

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: P841578

Luminaire Tested: **ARCH4-200-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841578
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: ARCH4-200-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27439 lumens
Efficiency: N/A
Efficacy: 134.7 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

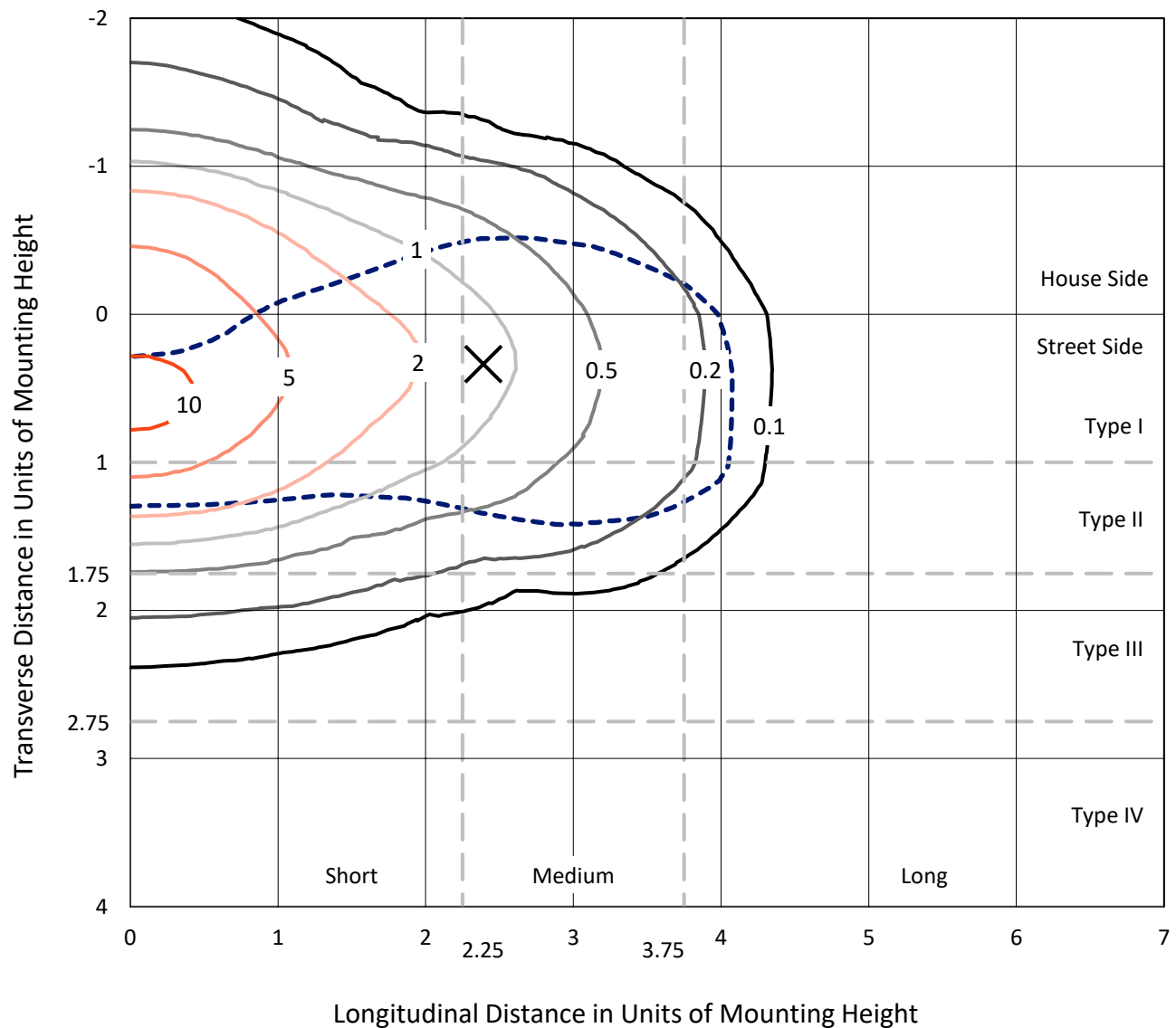
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

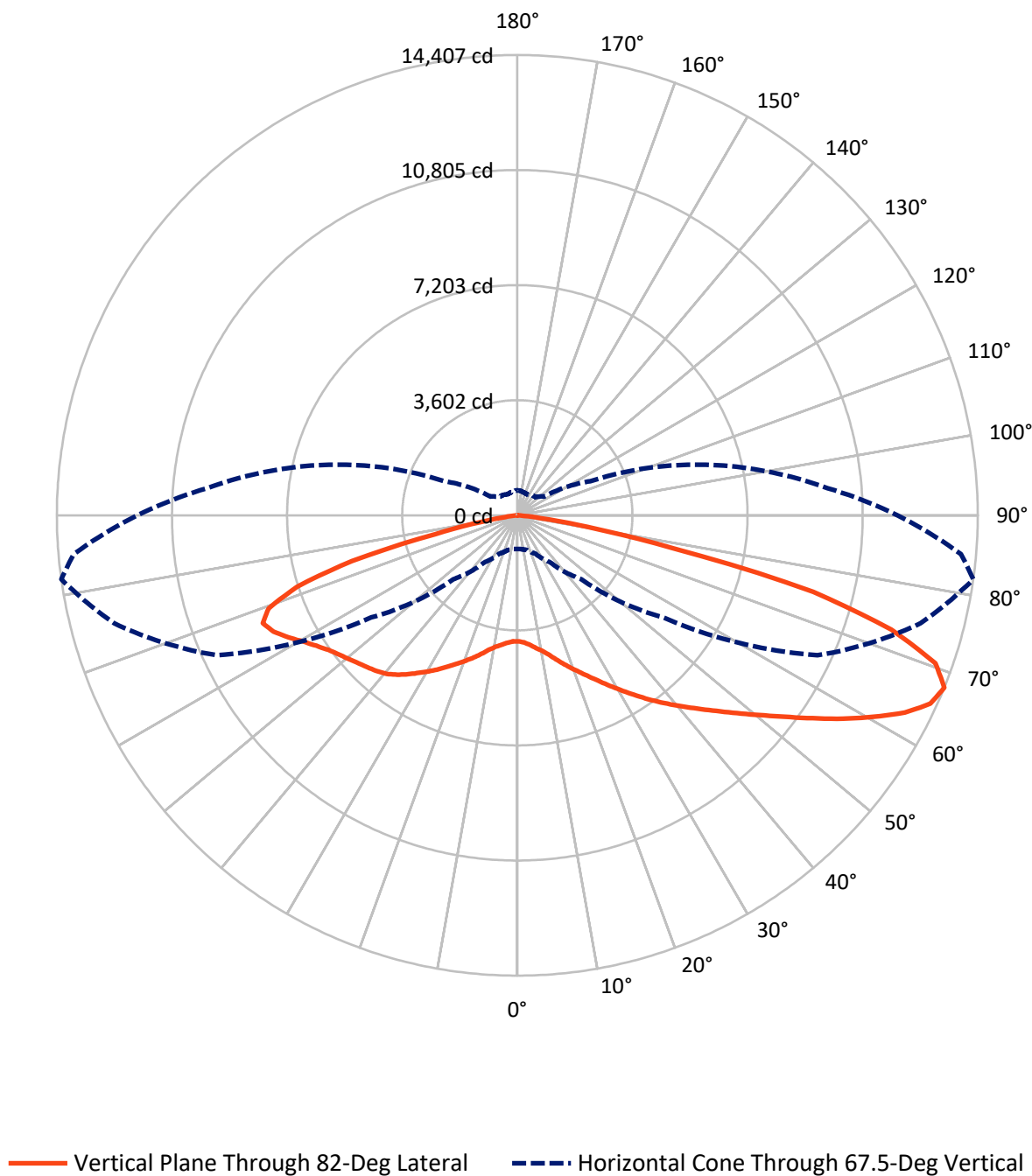
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	8356.3	0.0	8356.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	19082.7	0.0	19082.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	27439.0	0.0	27439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.6	1.5
10°-20°	1468.3	5.4
20°-30°	2950.9	10.8
30°-40°	4635.5	16.9
40°-50°	5647.0	20.6
50°-60°	5335.7	19.4
60°-70°	4406.0	16.1
70°-80°	2399.3	8.7
80°-90°	188.6	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°	27439.0	100.0
0°-180°	27439.0	100.0

Coefficient of Utilization



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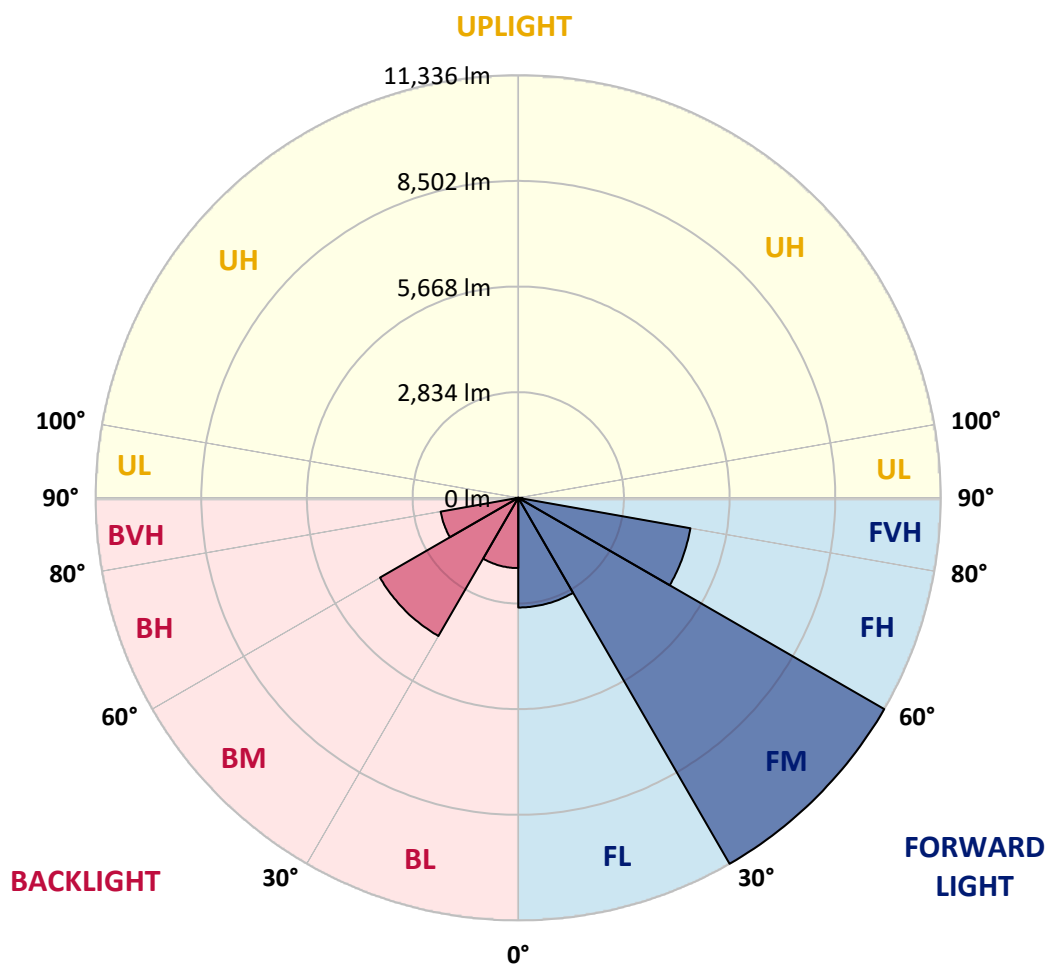
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2942.5	10.7			
FM	(30°-60°)	11336.2	41.3			
FH	(60°-80°)	4690.3	17.1			G2/5000
FVH	(80°-90°)	113.7	0.4			G2/225
BL	(0°-30°)	1884.4	6.9	B3/2500		
BM	(30°-60°)	4281.9	15.6	B3/5000		
BH	(60°-80°)	2115.0	7.7	B3/2500		G3/2500
