

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: P836397

Luminaire Tested: **ARCH3-180-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24085 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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



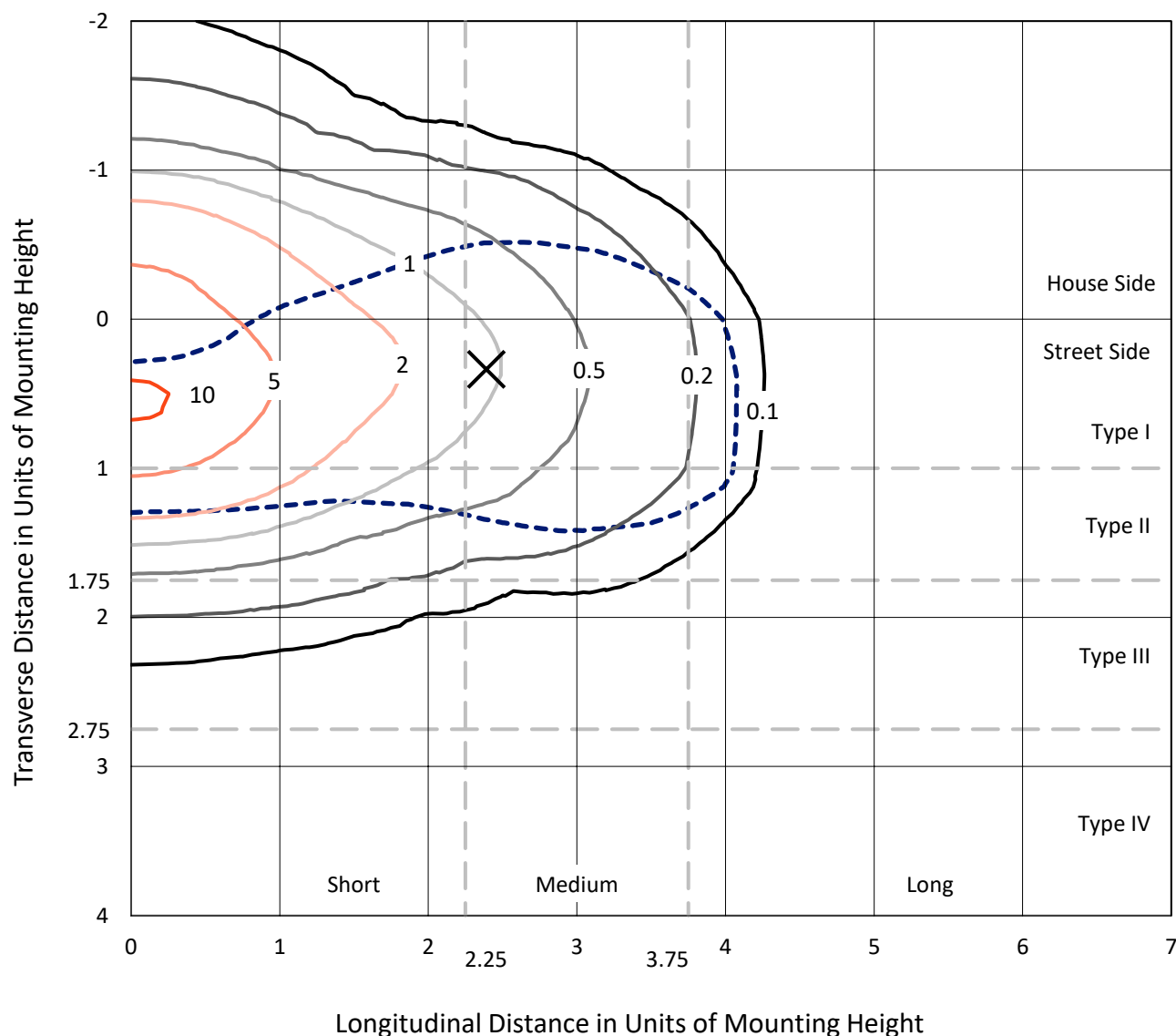
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

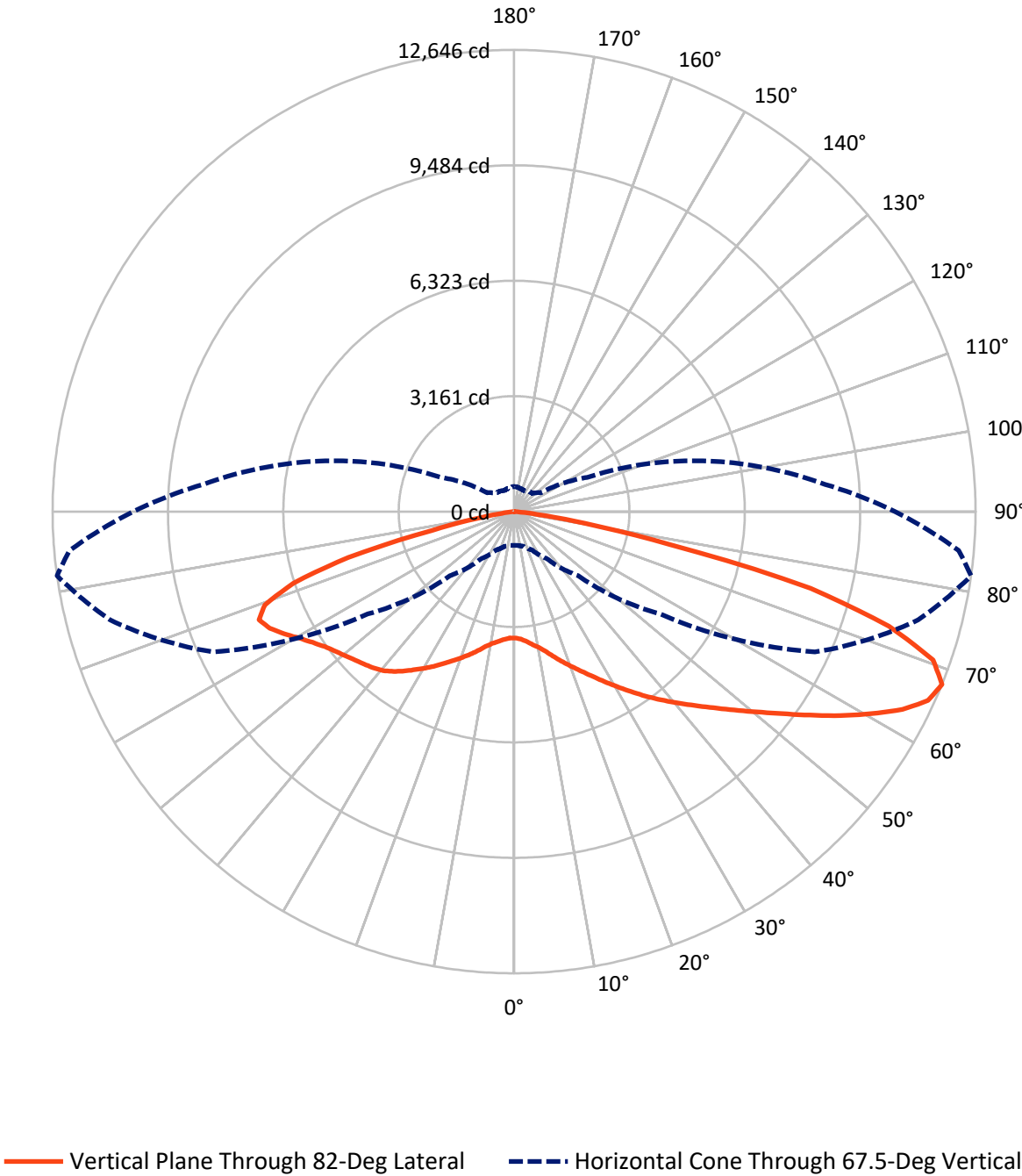
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	7334.9	0.0	7334.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16750.1	0.0	16750.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	24085.0	0.0	24085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	1.5
10°-20°	1288.8	5.4
20°-30°	2590.2	10.8
30°-40°	4068.9	16.9
40°-50°	4956.7	20.6
50°-60°	4683.5	19.4
60°-70°	3867.5	16.1
70°-80°	2106.0	8.7
80°-90°	165.6	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°	24085.0	100.0
0°-180°	24085.0	100.0

Coefficient of Utilization



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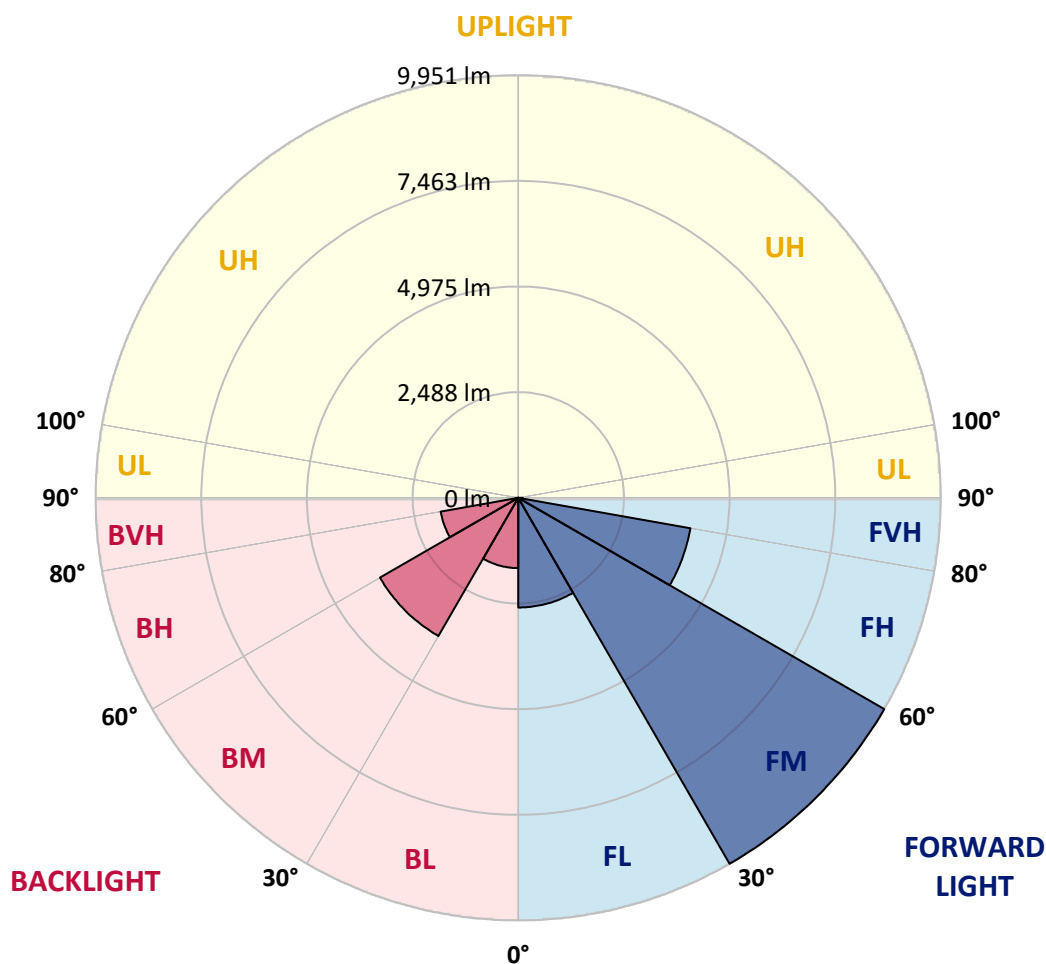
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2582.8	10.7			
FM	(30°-60°)	9950.5	41.3			
FH	(60°-80°)	4117.0	17.1			G2/5000
FVH	(80°-90°)	99.8	0.4			G1/100
BL	(0°-30°)	1654.1	6.9	B3/2500		
BM	(30°-60°)	3758.5	15.6	B3/5000		
BH	(60°-80°)	1856.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	65.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2
