

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: P841452

Luminaire Tested: **ARCH4-180-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28629 lumens
Efficiency: N/A
Efficacy: 159.1 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): 180
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

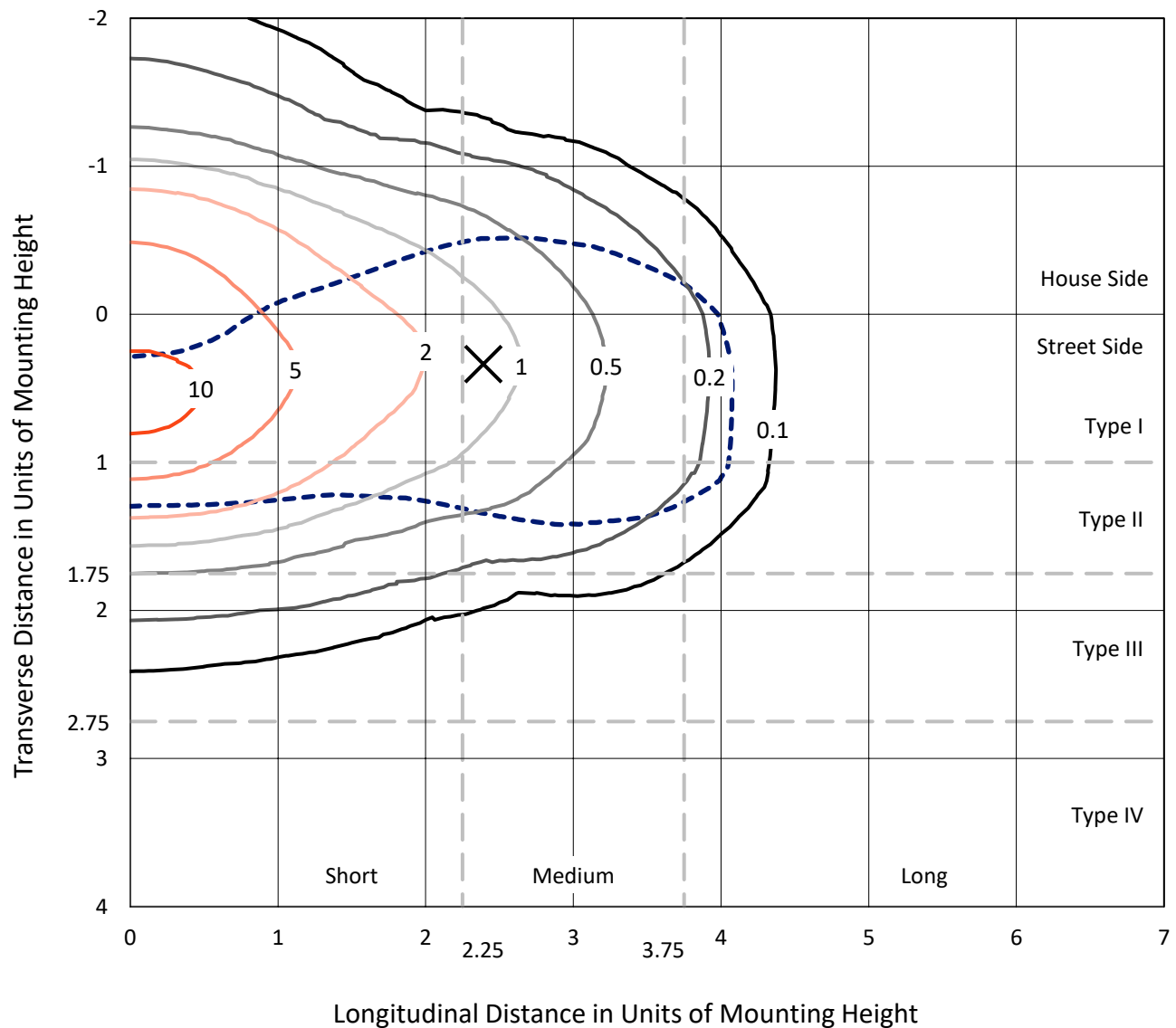


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Iso-Footcandle Lines of Horizontal Illumination

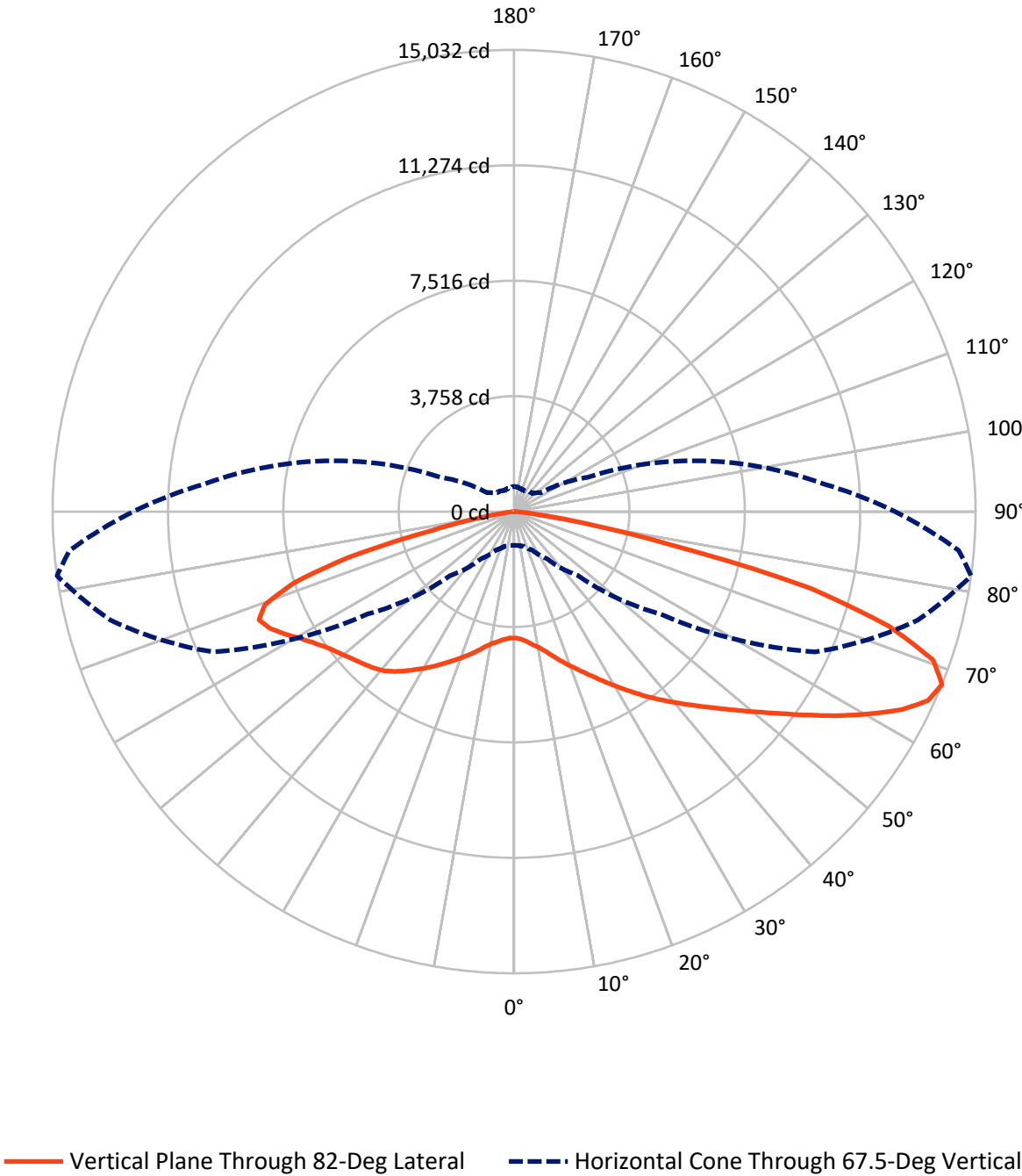
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	8718.7	0.0	8718.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	19910.3	0.0	19910.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	28629.0	0.0	28629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.3	1.5
10°-20°	1532.0	5.4
20°-30°	3078.9	10.8
30°-40°	4836.5	16.9
40°-50°	5891.9	20.6
50°-60°	5567.1	19.4
60°-70°	4597.1	16.1
70°-80°	2503.3	8.7
80°-90°	196.8	0.7
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°	28629.0	100.0
0°-180°	28629.0	100.0

Coefficient of Utilization



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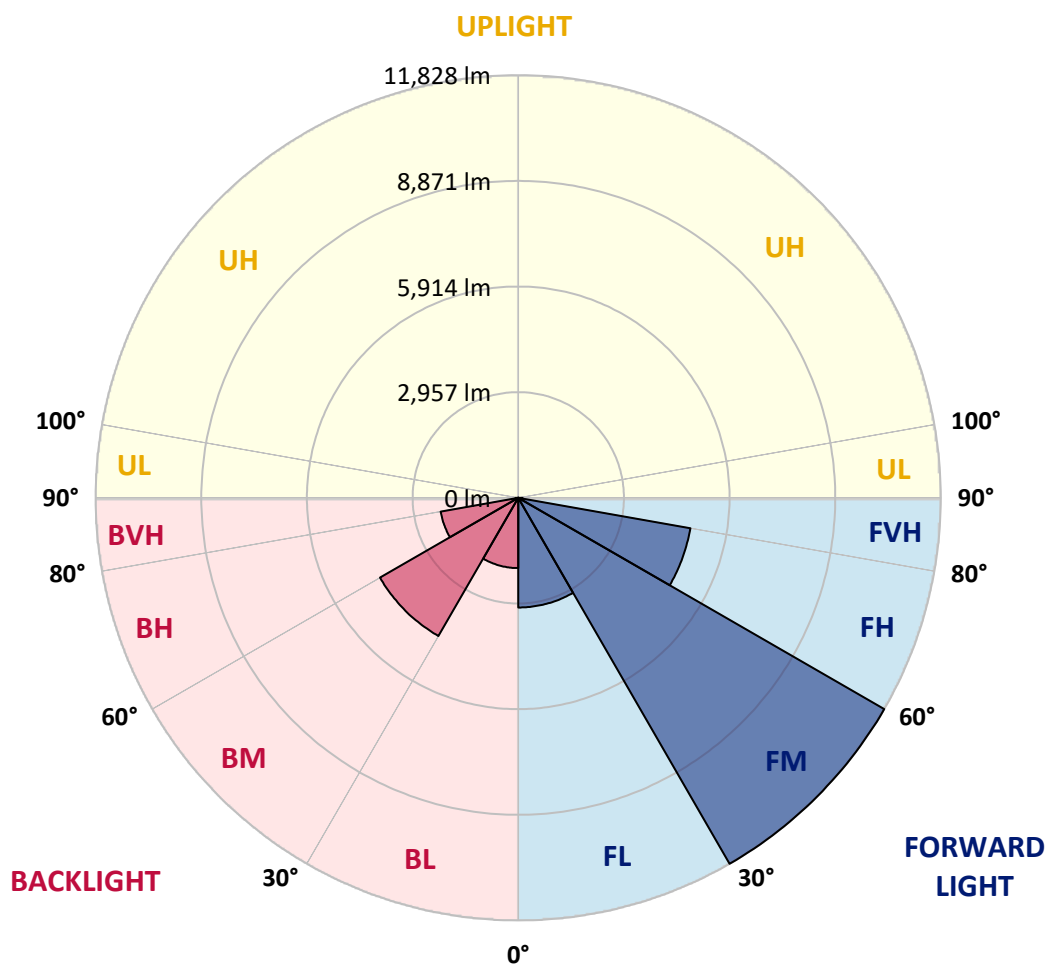
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3070.1	10.7			
FM	(30°-60°)	11827.9	41.3			
FH	(60°-80°)	4893.7	17.1			G2/5000
FVH	(80°-90°)	118.6	0.4			G2/225
BL	(0°-30°)	1966.1	6.9	B3/2500		
BM	(30°-60°)	4467.6	15.6	B3/5000		
BH	(60°-80°)	2206.7	7.7	B3/2500		G3/2500
BVH	(80°-90°)	78.2	0.3			G1/100