BVH	(80°-90°)	74.9	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°	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3
2.5°	4123.6	4123.6	4155.5	4155.5	4127.6	4083.8	4071.8	4024.0	3980.2	3980.2	3984.2
5°	4518.1	4514.1	4538.0	4506.1	4438.4	4350.7	4291.0	4187.4	4099.7	4071.8	4067.9
7.5°	5000.2	4996.2	5008.1	4956.3	4828.8	4685.4	4565.9	4398.5	4255.1	4195.3	4179.4
10°	5538.0	5534.0	5522.1	5434.4	5263.1	5040.0	4860.7	4629.6	4414.5	4318.9	4298.9
12.5°	6155.6	6147.6	6119.7	5992.2	5757.1	5470.3	5211.3	4912.5	4625.6	4494.2	4450.3
15°	6844.8	6832.9	6781.1	6625.7	6310.9	5948.4	5613.7	5231.2	4880.6	4709.3	4649.5
17.5°	7569.9	7569.9	7490.3	7259.2	6908.6	6458.4	6044.0	5557.9	5147.6	4936.4	4864.7
20°	8307.0	8303.0	8203.4	7924.5	7510.2	6992.2	6466.3	5932.4	5422.5	5167.5	5079.8
22.5°	9083.9	9076.0	8952.5	8633.7	8139.7	7554.0	6940.4	6303.0	5725.3	5418.5	5306.9
25°	9976.4	9964.4	9813.0	9422.6	8836.9	8175.5	7474.3	6737.3	6071.9	5697.4	5565.9
27.5°	10924.6	10908.7	10729.4	10275.2	9633.8	8836.9	8064.0	7239.3	6454.4	6008.1	5860.7
30°	11769.3	11757.3	11562.1	11096.0	10358.9	9494.3	8625.8	7741.3	6856.8	6338.8	6155.6
32.5°	12406.7	12406.7	12231.4	11773.3	11008.3	10123.8	9191.5	8215.4	7275.1	6693.4	6478.3
35°	12793.2	12805.2	12653.8	12287.2	11566.1	10717.5	9777.2	8773.2	7721.3	7071.9	6840.8
37.5°	12849.0	12888.8	12801.2	12554.2	11952.6	11211.5	10350.9	9311.0	8183.5	7454.4	7195.4
40°	12590.0	12617.9	12621.9	12526.3	12111.9	11566.1	10856.9	9880.8	8673.6	7856.8	7558.0
