

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: P841668

Luminaire Tested: **ARCH4-210-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841668
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: ARCH4-210-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32506 lumens
Efficiency: N/A
Efficacy: 152.5 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

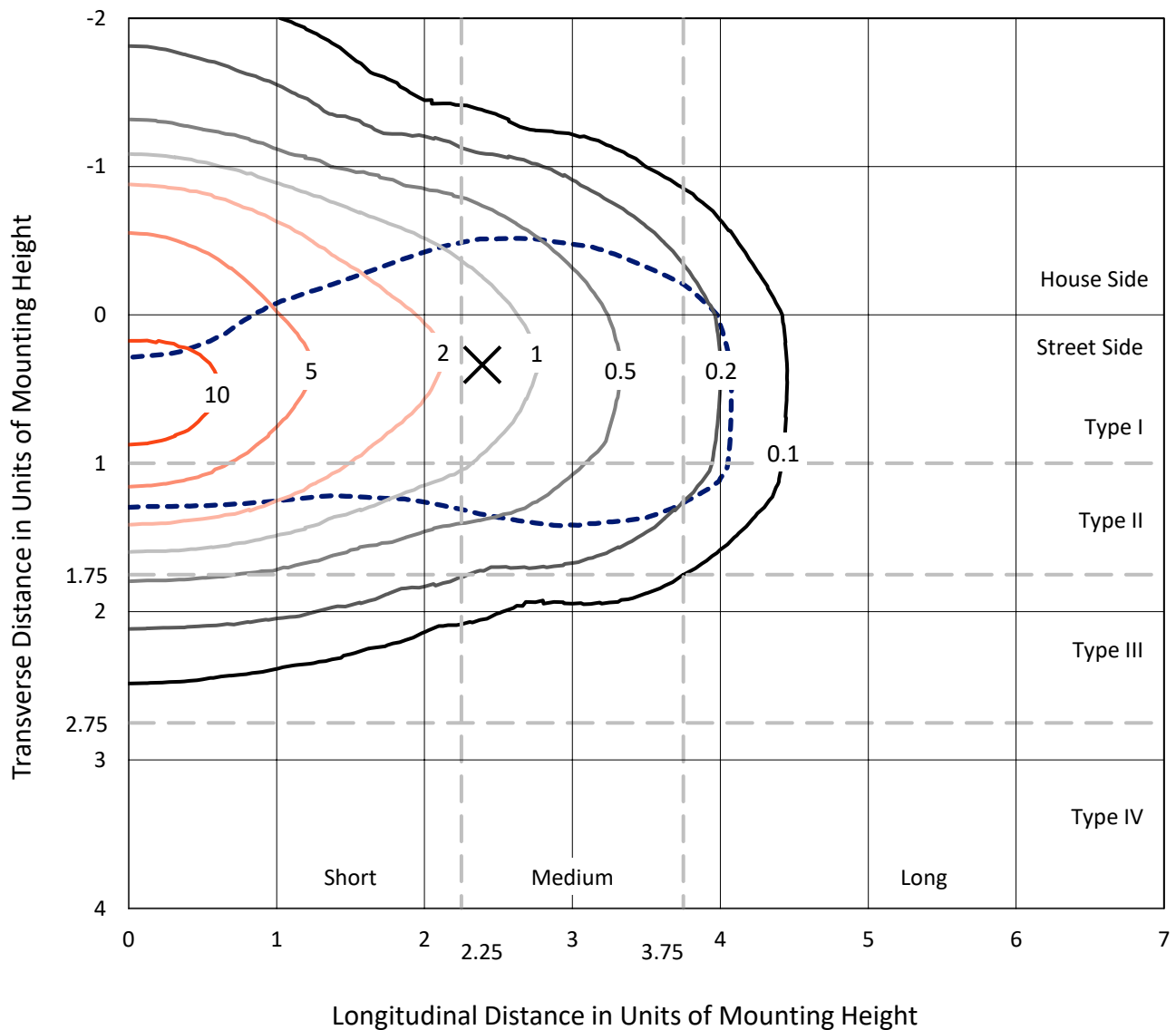
Input Watts (W): 213.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

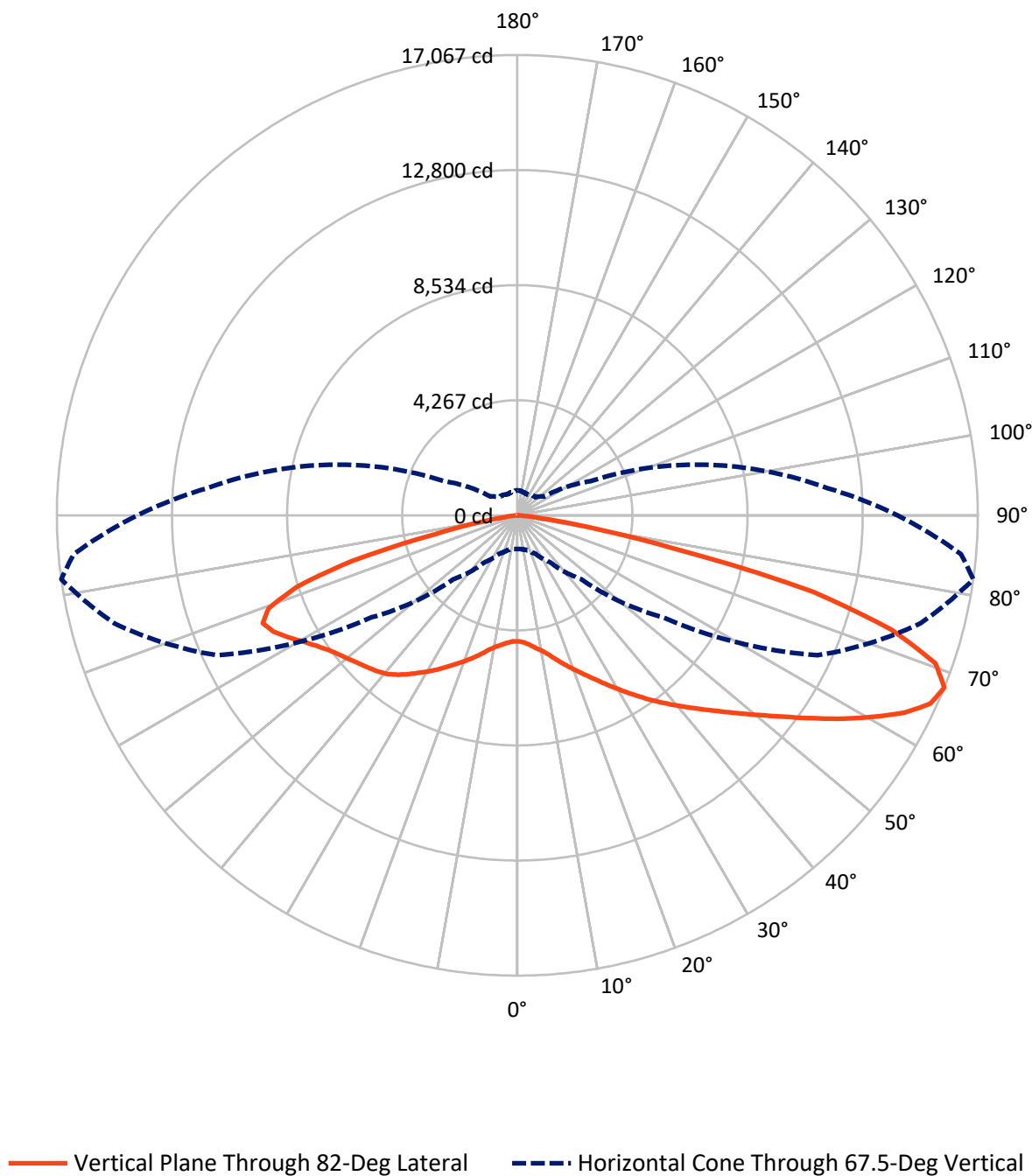
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	9899.4	0.0	9899.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	22606.6	0.0	22606.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	32506.0	0.0	32506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.9	1.5
10°-20°	1739.4	5.4
20°-30°	3495.9	10.8
30°-40°	5491.5	16.9
40°-50°	6689.8	20.6
50°-60°	6321.0	19.4
60°-70°	5219.7	16.1
70°-80°	2842.3	8.7
80°-90°	223.5	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°	32506.0	100.0
0°-180°	32506.0	100.0

Coefficient of Utilization



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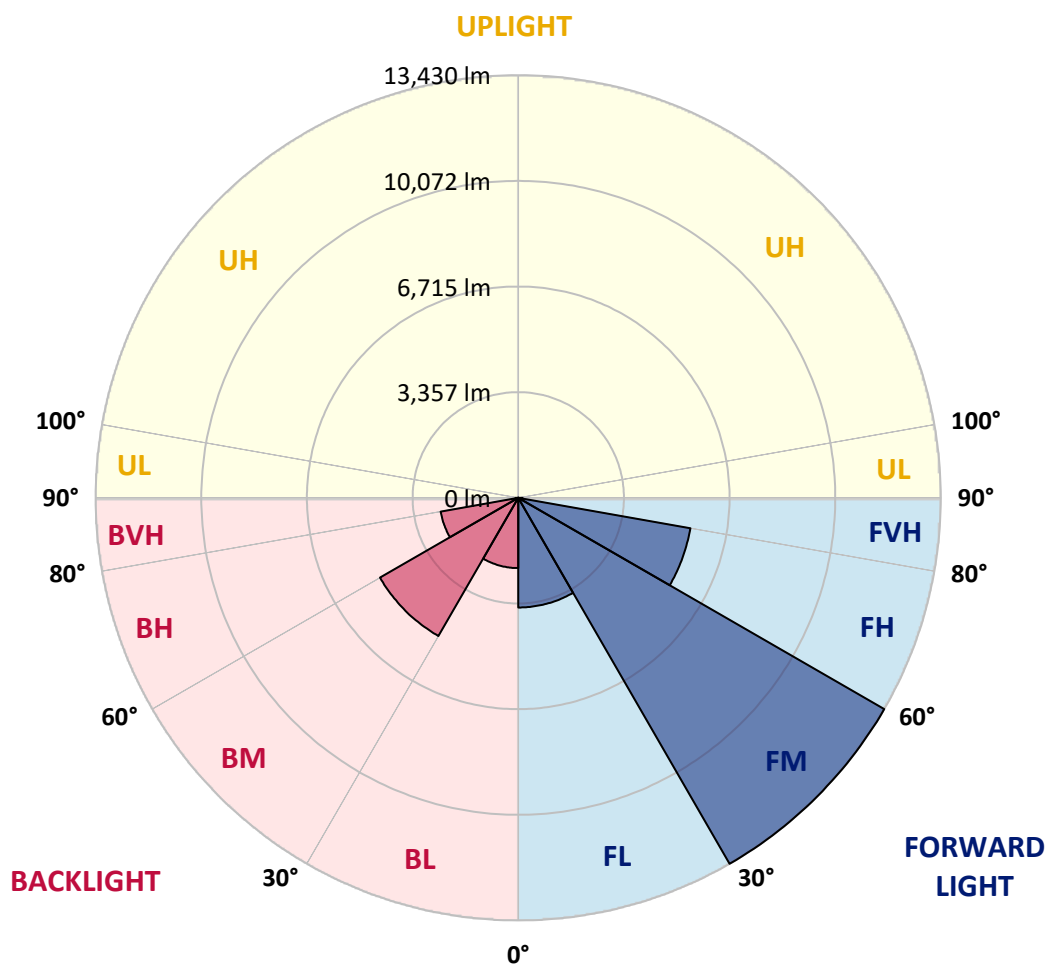
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3485.8	10.7			
FM	(30°-60°)	13429.6	41.3			
FH	(60°-80°)	5556.4	17.1			G3/7500
FVH	(80°-90°)	134.7	0.4			G2/225
BL	(0°-30°)	2232.4	6.9	B3/2500		
BM	(30°-60°)	5072.7	15.6	B4/8500		
BH	(60°-80°)	2505.6	7.7	B4/5000		G4/5000
BVH	(80°-90°)	88.8	0.3			G1/100