2.5°	3619.6	3619.6	3647.6	3647.6	3623.1	3584.6	3574.1	3532.1	3493.7	3493.7	3497.2
5°	3965.8	3962.3	3983.3	3955.3	3895.9	3818.9	3766.5	3675.5	3598.6	3574.1	3570.6
7.5°	4389.0	4385.5	4396.0	4350.5	4238.6	4112.7	4007.8	3860.9	3735.0	3682.5	3668.5
10°	4861.1	4857.6	4847.1	4770.2	4619.8	4423.9	4266.6	4063.7	3874.9	3790.9	3773.5
12.5°	5403.1	5396.1	5371.7	5259.8	5053.4	4801.6	4574.3	4312.0	4060.2	3944.8	3906.3
15°	6008.2	5997.7	5952.2	5815.8	5539.5	5221.3	4927.5	4591.8	4284.0	4133.7	4081.2
17.5°	6644.6	6644.6	6574.7	6371.9	6064.1	5668.9	5305.2	4878.6	4518.4	4333.0	4270.1
20°	7291.6	7288.1	7200.7	6955.9	6592.2	6137.5	5675.9	5207.3	4759.7	4535.8	4458.9
22.5°	7973.6	7966.6	7858.2	7578.4	7144.7	6630.6	6092.1	5532.5	5025.4	4756.2	4658.2
25°	8756.9	8746.4	8613.5	8270.8	7756.7	7176.2	6560.7	5913.7	5329.7	5001.0	4885.6
27.5°	9589.3	9575.3	9417.9	9019.2	8456.2	7756.7	7078.3	6354.4	5665.4	5273.7	5144.3
30°	10330.7	10320.2	10148.8	9739.6	9092.7	8333.8	7571.4	6795.0	6018.6	5564.0	5403.1
32.5°	10890.2	10890.2	10736.3	10334.2	9662.7	8886.3	8068.0	7211.2	6385.8	5875.3	5686.4
35°	11229.4	11239.9	11107.0	10785.3	10152.3	9407.4	8582.1	7700.8	6777.5	6207.5	6004.7
37.5°	11278.4	11313.4	11236.4	11019.6	10491.5	9841.1	9085.7	8172.9	7183.2	6543.2	6315.9
40°	11051.1	11075.6	11079.1	10995.1	10631.4	10152.3	9529.8	8673.0	7613.4	6896.4	6634.1
42.5°	10596.4	10613.9	10645.4	10669.9	10530.0	10288.7	9869.0	9138.1	8071.5	7256.6	6948.9