42.5°	12072.1	12092.0	12127.9	12155.7	11996.4	11721.5	11243.4	10410.7	9195.5	8267.2	7916.6
45°	11402.7	11398.8	11458.5	11578.0	11570.1	11633.8	11458.5	10892.8	9737.3	8733.3	8315.0
47.5°	10402.7	10382.8	10593.9	10864.9	11000.3	11299.1	11462.5	11271.3	10327.0	9247.3	8769.2
50°	8836.9	8817.0	9279.2	9916.6	10315.1	10769.2	11243.4	11498.4	10944.6	9825.0	9263.2
52.5°	6932.5	6912.6	7498.2	8613.8	9482.4	10143.7	10801.1	11550.1	11530.2	10470.4	9821.0
55°	5155.5	5139.6	5709.3	6916.5	8323.0	9418.6	10259.3	11414.7	12080.0	11211.5	10498.3
57.5°	3633.6	3625.6	4119.6	5119.7	6832.9	8534.1	9737.3	11151.7	12586.0	12016.3	11263.3
60°	2549.9	2537.9	2896.5	3669.4	5167.5	7199.4	9219.4	10801.1	12964.5	12809.2	12076.1
62.5°	1717.2	1709.2	1964.2	2609.6	3669.4	5542.0	8434.5	10566.1	13179.7	13606.0	12896.8
65°	1302.8	1298.8	1414.4	1769.0	2597.7	3980.2	7187.5	10538.2	13207.6	14203.6	13594.0
67.5°	1051.8	1055.8	1119.6	1322.7	1796.9	2828.8	5573.9	10362.9	13060.2	14406.8	13932.7
70°	860.6	860.6	888.5	1023.9	1326.7	1908.4	3892.5	9566.0	12649.8	13876.9	13530.3
72.5°	657.4	661.4	749.0	828.7	1000.0	1338.7	2494.1	7916.6	11681.6	12235.4	11972.5
75°	521.9	517.9	569.7	681.3	776.9	956.2	1529.9	5677.5	9940.5	9562.0	9394.7
77.5°	374.5	370.5	410.4	506.0	589.7	677.3	912.4	2864.6	5406.5	4968.3	4844.8
80°	255.0	247.0	282.9	350.6	390.5	398.4	446.2	1099.6	2358.6	2223.2	2195.3
82.5°	131.5	131.5	151.4	199.2	203.2	207.2	199.2	354.6	780.9	729.1	697.2
85°	51.8	51.8	55.8	67.7	67.7	71.7	71.7	91.6	83.7	79.7	75.7
