

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: P836343

Luminaire Tested: **ARCH3-170-740-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836343
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: ARCH3-170-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24398 lumens
Efficiency: N/A
Efficacy: 143.0 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

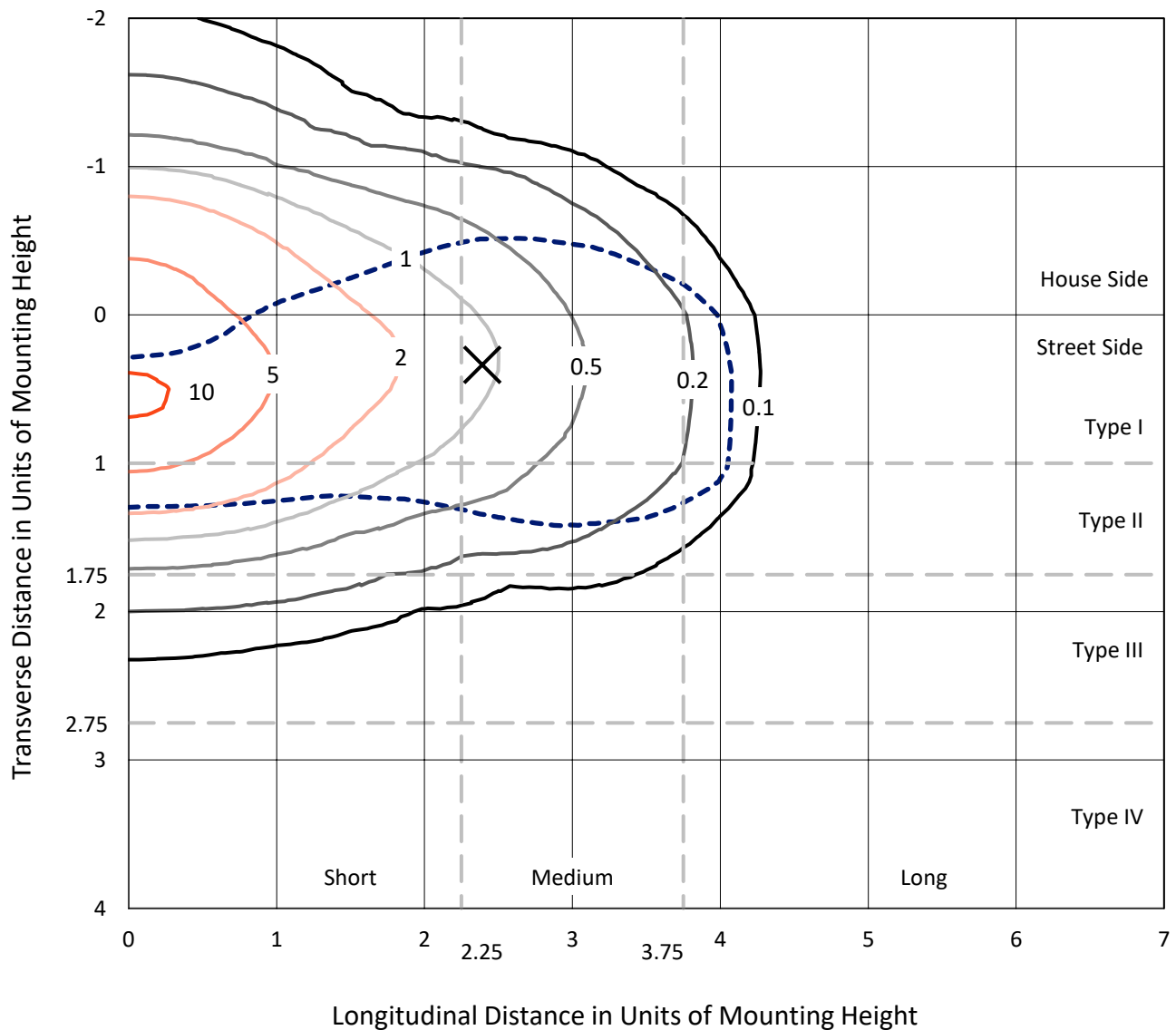
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

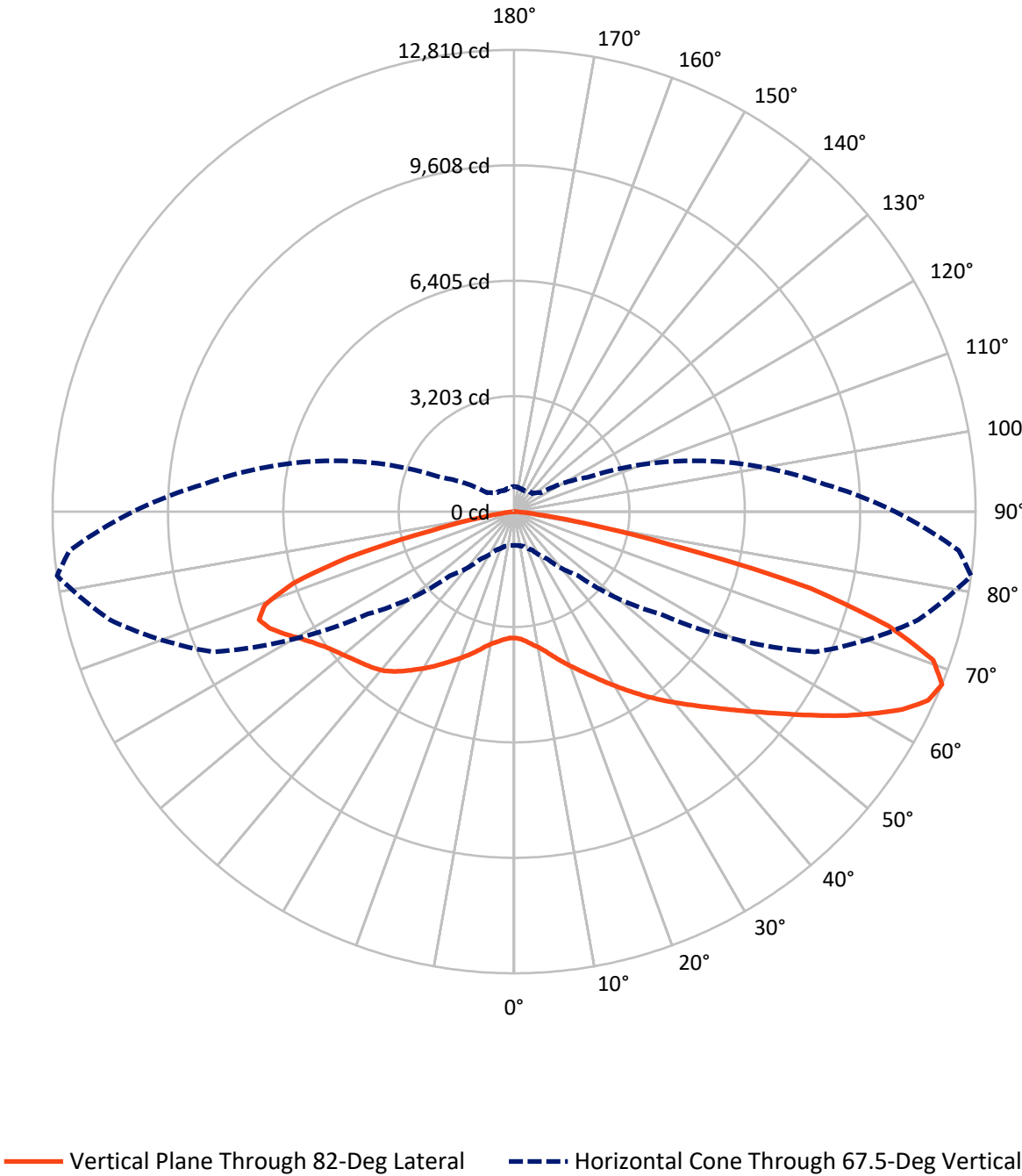
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	7430.2	0.0	7430.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16967.8	0.0	16967.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	24398.0	0.0	24398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	1.5
10°-20°	1305.6	5.4
20°-30°	2623.9	10.8
30°-40°	4121.8	16.9
40°-50°	5021.1	20.6
50°-60°	4744.3	19.4
60°-70°	3917.7	16.1
70°-80°	2133.4	8.7
80°-90°	167.7	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°	24398.0	100.0
0°-180°	24398.0	100.0

Coefficient of Utilization



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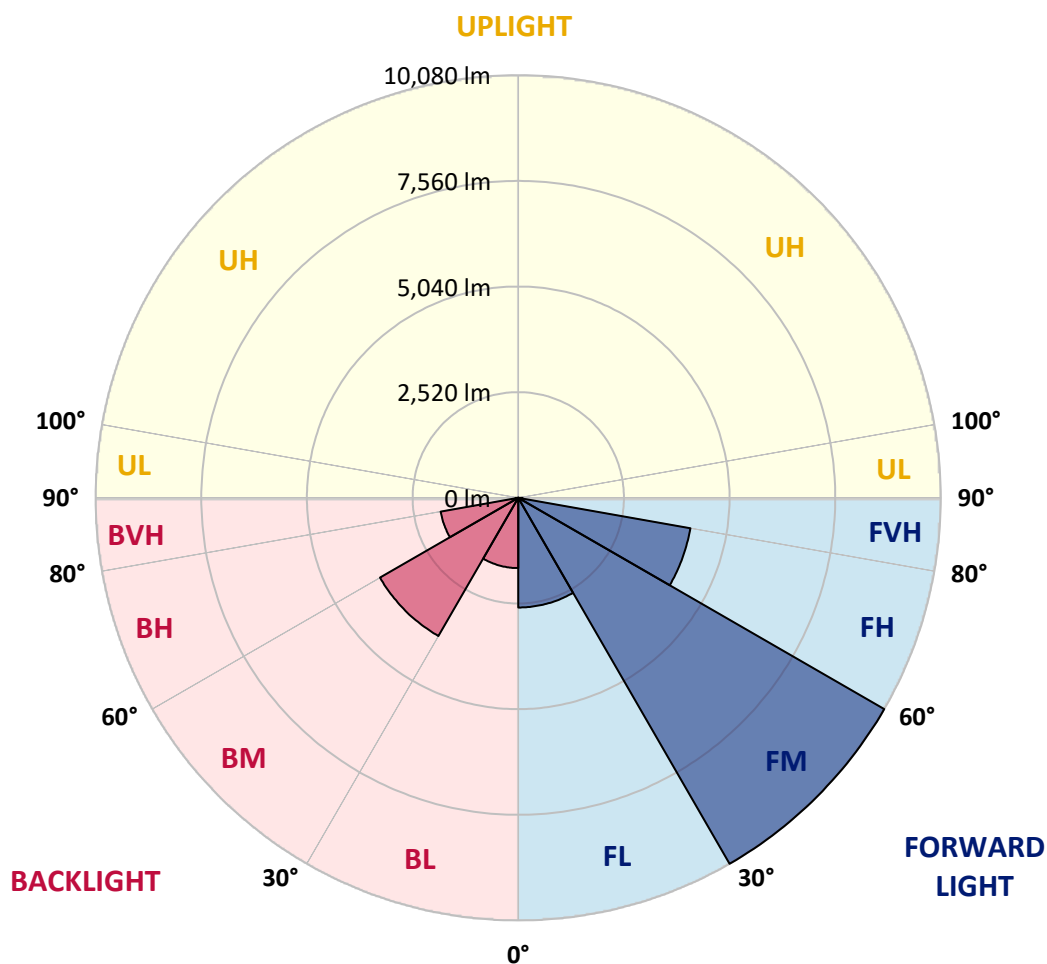
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2616.4	10.7			
FM	(30°-60°)	10079.9	41.3			
FH	(60°-80°)	4170.5	17.1			G2/5000
FVH	(80°-90°)	101.1	0.4			G2/225
BL	(0°-30°)	1675.6	6.9	B3/2500		
BM	(30°-60°)	3807.4	15.6	B3/5000		
