

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: P841742

Luminaire Tested: **ARCH4-220-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33665 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

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



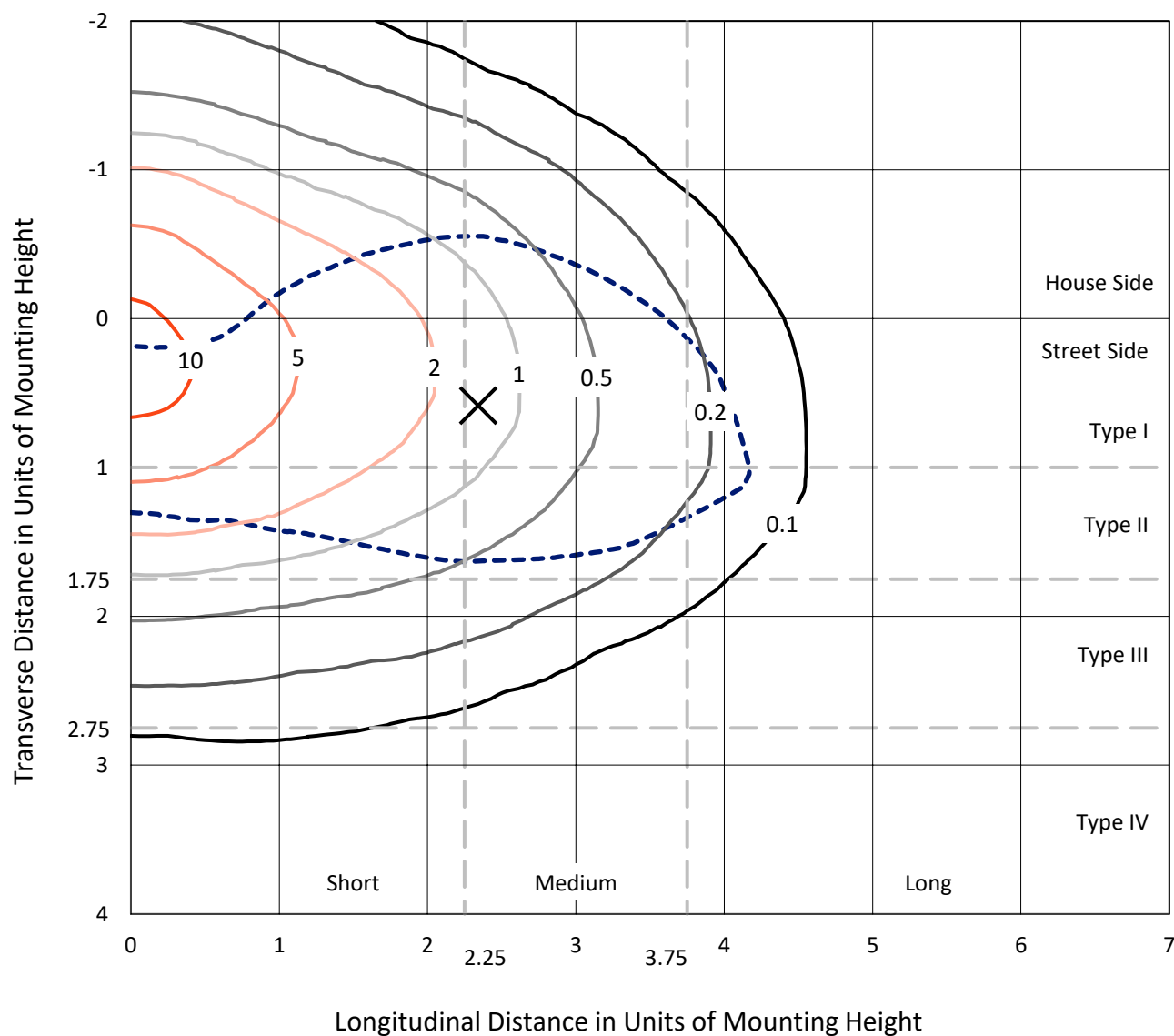
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

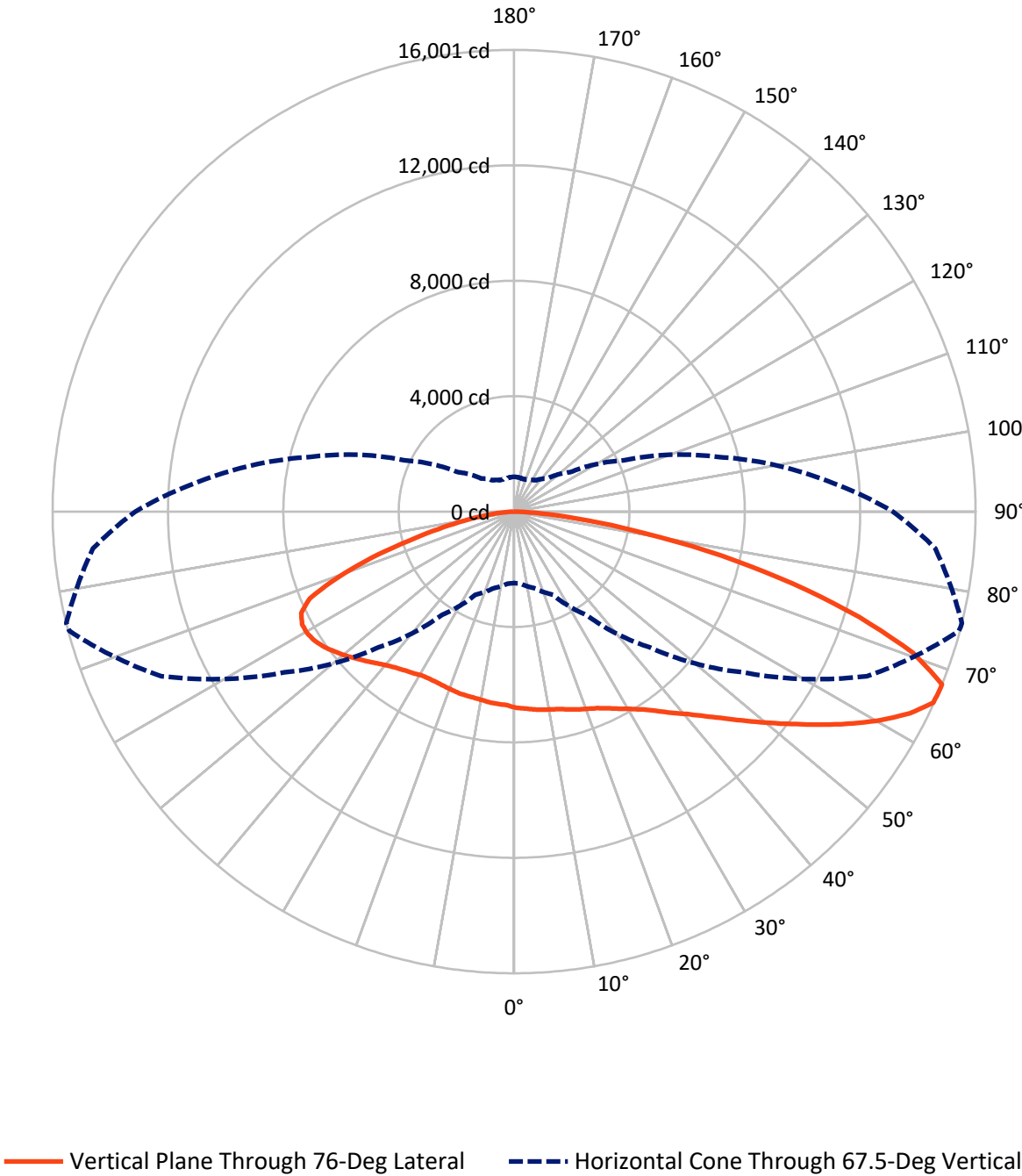
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	11375.6	0.0	11375.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	22289.4	0.0	22289.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	33665.0	0.0	33665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.7	1.9
10°-20°	2004.7	6.0
20°-30°	3406.0	10.1
30°-40°	4846.3	14.4
40°-50°	6120.7	18.2
50°-60°	6626.8	19.7
60°-70°	6163.7	18.3
70°-80°	3310.5	9.8
80°-90°	530.5	1.6
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°	33665.0	100.0
0°-180°	33665.0	100.0

Coefficient of Utilization



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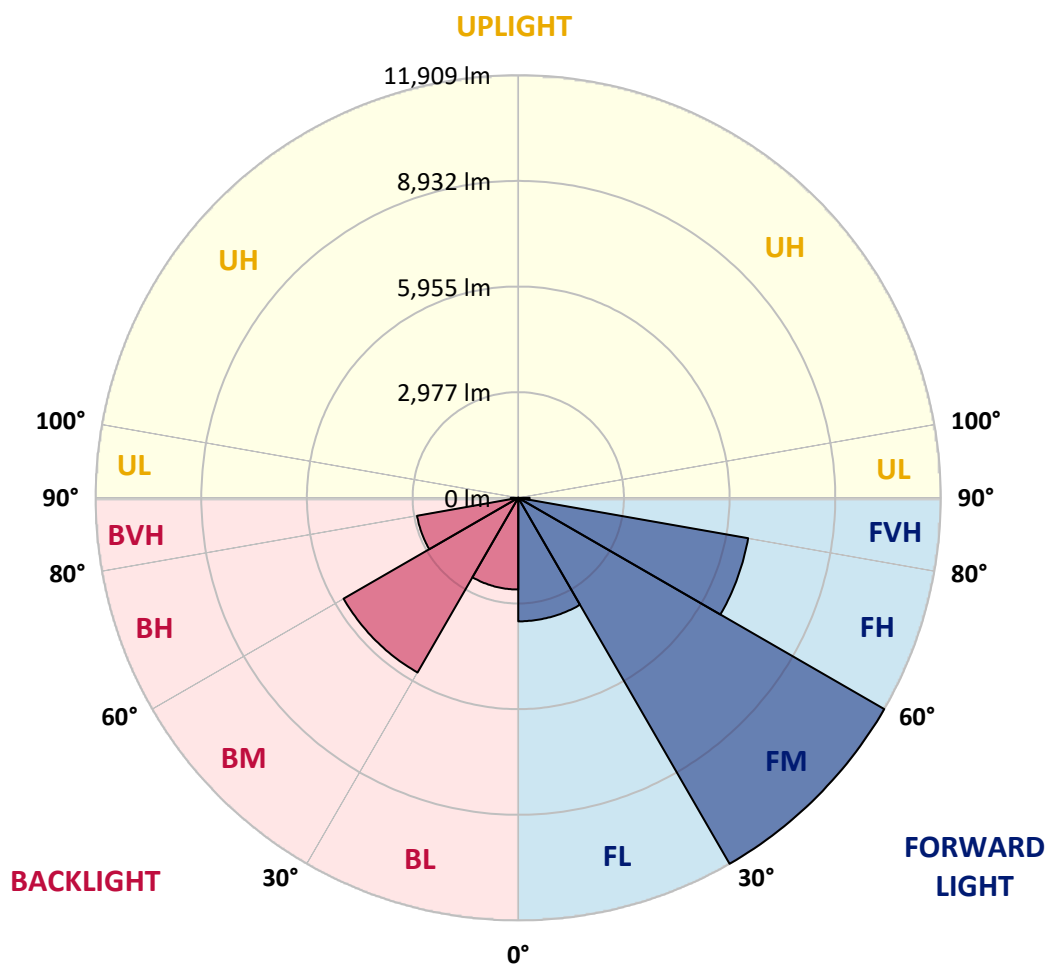
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3481.3	10.3			
FM	(30°-60°)	11909.4	35.4			
FH	(60°-80°)	6577.8	19.5			G3/7500
FVH	(80°-90°)	320.9	1.0			G3/500
BL	(0°-30°)	2585.1	7.7	B4/5000		
BM	(30°-60°)	5684.5	16.9	B4/8500		
BH	(60°-80°)	2896.3	8.6	B4/5000		G4/5000
BVH	(80°-90°)	209.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3
2.5°	7006.5	6994.0	6944.0	6950.3	6950.3	6944.0	6869.0	6837.8	6837.8	6831.5	6762.8