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°	82°	85°
0°	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4
2.5°	4302.5	4302.5	4335.7	4335.7	4306.6	4260.9	4248.4	4198.5	4152.8	4152.8	4157.0
5°	4714.0	4709.9	4734.8	4701.5	4630.9	4539.4	4477.1	4369.0	4277.5	4248.4	4244.3
7.5°	5217.0	5212.8	5225.3	5171.3	5038.3	4888.6	4763.9	4589.3	4439.6	4377.3	4360.7
10°	5778.2	5774.0	5761.6	5670.1	5491.4	5258.6	5071.5	4830.4	4605.9	4506.2	4485.4
12.5°	6422.5	6414.2	6385.1	6252.1	6006.8	5707.5	5437.3	5125.5	4826.2	4689.1	4643.3
15°	7141.7	7129.2	7075.2	6913.0	6584.6	6206.4	5857.2	5458.1	5092.3	4913.5	4851.2
17.5°	7898.3	7898.3	7815.1	7574.0	7208.2	6738.5	6306.1	5799.0	5370.8	5150.5	5075.7
20°	8667.3	8663.1	8559.2	8268.2	7835.9	7295.5	6746.8	6189.7	5657.6	5391.6	5300.1
22.5°	9477.9	9469.6	9340.7	9008.2	8492.7	7881.6	7241.4	6576.3	5973.6	5653.5	5537.1
25°	10409.1	10396.6	10238.6	9831.2	9220.2	8530.1	7798.5	7029.4	6335.2	5944.5	5807.3
27.5°	11398.4	11381.8	11194.7	10720.8	10051.6	9220.2	8413.7	7553.2	6734.3	6268.7	6114.9
30°	12279.7	12267.2	12063.5	11577.2	10808.1	9906.1	8999.8	8077.0	7154.2	6613.7	6422.5
32.5°	12944.8	12944.8	12761.9	12283.9	11485.7	10562.9	9590.1	8571.7	7590.6	6983.7	6759.2
35°	13348.0	13360.5	13202.5	12820.1	12067.7	11182.3	10201.2	9153.7	8056.2	7378.6	7137.5
37.5°	13406.2	13447.8	13356.4	13098.6	12470.9	11697.7	10799.8	9714.8	8538.4	7777.7	7507.5
40°	13136.0	13165.1	13169.3	13069.5	12637.2	12067.7	11327.8	10309.3	9049.7	8197.6	7885.8