BH	(60°-80°)	1880.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	66.6	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°	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2
2.5°	3666.6	3666.6	3695.0	3695.0	3670.2	3631.2	3620.6	3578.1	3539.1	3539.1	3542.6
5°	4017.3	4013.8	4035.1	4006.7	3946.5	3868.5	3815.4	3723.3	3645.4	3620.6	3617.0
7.5°	4446.0	4442.5	4453.1	4407.0	4293.7	4166.1	4059.8	3911.1	3783.5	3730.4	3716.2
10°	4924.3	4920.7	4910.1	4832.1	4679.8	4481.4	4322.0	4116.5	3925.2	3840.2	3822.5
12.5°	5473.4	5466.3	5441.5	5328.1	5119.1	4864.0	4633.8	4368.1	4113.0	3996.1	3957.1
15°	6086.2	6075.6	6029.5	5891.4	5611.5	5289.1	4991.6	4651.5	4339.7	4187.4	4134.2
17.5°	6731.0	6731.0	6660.1	6454.7	6142.9	5742.6	5374.2	4942.0	4577.1	4389.3	4325.5
20°	7386.4	7382.8	7294.3	7046.3	6677.9	6217.3	5749.7	5275.0	4821.5	4594.8	4516.8
22.5°	8077.2	8070.1	7960.3	7676.9	7237.6	6716.8	6171.3	5604.4	5090.8	4818.0	4718.8
25°	8870.7	8860.1	8725.5	8378.3	7857.5	7269.5	6646.0	5990.6	5399.0	5066.0	4949.0
27.5°	9713.9	9699.7	9540.3	9136.4	8566.1	7857.5	7170.3	6437.0	5739.1	5342.3	5211.2
30°	10464.9	10454.3	10280.7	9866.2	9210.8	8442.1	7669.8	6883.3	6096.9	5636.3	5473.4
32.5°	11031.7	11031.7	10875.9	10468.5	9788.3	9001.8	8172.8	7304.9	6468.8	5951.6	5760.3
35°	11375.4	11386.0	11251.4	10925.5	10284.2	9529.7	8693.6	7800.9	6865.6	6288.2	6082.7
37.5°	11425.0	11460.4	11382.5	11162.8	10627.9	9968.9	9203.7	8279.1	7276.6	6628.3	6398.0
40°	11194.7	11219.5	11223.0	11138.0	10769.6	10284.2	9653.7	8785.7	7712.3	6986.1	6720.4
