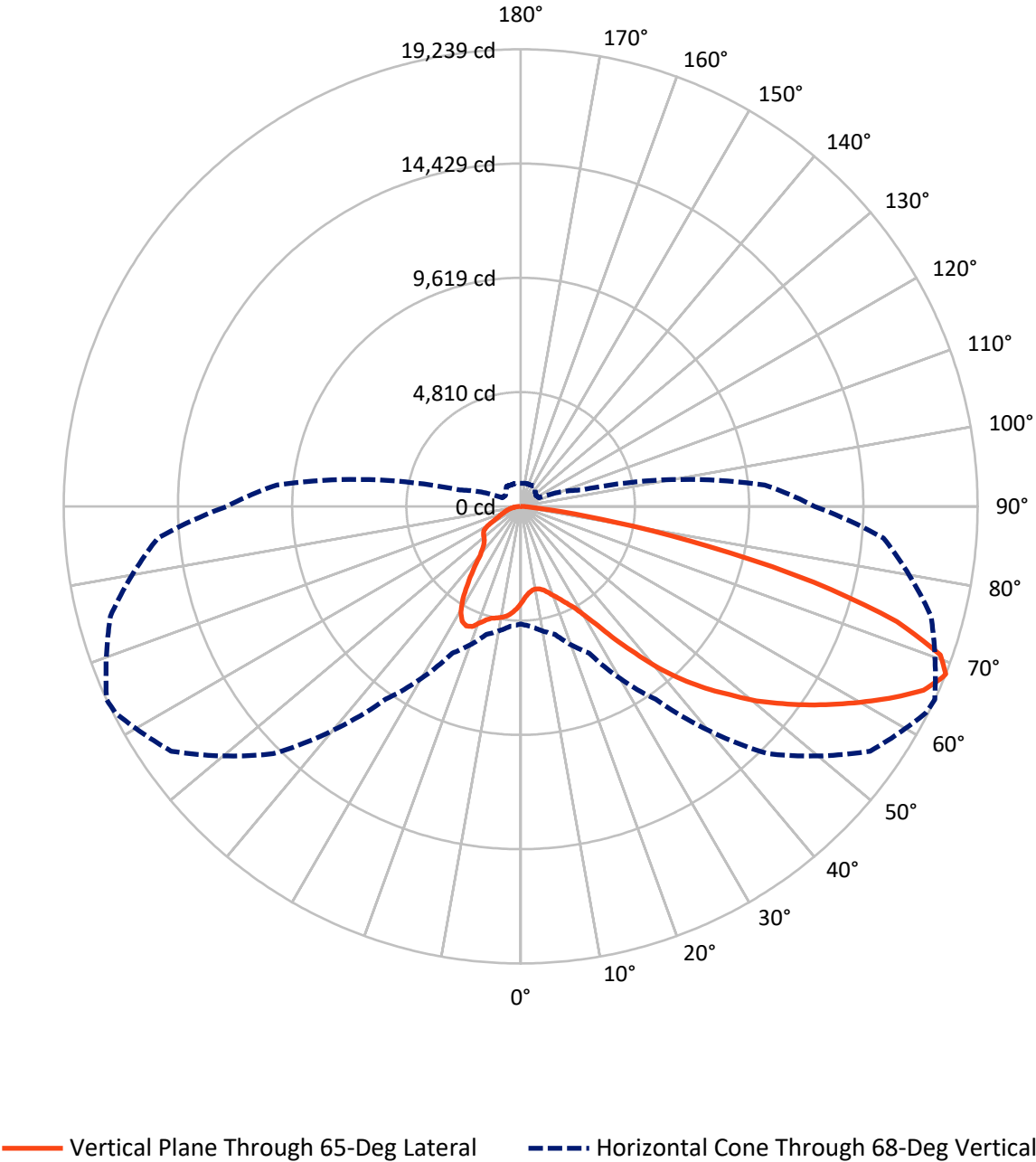


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc

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	7782.7	0.0	7782.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	23961.3	0.0	23961.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	31744.0	0.0	31744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.7	1.2
10°-20°	1262.3	4.0
20°-30°	2284.6	7.2
30°-40°	3593.9	11.3
40°-50°	5352.8	16.9
50°-60°	7021.8	22.1
60°-70°	7678.8	24.2
70°-80°	3799.7	12.0
80°-90°	362.4	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°	31744.0	100.0
0°-180°	31744.0	100.0

Coefficient of Utilization



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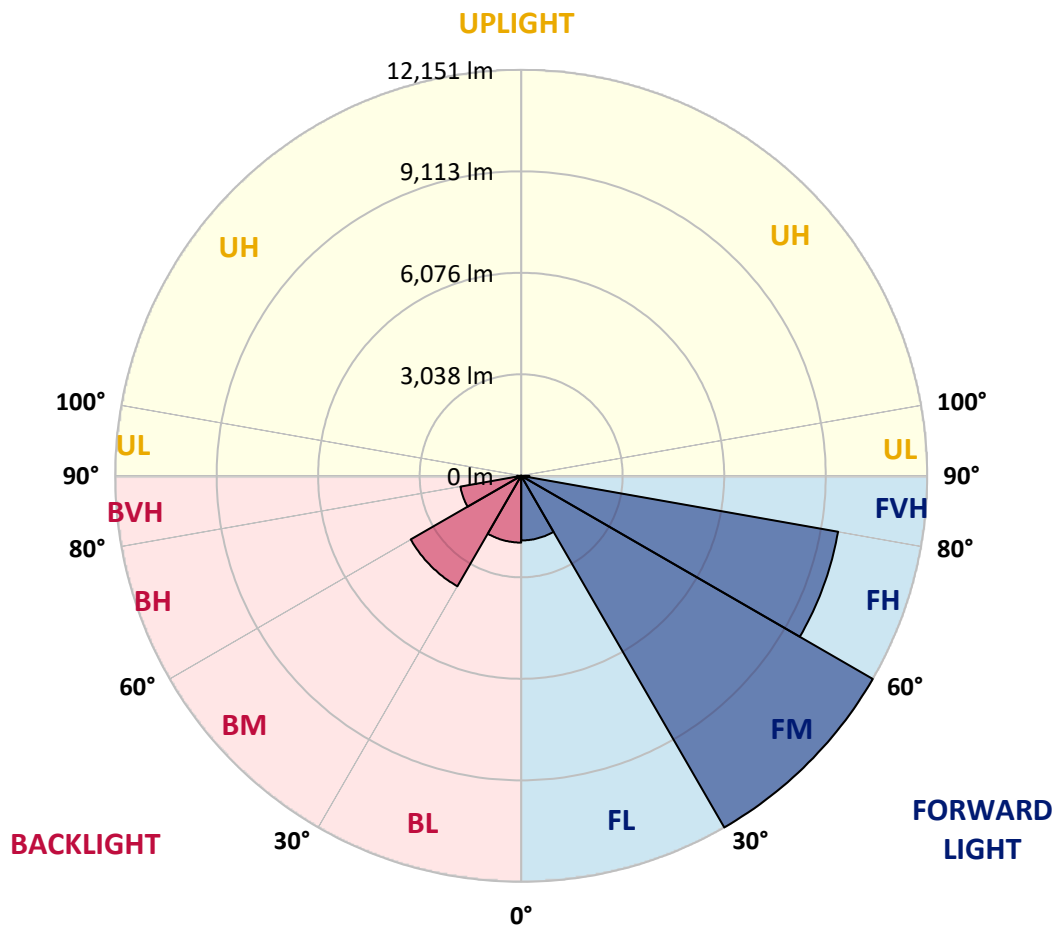
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1935.2	6.1			
FM	(30°-60°)	12151.2	38.3			
FH	(60°-80°)	9631.2	30.3			G4/12000
FVH	(80°-90°)	243.8	0.8			G3/500
BL	(0°-30°)	1999.4	6.3	B3/2500		
BM	(30°-60°)	3817.3	12.0	B3/5000		
BH	(60°-80°)	1847.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	118.7	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5
2.5°	3540.7	3532.6	3553.0	3573.5	3618.5	3671.7	3745.4	3806.8	3815.0	3929.6	4019.7
5°	3332.0	3319.7	3340.2	3364.7	3385.2	3450.7	3528.5	3618.5	3655.4	3823.2	4015.6
7.5°	3352.4	3348.3	3356.5	3348.3	3348.3	3377.0	3430.2	3520.3	3561.2	3761.8	4036.0
10°	3471.1	3479.3	3483.4	3458.9	3434.3	3422.0	3438.4	3499.8	3528.5	3765.9	4126.1
12.5°	3667.6	3679.9	3684.0	3639.0	3606.2	3553.0	3524.4	3548.9	3569.4	3806.8	4253.0
15°	3933.7	3941.9	3913.2	3884.6	3802.7	3737.2	3667.6	3647.2	3655.4	3892.8	4396.2
17.5°	4244.8	4232.5	4232.5	4162.9	4056.5	3954.2	3839.6	3823.2	3823.2	4031.9	4600.9
20°	4584.5	4596.8	4560.0	4465.8	4359.4	4199.8	4085.2	4011.5	4019.7	4191.6	4850.6