87.5°	4.0	4.0	8.0	8.0	12.0	12.0	12.0	15.9	19.9	19.9	19.9
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°	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3	3944.3
2.5°	3976.2	3960.3	3908.5	3896.5	3888.6	3876.6	3880.6	3852.7	3840.8	3844.7	3828.8
5°	4047.9	4020.0	3956.3	3928.4	3920.4	3908.5	3920.4	3900.5	3880.6	3888.6	3880.6
7.5°	4147.5	4107.7	4028.0	4000.1	3996.1	3984.2	4000.1	3984.2	3968.2	3976.2	3960.3
10°	4251.1	4199.3	4111.7	4083.8	4083.8	4079.8	4095.7	4071.8	4055.9	4059.9	4051.9
12.5°	4402.5	4334.8	4239.2	4215.3	4203.3	4215.3	4219.3	4187.4	4159.5	4163.5	4151.5
15°	4585.8	4510.1	4406.5	4370.6	4362.7	4358.7	4342.8	4302.9	4267.1	4263.1	4251.1
17.5°	4785.0	4689.4	4565.9	4530.0	4494.2	4482.2	4442.4	4390.6	4334.8	4334.8	4318.9
20°	4976.2	4868.7	4721.3	4669.5	4617.7	4569.9	4502.1	4418.5	4346.7	4334.8	4318.9
22.5°	5183.4	5055.9	4884.6	4808.9	4717.3	4621.7	4506.1	4394.6	4302.9	4283.0	4271.0
25°	5414.5	5255.1	5051.9	4940.4	4793.0	4645.6	4474.2	4330.8	4223.2	4191.4	4183.4
27.5°	5669.5	5478.3	5231.2	5067.9	4852.7	4621.7	4402.5	4231.2	4099.7	4059.9	4047.9
30°	5928.5	5701.4	5394.6	5155.5	4852.7	4546.0	4271.0	4071.8	3920.4	3864.7	3856.7
32.5°	6187.4	5932.4	5542.0	5203.3	4804.9	4418.5	4099.7	3864.7	3693.3	3625.6	3641.5
35°	6498.2	6187.4	5677.5	5223.3	4725.2	4263.1	3904.5	3629.6	3454.3	3394.5	3406.5
37.5°	6820.9	6442.4	5785.0	5207.3	4613.7	4087.8	3685.4	3418.4	3199.3	3095.7	3107.7
40°	7099.8	6673.5	5860.7	5151.5	4470.3	3888.6	3470.2	3119.6	2816.8	2717.2	2705.3