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°	82°	85°
0°	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7
2.5°	4885.1	4885.1	4922.9	4922.9	4889.8	4837.9	4823.8	4767.1	4715.2	4715.2	4719.9
5°	5352.4	5347.7	5376.0	5338.2	5258.0	5154.2	5083.4	4960.6	4856.8	4823.8	4819.0
7.5°	5923.5	5918.8	5932.9	5871.6	5720.5	5550.6	5409.0	5210.8	5040.9	4970.1	4951.2
10°	6560.7	6556.0	6541.8	6438.0	6235.0	5970.7	5758.3	5484.5	5229.7	5116.4	5092.8
12.5°	7292.3	7282.8	7249.8	7098.8	6820.3	6480.5	6173.7	5819.7	5479.8	5324.1	5272.2
15°	8108.8	8094.7	8033.3	7849.2	7476.4	7046.8	6650.4	6197.3	5781.9	5578.9	5508.1
17.5°	8967.8	8967.8	8873.4	8599.7	8184.3	7651.0	7160.1	6584.3	6098.1	5848.0	5763.0
20°	9841.0	9836.3	9718.3	9387.9	8897.0	8283.5	7660.4	7028.0	6423.8	6121.7	6017.9
22.5°	10761.4	10752.0	10605.7	10228.1	9642.8	8949.0	8222.1	7466.9	6782.5	6419.1	6286.9
25°	11818.7	11804.5	11625.2	11162.6	10468.8	9685.3	8854.6	7981.4	7193.2	6749.5	6593.7
27.5°	12942.0	12923.1	12710.7	12172.7	11412.8	10468.8	9553.1	8576.1	7646.3	7117.6	6943.0
30°	13942.6	13928.5	13697.2	13145.0	12271.8	11247.6	10218.6	9170.8	8123.0	7509.4	7292.3
32.5°	14697.8	14697.8	14490.2	13947.4	13041.1	11993.3	10888.9	9732.5	8618.6	7929.5	7674.6
35°	15155.7	15169.8	14990.5	14556.2	13701.9	12696.6	11582.7	10393.3	9147.2	8377.9	8104.1
37.5°	15221.7	15268.9	15165.1	14872.5	14159.8	13281.9	12262.4	11030.5	9694.7	8831.0	8524.2
40°	14914.9	14948.0	14952.7	14839.4	14348.6	13701.9	12861.8	11705.4	10275.3	9307.7	8953.7