45°	10008.9	10005.4	10057.9	10162.8	10155.8	10211.8	10057.9	9561.3	8547.1	7665.8	7298.6
47.5°	9131.1	9113.6	9299.0	9536.8	9655.7	9918.0	10061.4	9893.5	9064.7	8117.0	7697.3
50°	7756.7	7739.3	8144.9	8704.5	9054.2	9452.9	9869.0	10092.9	9606.7	8624.0	8130.9
52.5°	6085.1	6067.6	6581.7	7560.9	8323.3	8903.8	9480.8	10138.3	10120.8	9190.6	8620.5
55°	4525.3	4511.4	5011.5	6071.1	7305.6	8267.3	9005.2	10019.4	10603.4	9841.1	9215.1
57.5°	3189.4	3182.4	3616.1	4493.9	5997.7	7491.0	8547.1	9788.6	11047.6	10547.5	9886.5
60°	2238.2	2227.7	2542.4	3220.9	4535.8	6319.4	8092.5	9480.8	11379.8	11243.4	10599.9
62.5°	1507.3	1500.3	1724.1	2290.7	3220.9	4864.6	7403.5	9274.5	11568.7	11942.9	11320.4
65°	1143.6	1140.1	1241.5	1552.7	2280.2	3493.7	6308.9	9250.0	11593.1	12467.4	11932.4
67.5°	923.3	926.8	982.7	1161.1	1577.2	2483.0	4892.6	9096.2	11463.7	12645.8	12229.6
70°	755.4	755.4	779.9	898.8	1164.6	1675.1	3416.7	8396.7	11103.5	12180.7	11876.4
72.5°	577.0	580.5	657.5	727.4	877.8	1175.1	2189.2	6948.9	10253.7	10739.8	10509.0
75°	458.1	454.6	500.1	598.0	681.9	839.3	1342.9	4983.5	8725.5	8393.2	8246.3
77.5°	328.7	325.2	360.2	444.1	517.6	594.5	800.9	2514.5	4745.7	4361.0	4252.6
80°	223.8	216.8	248.3	307.8	342.7	349.7	391.7	965.2	2070.3	1951.4	1926.9
82.5°	115.4	115.4	132.9	174.9	178.4	181.9	174.9	311.2	685.4	640.0	612.0
85°	45.5	45.5	49.0	59.5	59.5	62.9	62.9	80.4	73.4	69.9	66.4
87.5°	3.5	3.5	7.0	7.0	10.5	10.5	10.5	14.0	17.5	17.5	17.5