42.5°	7362.8	6844.8	5900.6	5067.9	4306.9	3657.5	3163.4	2713.2	2410.4	2286.9	2290.9
45°	7637.7	7012.2	5884.6	4956.3	4103.7	3386.6	2769.0	2314.8	2047.9	1936.3	1940.3
47.5°	7952.4	7191.5	5868.7	4836.8	3856.7	3035.9	2390.5	1964.2	1733.1	1653.4	1645.5
50°	8287.1	7390.7	5848.8	4689.4	3581.8	2645.5	2016.0	1637.5	1442.3	1390.5	1378.5
52.5°	8665.6	7605.8	5836.8	4514.1	3251.1	2231.1	1681.3	1350.6	1219.2	1183.3	1179.3
55°	9119.8	7856.8	5852.8	4302.9	2852.7	1840.7	1398.4	1163.4	1075.7	1055.8	1051.8
57.5°	9673.6	8179.5	5900.6	4055.9	2434.3	1502.0	1191.3	1047.8	992.1	976.1	976.1
60°	10275.2	8546.1	5988.2	3777.0	2016.0	1239.1	1055.8	956.2	932.3	952.2	952.2
62.5°	10924.6	8976.4	6143.6	3438.4	1625.5	1047.8	948.2	880.5	864.6	904.4	908.4
65°	11526.2	9394.7	6243.2	3032.0	1290.9	908.4	864.6	804.8	812.8	852.6	848.6
67.5°	11896.8	9741.3	6103.8	2522.0	1023.9	804.8	776.9	725.1	745.0	776.9	780.9
70°	11669.7	9546.1	5414.5	1904.4	800.8	701.2	681.3	649.4	665.4	705.2	721.1
72.5°	10558.1	8550.1	4211.3	1286.9	645.4	589.7	597.6	581.7	601.6	637.5	673.3
75°	8570.0	6462.3	2824.8	824.7	510.0	502.0	514.0	502.0	510.0	545.8	565.8
77.5°	4474.2	3151.5	1406.4	514.0	378.5	390.5	410.4	414.4	438.3	446.2	454.2
80°	2087.7	1418.4	585.7	286.9	251.0	274.9	314.8	318.7	326.7	338.7	342.6
82.5°	681.3	426.3	270.9	155.4	143.4	155.4	203.2	243.0	247.0	270.9	270.9
85°	71.7	43.8	59.8	63.7	55.8	67.7	91.6	87.7	39.8	23.9	23.9
87.5°	19.9	15.9	19.9	19.9	15.9	15.9	12.0	4.0	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)