5°	7256.5	7237.8	7181.5	7169.0	7144.0	7112.8	6994.0	6925.3	6894.0	6887.8	6794.0
7.5°	7550.3	7525.3	7456.5	7419.0	7356.5	7275.3	7125.3	7019.0	6944.0	6937.8	6806.5
10°	7844.0	7819.0	7737.8	7669.0	7581.5	7450.3	7256.5	7100.3	6981.5	6969.0	6812.8
12.5°	8194.1	8169.1	8069.1	7981.6	7850.3	7675.3	7419.0	7206.5	7044.0	7025.3	6831.5
15°	8562.8	8525.3	8425.3	8325.3	8162.8	7937.8	7631.5	7350.3	7144.0	7112.8	6887.8
17.5°	8869.1	8819.1	8737.8	8637.8	8456.6	8194.1	7844.0	7494.0	7237.8	7212.8	6944.0
20°	9131.6	9094.1	9006.6	8912.8	8719.1	8431.6	8044.1	7637.8	7325.3	7294.0	6987.8
22.5°	9381.6	9331.6	9281.6	9212.8	9000.3	8681.6	8275.3	7812.8	7437.8	7400.3	7044.0
25°	9669.1	9612.9	9594.1	9556.6	9306.6	8981.6	8556.6	8031.6	7594.0	7550.3	7144.0
27.5°	10025.4	9962.9	9925.4	9925.4	9625.4	9287.8	8856.6	8287.8	7775.3	7737.8	7269.0
30°	10400.4	10325.4	10269.1	10269.1	9931.6	9594.1	9150.3	8544.1	7981.6	7937.8	7431.5
32.5°	10731.7	10656.7	10594.1	10587.9	10237.9	9900.4	9456.6	8825.3	8231.6	8175.3	7631.5
35°	10987.9	10919.2	10862.9	10875.4	10544.1	10212.9	9800.4	9200.3	8544.1	8481.6	7894.0
37.5°	11144.2	11119.2	11087.9	11131.7	10825.4	10512.9	10156.6	9562.9	8900.3	8844.1	8219.1
40°	11225.4	11206.7	11331.7	11387.9	11062.9	10781.7	10512.9	9937.9	9287.8	9225.3	8594.1
42.5°	11344.2	11500.4	11550.4	11537.9	11237.9	10987.9	10837.9	10344.1	9744.1	9687.9	9044.1
45°	10919.2	10881.7	11156.7	11306.7	11250.4	11119.2	11144.2	10831.7	10275.4	10219.1	9562.9