42.5°	14301.4	14325.0	14367.4	14400.5	14211.7	13886.0	13319.6	12333.2	10893.6	9793.8	9378.5
45°	13508.4	13503.7	13574.5	13716.1	13706.6	13782.2	13574.5	12904.3	11535.5	10346.1	9850.5
47.5°	12323.7	12300.1	12550.3	12871.2	13031.7	13385.7	13579.2	13352.7	12234.0	10954.9	10388.5
50°	10468.8	10445.2	10992.7	11747.9	12219.9	12757.9	13319.6	13621.7	12965.6	11639.3	10973.8
52.5°	8212.7	8189.1	8882.9	10204.5	11233.4	12016.9	12795.7	13683.0	13659.4	12403.9	11634.6
55°	6107.6	6088.7	6763.6	8193.8	9859.9	11157.9	12153.8	13522.6	14310.8	13281.9	12437.0
57.5°	4304.6	4295.1	4880.4	6065.1	8094.7	10110.1	11535.5	13211.1	14910.2	14235.3	13343.2
60°	3020.7	3006.6	3431.4	4347.0	6121.7	8528.9	10921.9	12795.7	15358.6	15174.5	14306.1
62.5°	2034.3	2024.8	2326.9	3091.5	4347.0	6565.4	9992.1	12517.2	15613.5	16118.5	15278.4
65°	1543.4	1538.7	1675.6	2095.6	3077.4	4715.2	8514.7	12484.2	15646.5	16826.5	16104.4
67.5°	1246.1	1250.8	1326.3	1567.0	2128.7	3351.1	6603.2	12276.5	15471.9	17067.2	16505.6
70°	1019.5	1019.5	1052.5	1213.0	1571.7	2260.8	4611.4	11332.5	14985.7	16439.5	16028.8
72.5°	778.8	783.5	887.3	981.7	1184.7	1585.9	2954.7	9378.5	13838.8	14494.9	14183.4
75°	618.3	613.6	674.9	807.1	920.4	1132.8	1812.4	6725.9	11776.2	11327.8	11129.6
77.5°	443.7	439.0	486.2	599.4	698.5	802.4	1080.9	3393.6	6404.9	5885.7	5739.4
80°	302.1	292.6	335.1	415.4	462.6	472.0	528.6	1302.7	2794.2	2633.7	2600.7
82.5°	155.8	155.8	179.4	236.0	240.7	245.4	236.0	420.1	925.1	863.7	826.0
85°	61.4	61.4	66.1	80.2	80.2	85.0	85.0	108.6	99.1	94.4	89.7