42.5°	10734.2	10751.9	10783.8	10808.6	10666.8	10422.4	9997.3	9256.9	8176.4	7350.9	7039.2
45°	10139.0	10135.5	10188.6	10294.9	10287.8	10344.5	10188.6	9685.5	8658.2	7765.4	7393.5
47.5°	9249.8	9232.1	9419.8	9660.7	9781.2	10046.9	10192.1	10022.1	9182.5	8222.4	7797.3
50°	7857.5	7839.8	8250.8	8817.6	9171.9	9575.7	9997.3	10224.0	9731.6	8736.1	8236.6
52.5°	6164.2	6146.5	6667.2	7659.2	8431.5	9019.5	9604.1	10270.1	10252.4	9310.0	8732.6
55°	4584.2	4570.0	5076.6	6150.0	7400.5	8374.8	9122.3	10149.6	10741.2	9968.9	9334.8
57.5°	3230.9	3223.8	3663.1	4552.3	6075.6	7588.3	8658.2	9915.8	11191.2	10684.6	10015.0
60°	2267.3	2256.7	2575.5	3262.8	4594.8	6401.5	8197.6	9604.1	11527.7	11389.5	10737.7
62.5°	1526.9	1519.8	1746.5	2320.4	3262.8	4927.8	7499.7	9395.0	11719.0	12098.1	11467.5
65°	1158.4	1154.9	1257.6	1572.9	2309.8	3539.1	6390.9	9370.2	11743.8	12629.5	12087.4
67.5°	935.3	938.8	995.5	1176.2	1597.7	2515.3	4956.1	9214.4	11612.7	12810.1	12388.6
70°	765.2	765.2	790.0	910.5	1179.7	1696.9	3461.1	8505.8	11247.8	12339.0	12030.8
72.5°	584.5	588.1	666.0	736.9	889.2	1190.3	2217.7	7039.2	10387.0	10879.4	10645.6
75°	464.1	460.5	506.6	605.8	690.8	850.2	1360.4	5048.2	8838.9	8502.3	8353.5
77.5°	333.0	329.5	364.9	449.9	524.3	602.2	811.3	2547.1	4807.3	4417.7	4307.8
80°	226.7	219.6	251.5	311.8	347.2	354.3	396.8	977.8	2097.2	1976.8	1952.0
82.5°	116.9	116.9	134.6	177.1	180.7	184.2	177.1	315.3	694.4	648.3	620.0
85°	46.1	46.1	49.6	60.2	60.2	63.8	63.8	81.5	74.4	70.9	67.3
87.5°	3.5	3.5	7.1	7.1	10.6	10.6	10.6	14.2	17.7	17.7	17.7