47.5°	10350.4	10300.4	10456.6	10825.4	11044.2	11169.2	11419.2	11337.9	10887.9	10837.9	10169.1
50°	9150.3	9219.1	9800.4	10294.1	10725.4	11156.7	11650.4	11881.7	11562.9	11512.9	10819.2
52.5°	7819.0	7887.8	8494.1	9631.6	10337.9	11062.9	11819.2	12425.5	12294.2	12238.0	11512.9
55°	6850.3	7000.3	7687.8	8512.8	9787.9	10769.2	11919.2	12981.7	13081.7	13031.7	12269.2
57.5°	5887.7	6000.2	6519.0	7250.3	9037.8	10256.6	11912.9	13500.5	13906.8	13856.8	13038.0
60°	4756.4	4900.2	5312.7	6100.2	8037.8	9644.1	11737.9	13906.8	14700.6	14663.1	13781.8
62.5°	3981.4	4025.2	4318.9	5000.2	6750.3	8869.1	11344.2	14125.5	15419.3	15394.3	14450.5
65°	3206.4	3212.6	3481.4	4050.2	5506.5	7906.5	10675.4	14044.3	15963.1	15975.6	14931.8
67.5°	2475.1	2506.3	2750.1	3181.4	4375.2	6656.5	9719.1	13494.3	15969.4	16000.6	14656.8
70°	1712.6	1737.6	2106.3	2525.1	3381.4	5306.4	8425.3	12038.0	14656.8	14681.8	13138.0
72.5°	1206.3	1218.8	1612.6	2018.8	2643.8	4000.2	6356.5	9956.6	12494.2	12513.0	11050.4
75°	900.0	912.5	1137.5	1531.3	2025.1	2768.9	4343.9	7625.3	9981.6	9981.6	8725.3
77.5°	637.5	643.8	737.5	1056.3	1350.1	1868.8	2612.6	4993.9	7325.3	7337.8	6356.5
80°	431.3	437.5	481.3	712.5	843.8	1012.5	1418.8	2618.8	4618.9	4637.7	4037.7
82.5°	225.0	237.5	268.8	362.5	425.0	562.5	731.3	1331.3	2556.3	2606.3	2425.1
85°	87.5	87.5	100.0	118.8	156.3	218.8	337.5	506.3	1156.3	1193.8	1068.8
87.5°	31.3	31.3	37.5	37.5	43.8	50.0	56.3	75.0	131.3	131.3	125.0
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°	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3	6800.3