22.5°	5075.7	5096.2	4998.0	4862.9	4699.2	4515.0	4351.2	4232.5	4236.6	4400.3	5108.5
25°	5603.8	5612.0	5550.6	5370.5	5149.4	4887.4	4670.5	4519.0	4515.0	4633.7	5440.0
27.5°	6144.1	6180.9	6058.1	5886.2	5681.6	5354.1	5067.6	4862.9	4830.1	4989.8	5853.5
30°	6700.8	6745.8	6627.1	6459.3	6205.5	5927.2	5587.4	5350.0	5329.5	5542.4	6406.1
32.5°	7261.6	7273.9	7179.7	7040.5	6811.3	6549.3	6275.1	6013.1	5992.6	6340.6	7122.4
35°	7720.0	7756.9	7691.4	7658.6	7490.8	7249.3	6983.2	6831.8	6885.0	7331.2	8051.6
37.5°	8272.6	8309.5	8235.8	8227.6	8174.4	7965.6	7781.4	7793.7	7846.9	8452.7	9029.9
40°	9070.8	9111.8	8923.5	8841.6	8841.6	8636.9	8575.5	8866.2	8935.8	9557.9	10049.1
42.5°	9746.2	9811.7	9701.2	9648.0	9488.4	9345.1	9418.8	9828.1	9946.8	10614.0	10937.4
45°	10073.7	10122.8	10253.8	10409.4	10253.8	10004.1	10282.5	10745.0	10912.8	11588.2	11825.7
47.5°	10249.7	10294.7	10446.2	10863.7	10970.1	10761.4	11154.3	11731.5	11846.1	12554.3	12673.0
50°	10274.3	10417.5	10614.0	11031.5	11518.7	11547.3	12030.3	12734.4	12869.5	13503.9	13418.0
52.5°	10073.7	10131.0	10536.3	11240.3	11780.6	12271.8	12984.1	13696.3	13794.5	14396.3	14077.0
55°	9746.2	9828.1	10233.3	11191.2	12034.4	12959.5	13954.2	14641.9	14752.4	15264.1	14686.9
57.5°	9451.5	9492.4	9926.3	11047.9	12288.2	13647.2	14817.9	15628.4	15702.0	16025.4	15137.2
60°	9124.0	9169.1	9603.0	10740.9	12476.5	14167.0	15718.4	16623.0	16688.5	16827.7	15661.1
62.5°	8276.7	8395.4	8939.8	10233.3	12427.4	14760.6	16680.3	17605.4	17687.3	17535.9	16074.5
65°	6721.3	6889.1	7556.3	9083.1	11968.9	15145.3	17466.3	18510.1	18649.2	18068.0	16185.1
67.5°	5219.0	5337.7	5873.9	7208.4	10360.2	14953.0	17973.8	19132.3	19173.2	17982.0	15571.1
68°	4948.8	5067.6	5579.2	6815.4	9914.1	14723.7	17961.6	19148.6	19238.7	17887.9	15333.6
70°	3786.3	3921.4	4408.5	5399.1	7990.2	13266.5	17212.5	18755.7	18743.4	16749.9	13860.0