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°	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2	3507.2
2.5°	3535.5	3521.4	3475.3	3464.7	3457.6	3447.0	3450.5	3425.7	3415.1	3418.6	3404.5
5°	3599.3	3574.5	3517.8	3493.0	3485.9	3475.3	3485.9	3468.2	3450.5	3457.6	3450.5
7.5°	3687.9	3652.4	3581.6	3556.8	3553.3	3542.6	3556.8	3542.6	3528.5	3535.5	3521.4
10°	3780.0	3733.9	3656.0	3631.2	3631.2	3627.6	3641.8	3620.6	3606.4	3609.9	3602.9
12.5°	3914.6	3854.4	3769.4	3748.1	3737.5	3748.1	3751.6	3723.3	3698.5	3702.0	3691.4
15°	4077.6	4010.3	3918.1	3886.3	3879.2	3875.6	3861.5	3826.0	3794.2	3790.6	3780.0
17.5°	4254.7	4169.7	4059.8	4028.0	3996.1	3985.5	3950.0	3904.0	3854.4	3854.4	3840.2
20°	4424.7	4329.1	4198.0	4152.0	4105.9	4063.4	4003.2	3928.8	3865.0	3854.4	3840.2
22.5°	4609.0	4495.6	4343.3	4275.9	4194.5	4109.4	4006.7	3907.5	3826.0	3808.3	3797.7
25°	4814.4	4672.7	4492.0	4392.9	4261.8	4130.7	3978.4	3850.8	3755.2	3726.8	3719.8
27.5°	5041.2	4871.1	4651.5	4506.2	4314.9	4109.4	3914.6	3762.3	3645.4	3609.9	3599.3
30°	5271.4	5069.5	4796.7	4584.2	4314.9	4042.1	3797.7	3620.6	3485.9	3436.3	3429.3
32.5°	5501.7	5275.0	4927.8	4626.7	4272.4	3928.8	3645.4	3436.3	3284.0	3223.8	3238.0
35°	5778.0	5501.7	5048.2	4644.4	4201.6	3790.6	3471.8	3227.3	3071.5	3018.3	3028.9
37.5°	6065.0	5728.4	5143.9	4630.2	4102.4	3634.7	3276.9	3039.6	2844.7	2752.6	2763.2
40°	6313.0	5933.9	5211.2	4580.6	3974.8	3457.6	3085.6	2773.9	2504.6	2416.1	2405.4