42.5°	12595.6	12616.4	12653.8	12682.9	12516.6	12229.8	11731.0	10862.2	9594.3	8625.7	8259.9
45°	11897.3	11893.1	11955.5	12080.2	12071.9	12138.4	11955.5	11365.2	10159.6	9112.1	8675.6
47.5°	10853.9	10833.1	11053.4	11336.1	11477.4	11789.2	11959.6	11760.1	10774.9	9648.3	9149.5
50°	9220.2	9199.4	9681.6	10346.7	10762.4	11236.3	11731.0	11997.0	11419.2	10251.1	9665.0
52.5°	7233.1	7212.3	7823.4	8987.4	9893.6	10583.7	11269.6	12051.1	12030.3	10924.5	10246.9
55°	5379.1	5362.5	5956.9	7216.5	8683.9	9827.1	10704.2	11909.7	12603.9	11697.7	10953.6
57.5°	3791.2	3782.8	4298.3	5341.7	7129.2	8904.2	10159.6	11635.4	13131.9	12537.4	11751.8
60°	2660.5	2648.0	3022.1	3828.6	5391.6	7511.7	9619.2	11269.6	13526.8	13364.7	12599.8
62.5°	1791.7	1783.3	2049.4	2722.8	3828.6	5782.4	8800.3	11024.3	13751.3	14196.1	13456.1
65°	1359.3	1355.2	1475.7	1845.7	2710.3	4152.8	7499.2	10995.2	13780.4	14819.6	14183.6
67.5°	1097.4	1101.6	1168.1	1380.1	1874.8	2951.5	5815.6	10812.3	13626.6	15031.6	14536.9
70°	897.9	897.9	927.0	1068.3	1384.3	1991.2	4061.4	9980.9	13198.4	14478.7	14117.1
72.5°	685.9	690.1	781.5	864.7	1043.4	1396.7	2602.3	8259.9	12188.2	12766.1	12491.7
75°	544.6	540.4	594.4	710.8	810.6	997.7	1596.3	5923.7	10371.6	9976.7	9802.1
77.5°	390.8	386.6	428.2	527.9	615.2	706.7	951.9	2988.9	5641.0	5183.7	5054.9
80°	266.0	257.7	295.1	365.8	407.4	415.7	465.6	1147.3	2460.9	2319.6	2290.5
82.5°	137.2	137.2	158.0	207.8	212.0	216.2	207.8	370.0	814.8	760.7	727.5
85°	54.0	54.0	58.2	70.7	70.7	74.8	74.8	95.6	87.3	83.1	79.0