2.5°	6737.8	6737.8	6706.5	6719.0	6712.8	6700.3	6687.8	6706.5	6687.8	6644.0	6637.7
5°	6750.3	6737.8	6687.8	6681.5	6662.8	6637.7	6606.5	6619.0	6587.7	6550.2	6544.0
7.5°	6756.5	6731.5	6662.8	6637.7	6600.2	6550.2	6500.2	6500.2	6456.5	6419.0	6412.7
10°	6744.0	6712.8	6619.0	6569.0	6500.2	6425.2	6356.5	6337.7	6287.7	6244.0	6244.0
12.5°	6750.3	6706.5	6587.7	6506.5	6412.7	6319.0	6231.5	6206.5	6162.7	6119.0	6112.7
15°	6787.8	6725.3	6575.2	6469.0	6331.5	6225.2	6131.5	6112.7	6075.2	6044.0	6044.0
17.5°	6825.3	6744.0	6556.5	6406.5	6237.7	6119.0	6031.5	6031.5	6006.5	5987.7	5987.7
20°	6844.0	6750.3	6519.0	6319.0	6125.2	6000.2	5919.0	5931.5	5925.2	5919.0	5919.0
22.5°	6887.8	6762.8	6487.7	6237.7	6006.5	5875.2	5800.2	5819.0	5812.7	5812.7	5819.0
25°	6956.5	6794.0	6462.7	6162.7	5894.0	5750.2	5669.0	5681.5	5681.5	5681.5	5681.5
27.5°	7050.3	6856.5	6456.5	6094.0	5781.5	5619.0	5519.0	5519.0	5494.0	5500.2	5506.5
30°	7194.0	6975.3	6469.0	6031.5	5662.7	5456.5	5337.7	5318.9	5312.7	5325.2	5331.5
32.5°	7369.0	7137.8	6544.0	5987.7	5537.7	5275.2	5125.2	5118.9	5100.2	5100.2	5100.2
35°	7587.8	7294.0	6612.7	5981.5	5412.7	5081.4	4918.9	4900.2	4856.4	4837.7	4837.7
37.5°	7869.0	7537.8	6694.0	5937.7	5306.4	4893.9	4700.2	4637.7	4587.7	4581.4	4581.4
40°	8212.8	7812.8	6812.8	5887.7	5193.9	4700.2	4443.9	4337.7	4343.9	4368.9	4368.9
42.5°	8619.1	8150.3	6962.8	5862.7	5031.4	4500.2	4143.9	4018.9	4062.7	4087.7	4093.9