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°	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2	3462.2
2.5°	3490.2	3476.2	3430.7	3420.2	3413.2	3402.8	3406.3	3381.8	3371.3	3374.8	3360.8
5°	3553.1	3528.7	3472.7	3448.2	3441.2	3430.7	3441.2	3423.7	3406.3	3413.2	3406.3
7.5°	3640.6	3605.6	3535.6	3511.2	3507.7	3497.2	3511.2	3497.2	3483.2	3490.2	3476.2
10°	3731.5	3686.0	3609.1	3584.6	3584.6	3581.1	3595.1	3574.1	3560.1	3563.6	3556.6
12.5°	3864.4	3804.9	3721.0	3700.0	3689.5	3700.0	3703.5	3675.5	3651.1	3654.6	3644.1
15°	4025.3	3958.8	3867.9	3836.4	3829.4	3825.9	3811.9	3777.0	3745.5	3742.0	3731.5
17.5°	4200.1	4116.2	4007.8	3976.3	3944.8	3934.3	3899.4	3853.9	3804.9	3804.9	3790.9
20°	4368.0	4273.6	4144.2	4098.7	4053.2	4011.3	3951.8	3878.4	3815.4	3804.9	3790.9
22.5°	4549.8	4437.9	4287.5	4221.1	4140.7	4056.7	3955.3	3857.4	3777.0	3759.5	3749.0
25°	4752.7	4612.8	4434.4	4336.5	4207.1	4077.7	3927.3	3801.4	3707.0	3679.0	3672.0
27.5°	4976.5	4808.6	4591.8	4448.4	4259.6	4056.7	3864.4	3714.0	3598.6	3563.6	3553.1
30°	5203.8	5004.5	4735.2	4525.3	4259.6	3990.3	3749.0	3574.1	3441.2	3392.3	3385.3
32.5°	5431.1	5207.3	4864.6	4567.3	4217.6	3878.4	3598.6	3392.3	3241.9	3182.4	3196.4
35°	5703.9	5431.1	4983.5	4584.8	4147.7	3742.0	3427.2	3185.9	3032.1	2979.6	2990.1
37.5°	5987.2	5654.9	5077.9	4570.8	4049.7	3588.1	3234.9	3000.6	2808.2	2717.3	2727.8
40°	6232.0	5857.8	5144.3	4521.9	3923.8	3413.2	3046.0	2738.3	2472.5	2385.1	2374.6
42.5°	6462.8	6008.2	5179.3	4448.4	3780.4	3210.4	2776.8	2381.6	2115.8	2007.4	2010.9