87.5°	4.2	4.2	8.3	8.3	12.5	12.5	12.5	16.6	20.8	20.8	20.8
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°	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4
2.5°	4148.7	4132.0	4078.0	4065.5	4057.2	4044.7	4048.9	4019.8	4007.3	4011.5	3994.9
5°	4223.5	4194.4	4127.9	4098.8	4090.5	4078.0	4090.5	4069.7	4048.9	4057.2	4048.9
7.5°	4327.4	4285.8	4202.7	4173.6	4169.4	4157.0	4173.6	4157.0	4140.3	4148.7	4132.0
10°	4435.5	4381.5	4290.0	4260.9	4260.9	4256.7	4273.4	4248.4	4231.8	4236.0	4227.6
12.5°	4593.5	4522.8	4423.0	4398.1	4385.6	4398.1	4402.2	4369.0	4339.9	4344.0	4331.6
15°	4784.7	4705.7	4597.6	4560.2	4551.9	4547.7	4531.1	4489.5	4452.1	4448.0	4435.5
17.5°	4992.5	4892.8	4763.9	4726.5	4689.1	4676.6	4635.0	4581.0	4522.8	4522.8	4506.2
20°	5192.1	5079.8	4926.0	4872.0	4817.9	4768.0	4697.4	4610.1	4535.3	4522.8	4506.2
22.5°	5408.2	5275.2	5096.4	5017.5	4921.9	4822.1	4701.5	4585.1	4489.5	4468.7	4456.3
25°	5649.3	5483.0	5271.0	5154.6	5000.8	4847.0	4668.3	4518.6	4406.4	4373.1	4364.8
27.5°	5915.4	5715.8	5458.1	5287.7	5063.2	4822.1	4593.5	4414.7	4277.5	4236.0	4223.5
30°	6185.6	5948.6	5628.5	5379.1	5063.2	4743.1	4456.3	4248.4	4090.5	4032.3	4024.0
32.5°	6455.8	6189.7	5782.4	5429.0	5013.3	4610.1	4277.5	4032.3	3853.5	3782.8	3799.5
35°	6780.0	6455.8	5923.7	5449.8	4930.2	4448.0	4073.8	3787.0	3604.1	3541.7	3554.2
37.5°	7116.7	6721.8	6035.9	5433.2	4813.8	4265.1	3845.2	3566.7	3338.0	3230.0	3242.4
40°	7407.7	6962.9	6114.9	5375.0	4664.1	4057.2	3620.7	3254.9	2939.0	2835.1	2822.6