72.5°	2365.9	2443.7	2779.4	3405.7	5284.5	10094.2	14609.1	16541.2	16573.9	13655.4	10630.4
75°	1502.3	1502.3	1485.9	1649.6	2709.8	5751.1	10859.6	12734.4	12758.9	9562.0	6700.8
77.5°	1305.8	1268.9	1092.9	925.1	1080.6	2235.0	6426.5	8223.5	8088.4	5149.4	3180.5
80°	1101.1	1039.7	896.4	745.0	695.9	700.0	2468.3	4175.2	3995.1	1854.3	1056.1
82.5°	794.1	740.9	675.4	585.3	536.2	417.5	515.8	1207.5	1178.9	536.2	343.8
85°	429.8	388.9	380.7	384.8	323.4	257.9	216.9	266.1	266.1	233.3	196.5
87.5°	151.5	110.5	131.0	147.4	126.9	106.4	86.0	102.3	106.4	102.3	94.1
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°	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5	4056.5
2.5°	4072.9	4113.8	4212.0	4298.0	4359.4	4412.6	4441.3	4453.6	4482.2	4486.3	4478.1
5°	4105.6	4212.0	4359.4	4486.3	4555.9	4584.5	4592.7	4596.8	4584.5	4592.7	4584.5
7.5°	4191.6	4326.7	4535.4	4645.9	4658.2	4613.2	4617.3	4600.9	4617.3	4633.7	4633.7
10°	4322.6	4494.5	4691.0	4731.9	4678.7	4654.1	4703.2	4801.5	4834.2	4879.3	4879.3
12.5°	4494.5	4699.2	4838.3	4801.5	4752.4	4834.2	4977.5	5075.7	5108.5	5124.9	5112.6
15°	4691.0	4912.0	4981.6	4858.8	4948.8	5124.9	5174.0	5116.7	5034.8	4998.0	5018.4
17.5°	4940.7	5124.9	5083.9	5002.1	5206.7	5231.3	5071.6	4887.4	4756.5	4707.3	4740.1
20°	5202.6	5362.3	5174.0	5210.8	5337.7	5075.7	4772.8	4535.4	4420.8	4400.3	4433.1
22.5°	5481.0	5583.3	5264.0	5452.3	5264.0	4731.9	4367.6	4244.8	4216.1	4248.9	4277.5
25°	5796.2	5783.9	5419.6	5526.0	4989.8	4310.3	4093.3	4085.2	4085.2	4105.6	4146.6
27.5°	6152.3	5959.9	5575.1	5427.8	4515.0	3962.4	3921.4	3925.5	3913.2	3917.3	3937.8
30°	6565.7	6197.3	5747.0	5104.4	3982.8	3700.4	3684.0	3671.7	3643.1	3634.9	3643.1
32.5°	7085.6	6447.0	5923.1	4572.3	3516.2	3430.2	3422.0	3356.5	3286.9	3278.8	3307.4
35°	7744.6	6901.4	6013.1	3905.0	3131.4	3127.3	3098.7	2996.3	2906.3	2906.3	2885.8