87.5°	4.7	4.7	9.4	9.4	14.2	14.2	14.2	18.9	23.6	23.6	23.6
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°	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7
2.5°	4710.5	4691.6	4630.2	4616.1	4606.6	4592.5	4597.2	4564.2	4550.0	4554.7	4535.8
5°	4795.4	4762.4	4686.9	4653.8	4644.4	4630.2	4644.4	4620.8	4597.2	4606.6	4597.2
7.5°	4913.4	4866.2	4771.8	4738.8	4734.1	4719.9	4738.8	4719.9	4701.0	4710.5	4691.6
10°	5036.2	4974.8	4871.0	4837.9	4837.9	4833.2	4852.1	4823.8	4804.9	4809.6	4800.2
12.5°	5215.5	5135.3	5022.0	4993.7	4979.5	4993.7	4998.4	4960.6	4927.6	4932.3	4918.2
15°	5432.6	5342.9	5220.2	5177.8	5168.3	5163.6	5144.7	5097.5	5055.0	5050.3	5036.2
17.5°	5668.6	5555.3	5409.0	5366.5	5324.1	5309.9	5262.7	5201.4	5135.3	5135.3	5116.4
20°	5895.2	5767.7	5593.1	5531.7	5470.4	5413.7	5333.5	5234.4	5149.4	5135.3	5116.4
22.5°	6140.6	5989.6	5786.6	5696.9	5588.4	5475.1	5338.2	5206.1	5097.5	5073.9	5059.8
25°	6414.4	6225.6	5984.9	5852.7	5678.1	5503.4	5300.5	5130.6	5003.1	4965.4	4955.9
27.5°	6716.4	6489.9	6197.3	6003.7	5748.9	5475.1	5215.5	5012.6	4856.8	4809.6	4795.4
30°	7023.2	6754.2	6390.8	6107.6	5748.9	5385.4	5059.8	4823.8	4644.4	4578.3	4568.9
32.5°	7330.0	7028.0	6565.4	6164.2	5692.2	5234.4	4856.8	4578.3	4375.4	4295.1	4314.0
35°	7698.2	7330.0	6725.9	6187.8	5597.8	5050.3	4625.5	4299.8	4092.2	4021.4	4035.5
37.5°	8080.5	7632.1	6853.3	6168.9	5465.7	4842.6	4365.9	4049.7	3790.1	3667.4	3681.5
40°	8410.9	7905.9	6943.0	6102.9	5295.8	4606.6	4111.1	3695.7	3337.0	3219.0	3204.8