45°	9094.1	8550.3	7131.5	5831.5	4881.4	4275.2	3825.1	3668.9	3687.6	3693.9	3700.1
47.5°	9644.1	8994.1	7306.5	5806.5	4712.7	3993.9	3475.1	3268.9	3262.6	3225.1	3237.6
50°	10219.1	9462.9	7487.8	5762.7	4506.4	3662.6	3106.4	2862.6	2812.6	2756.4	2762.6
52.5°	10831.7	9944.1	7656.5	5694.0	4250.2	3325.1	2756.4	2493.8	2393.8	2331.3	2343.8
55°	11506.7	10437.9	7819.0	5587.7	3981.4	2987.6	2443.8	2175.1	2050.1	2000.1	2006.3
57.5°	12125.5	10912.9	7937.8	5456.5	3687.6	2681.4	2168.8	1906.3	1825.1	1818.8	1825.1
60°	12725.5	11312.9	7987.8	5275.2	3387.6	2400.1	1912.6	1712.6	1656.3	1687.6	1693.8
62.5°	13231.7	11569.2	7962.8	5031.4	3081.4	2131.3	1706.3	1562.6	1525.1	1587.6	1593.8
65°	13525.5	11650.4	7787.8	4681.4	2750.1	1868.8	1512.6	1356.3	1337.6	1375.1	1393.8
67.5°	13138.0	11144.2	7312.8	4200.2	2381.3	1625.1	1325.0	1200.0	1168.8	1200.0	1200.0
70°	11644.2	9656.6	6187.7	3437.6	1975.1	1387.6	1150.0	1062.5	1037.5	1062.5	1056.3
72.5°	9700.4	8031.6	4875.2	2681.4	1556.3	1168.8	1000.0	918.8	893.8	868.8	856.3
75°	7525.3	6100.2	3537.6	1968.8	1175.0	937.5	837.5	762.5	700.0	725.0	712.5
77.5°	5512.7	4281.4	2506.3	1362.6	843.8	725.0	656.3	600.0	556.3	606.3	600.0
80°	3550.1	2768.9	1675.1	912.5	581.3	506.3	481.3	450.0	493.8	643.8	656.3
82.5°	2168.8	1756.3	1000.0	593.8	381.3	337.5	312.5	312.5	506.3	556.3	562.5
85°	968.8	931.3	543.8	306.3	212.5	193.8	175.0	225.0	206.3	150.0	156.3
87.5°	156.3	162.5	118.8	106.3	81.3	81.3	62.5	43.8	31.3	18.8	18.8
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)