37.5°	8497.8	7486.7	6050.0	3254.2	2812.1	2832.6	2750.7	2619.7	2550.1	2509.2	2521.5
40°	9267.3	8153.9	6045.9	2685.2	2533.8	2537.9	2476.5	2316.8	2144.9	2042.6	2067.1
42.5°	10008.2	8759.7	5939.4	2382.3	2308.6	2296.4	2247.2	2030.3	1887.0	1805.2	1809.3
45°	10601.7	9386.0	5775.7	2202.2	2104.0	2124.4	2013.9	1882.9	1751.9	1678.3	1674.2
47.5°	11195.3	9860.8	5513.7	2091.7	1952.5	1915.7	1870.7	1780.6	1682.4	1600.5	1604.6
50°	11735.6	10266.1	5268.1	2018.0	1813.3	1719.2	1727.4	1674.2	1588.2	1514.5	1510.4
52.5°	12116.3	10532.2	5133.0	1977.1	1645.5	1543.2	1571.8	1543.2	1461.3	1408.1	1404.0
55°	12497.0	10736.8	5178.1	1923.9	1461.3	1379.5	1428.6	1420.4	1375.4	1359.0	1363.1
57.5°	12804.0	10892.4	5337.7	1825.6	1285.3	1236.2	1318.1	1293.5	1260.7	1264.8	1264.8
60°	13102.8	11092.9	5526.0	1600.5	1133.9	1137.9	1215.7	1170.7	1150.2	1187.1	1191.2
62.5°	13413.9	11309.9	5370.5	1273.0	1002.9	1031.5	1121.6	1084.7	1092.9	1146.1	1162.5
65°	13377.0	11289.4	4375.8	1043.8	888.3	945.6	1080.6	1068.4	1072.5	1092.9	1101.1
67.5°	12623.9	10569.0	3008.6	888.3	806.4	876.0	1047.9	998.8	1002.9	990.6	994.7
68°	12370.1	10315.2	2652.5	863.7	790.0	859.6	1031.5	986.5	990.6	978.3	974.2
70°	10986.5	8833.4	1678.3	761.4	732.7	814.6	949.7	933.3	929.2	921.0	921.0
72.5°	8375.0	6520.7	884.2	659.0	667.2	745.0	847.3	880.1	859.6	863.7	888.3
75°	5546.5	3921.4	614.0	564.9	585.3	638.6	753.2	818.7	798.2	810.5	798.2
77.5°	2934.9	2112.2	491.2	478.9	478.9	515.8	622.2	724.5	724.5	716.3	704.1
80°	961.9	745.0	393.0	376.6	384.8	405.2	499.4	593.5	605.8	589.4	581.3
82.5°	323.4	343.8	294.7	274.3	282.4	298.8	376.6	454.4	458.5	425.7	417.5
85°	200.6	229.2	184.2	180.1	180.1	184.2	229.2	249.7	229.2	204.7	212.9
87.5°	94.1	114.6	86.0	73.7	61.4	53.2	40.9	16.4	16.4	8.2	8.2
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)