42.5°	8722.4	8108.8	6990.2	6003.7	5102.2	4332.9	3747.6	3214.3	2855.6	2709.2	2714.0
45°	9048.1	8307.1	6971.3	5871.6	4861.5	4011.9	3280.3	2742.3	2426.0	2293.9	2298.6
47.5°	9421.0	8519.5	6952.4	5730.0	4568.9	3596.6	2832.0	2326.9	2053.2	1958.8	1949.3
50°	9817.4	8755.5	6928.8	5555.3	4243.2	3134.0	2388.3	1939.9	1708.6	1647.3	1633.1
52.5°	10265.8	9010.3	6914.7	5347.7	3851.5	2643.2	1991.8	1600.1	1444.3	1401.8	1397.1
55°	10803.9	9307.7	6933.6	5097.5	3379.5	2180.6	1656.7	1378.2	1274.4	1250.8	1246.1
57.5°	11460.0	9690.0	6990.2	4804.9	2883.9	1779.4	1411.3	1241.3	1175.3	1156.4	1156.4
60°	12172.7	10124.2	7094.0	4474.5	2388.3	1467.9	1250.8	1132.8	1104.5	1128.1	1128.1
62.5°	12942.0	10634.0	7278.1	4073.3	1925.7	1241.3	1123.3	1043.1	1024.2	1071.4	1076.1
65°	13654.7	11129.6	7396.1	3591.9	1529.3	1076.1	1024.2	953.4	962.9	1010.1	1005.3
67.5°	14093.7	11540.2	7230.9	2987.7	1213.0	953.4	920.4	859.0	882.6	920.4	925.1
70°	13824.6	11308.9	6414.4	2256.1	948.7	830.7	807.1	769.3	788.2	835.4	854.3
72.5°	12507.8	10128.9	4989.0	1524.5	764.6	698.5	708.0	689.1	712.7	755.2	797.7
75°	10152.5	7655.7	3346.4	977.0	604.1	594.7	608.9	594.7	604.1	646.6	670.2
77.5°	5300.5	3733.5	1666.1	608.9	448.4	462.6	486.2	490.9	519.2	528.6	538.1
80°	2473.2	1680.3	693.8	339.8	297.4	325.7	372.9	377.6	387.0	401.2	405.9
82.5°	807.1	505.0	321.0	184.1	169.9	184.1	240.7	287.9	292.6	321.0	321.0
85°	85.0	51.9	70.8	75.5	66.1	80.2	108.6	103.8	47.2	28.3	28.3
87.5°	23.6	18.9	23.6	23.6	18.9	18.9	14.2	4.7	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)