42.5°	6546.8	6086.2	5246.6	4506.2	3829.6	3252.1	2812.8	2412.5	2143.3	2033.5	2037.0
45°	6791.2	6235.0	5232.5	4407.0	3648.9	3011.2	2462.1	2058.3	1820.9	1721.7	1725.3
47.5°	7071.1	6394.4	5218.3	4300.7	3429.3	2699.5	2125.6	1746.5	1541.0	1470.2	1463.1
50°	7368.7	6571.6	5200.6	4169.7	3184.8	2352.3	1792.6	1456.0	1282.4	1236.4	1225.7
52.5°	7705.2	6762.9	5189.9	4013.8	2890.8	1983.9	1495.0	1201.0	1084.0	1052.2	1048.6
55°	8109.1	6986.1	5204.1	3826.0	2536.5	1636.7	1243.5	1034.4	956.5	938.8	935.3
57.5°	8601.5	7273.0	5246.6	3606.4	2164.5	1335.6	1059.2	931.7	882.1	867.9	867.9
60°	9136.4	7598.9	5324.6	3358.4	1792.6	1101.8	938.8	850.2	829.0	846.7	846.7
62.5°	9713.9	7981.5	5462.7	3057.3	1445.4	931.7	843.1	782.9	768.7	804.2	807.7
65°	10248.8	8353.5	5551.3	2695.9	1147.8	807.7	768.7	715.6	722.7	758.1	754.6
67.5°	10578.3	8661.7	5427.3	2242.5	910.5	715.6	690.8	644.8	662.5	690.8	694.4
70°	10376.4	8488.1	4814.4	1693.4	712.1	623.5	605.8	577.4	591.6	627.0	641.2
72.5°	9388.0	7602.5	3744.6	1144.3	573.9	524.3	531.4	517.2	534.9	566.8	598.7
75°	7620.2	5746.1	2511.7	733.3	453.5	446.4	457.0	446.4	453.5	485.3	503.1
77.5°	3978.4	2802.2	1250.5	457.0	336.5	347.2	364.9	368.4	389.7	396.8	403.9
80°	1856.3	1261.2	520.8	255.1	223.2	244.4	279.9	283.4	290.5	301.1	304.7
82.5°	605.8	379.1	240.9	138.2	127.5	138.2	180.7	216.1	219.6	240.9	240.9
85°	63.8	39.0	53.1	56.7	49.6	60.2	81.5	77.9	35.4	21.3	21.3
87.5°	17.7	14.2	17.7	17.7	14.2	14.2	10.6	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)