45°	6704.1	6155.0	5165.3	4350.5	3602.1	2972.6	2430.5	2031.9	1797.5	1699.6	1703.1
47.5°	6980.4	6312.4	5151.3	4245.6	3385.3	2664.8	2098.3	1724.1	1521.3	1451.3	1444.3
50°	7274.1	6487.3	5133.9	4116.2	3144.0	2322.1	1769.6	1437.3	1266.0	1220.5	1210.0
52.5°	7606.4	6676.1	5123.4	3962.3	2853.7	1958.4	1475.8	1185.5	1070.1	1038.7	1035.2
55°	8005.0	6896.4	5137.4	3777.0	2504.0	1615.7	1227.5	1021.2	944.2	926.8	923.3
57.5°	8491.1	7179.7	5179.3	3560.1	2136.8	1318.4	1045.7	919.8	870.8	856.8	856.8
60°	9019.2	7501.4	5256.3	3315.3	1769.6	1087.6	926.8	839.3	818.3	835.8	835.8
62.5°	9589.3	7879.1	5392.6	3018.1	1426.8	919.8	832.3	772.9	758.9	793.9	797.4
65°	10117.3	8246.3	5480.1	2661.4	1133.1	797.4	758.9	706.4	713.4	748.4	744.9
67.5°	10442.6	8550.6	5357.7	2213.7	898.8	706.4	681.9	636.5	654.0	681.9	685.4
70°	10243.2	8379.2	4752.7	1671.7	702.9	615.5	598.0	570.0	584.0	619.0	633.0
72.5°	9267.5	7504.9	3696.5	1129.6	566.5	517.6	524.6	510.6	528.1	559.5	591.0
75°	7522.4	5672.4	2479.5	723.9	447.6	440.6	451.1	440.6	447.6	479.1	496.6
77.5°	3927.3	2766.3	1234.5	451.1	332.2	342.7	360.2	363.7	384.7	391.7	398.7
80°	1832.5	1245.0	514.1	251.8	220.3	241.3	276.3	279.8	286.8	297.3	300.8
82.5°	598.0	374.2	237.8	136.4	125.9	136.4	178.4	213.3	216.8	237.8	237.8
85°	62.9	38.5	52.5	56.0	49.0	59.5	80.4	76.9	35.0	21.0	21.0
87.5°	17.5	14.0	17.5	17.5	14.0	14.0	10.5	3.5	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)