42.5°	7682.1	7141.7	6156.5	5287.7	4493.7	3816.1	3300.6	2830.9	2515.0	2386.1	2390.3
45°	7968.9	7316.3	6139.9	5171.3	4281.7	3533.4	2889.1	2415.2	2136.7	2020.3	2024.4
47.5°	8297.3	7503.3	6123.2	5046.6	4024.0	3167.6	2494.2	2049.4	1808.3	1725.1	1716.8
50°	8646.5	7711.2	6102.4	4892.8	3737.1	2760.2	2103.4	1708.5	1504.8	1450.8	1438.3
52.5°	9041.4	7935.7	6090.0	4709.9	3392.1	2327.9	1754.2	1409.2	1272.0	1234.6	1230.5
55°	9515.3	8197.6	6106.6	4489.5	2976.4	1920.5	1459.1	1213.8	1122.4	1101.6	1097.4
57.5°	10093.1	8534.3	6156.5	4231.8	2539.9	1567.2	1242.9	1093.3	1035.1	1018.5	1018.5
60°	10720.8	8916.7	6247.9	3940.8	2103.4	1292.8	1101.6	997.7	972.7	993.5	993.5
62.5°	11398.4	9365.7	6410.1	3587.5	1696.0	1093.3	989.4	918.7	902.1	943.6	947.8
65°	12026.1	9802.1	6514.0	3163.5	1346.9	947.8	902.1	839.7	848.0	889.6	885.4
67.5°	12412.7	10163.8	6368.5	2631.4	1068.3	839.7	810.6	756.6	777.4	810.6	814.8
70°	12175.8	9960.1	5649.3	1987.0	835.6	731.6	710.8	677.6	694.2	735.8	752.4
72.5°	11016.0	8920.9	4393.9	1342.7	673.4	615.2	623.5	606.9	627.7	665.1	702.5
75°	8941.7	6742.6	2947.3	860.5	532.1	523.8	536.2	523.8	532.1	569.5	590.3
77.5°	4668.3	3288.2	1467.4	536.2	394.9	407.4	428.2	432.3	457.3	465.6	473.9
80°	2178.3	1479.9	611.1	299.3	261.9	286.8	328.4	332.6	340.9	353.3	357.5
82.5°	710.8	444.8	282.7	162.1	149.7	162.1	212.0	253.6	257.7	282.7	282.7
85°	74.8	45.7	62.4	66.5	58.2	70.7	95.6	91.5	41.6	24.9	24.9
87.5°	20.8	16.6	20.8	20.8	16.6	16.6	12.5	4.2	0.0	0.0	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)