

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: P478882

Luminaire Tested: **IFLD-M-SA4E-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478882
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

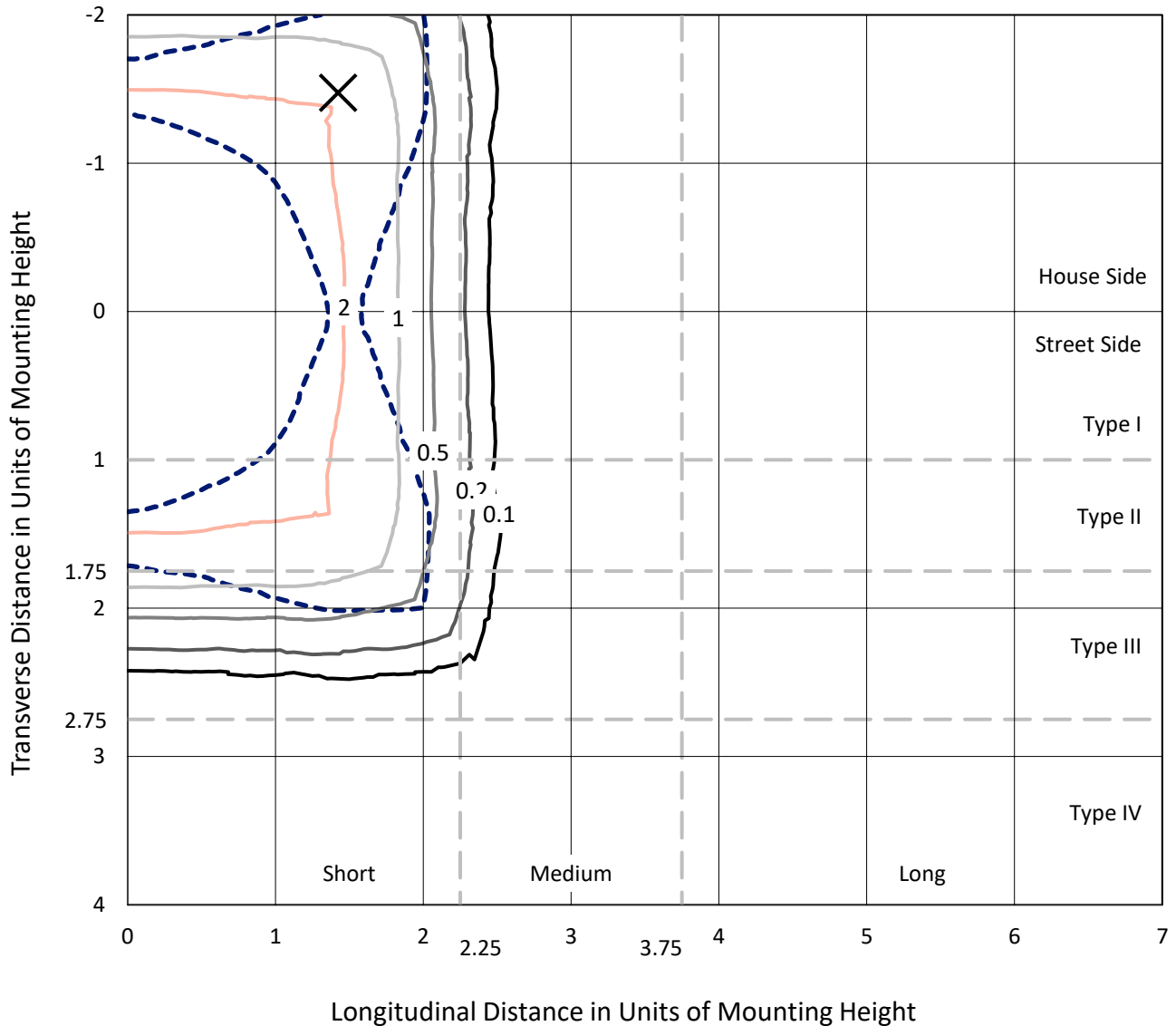
Lumens per Lamp: N/A
Luminaire Lumens: 32881.3 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 314.8
Input Voltage (V): 120
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

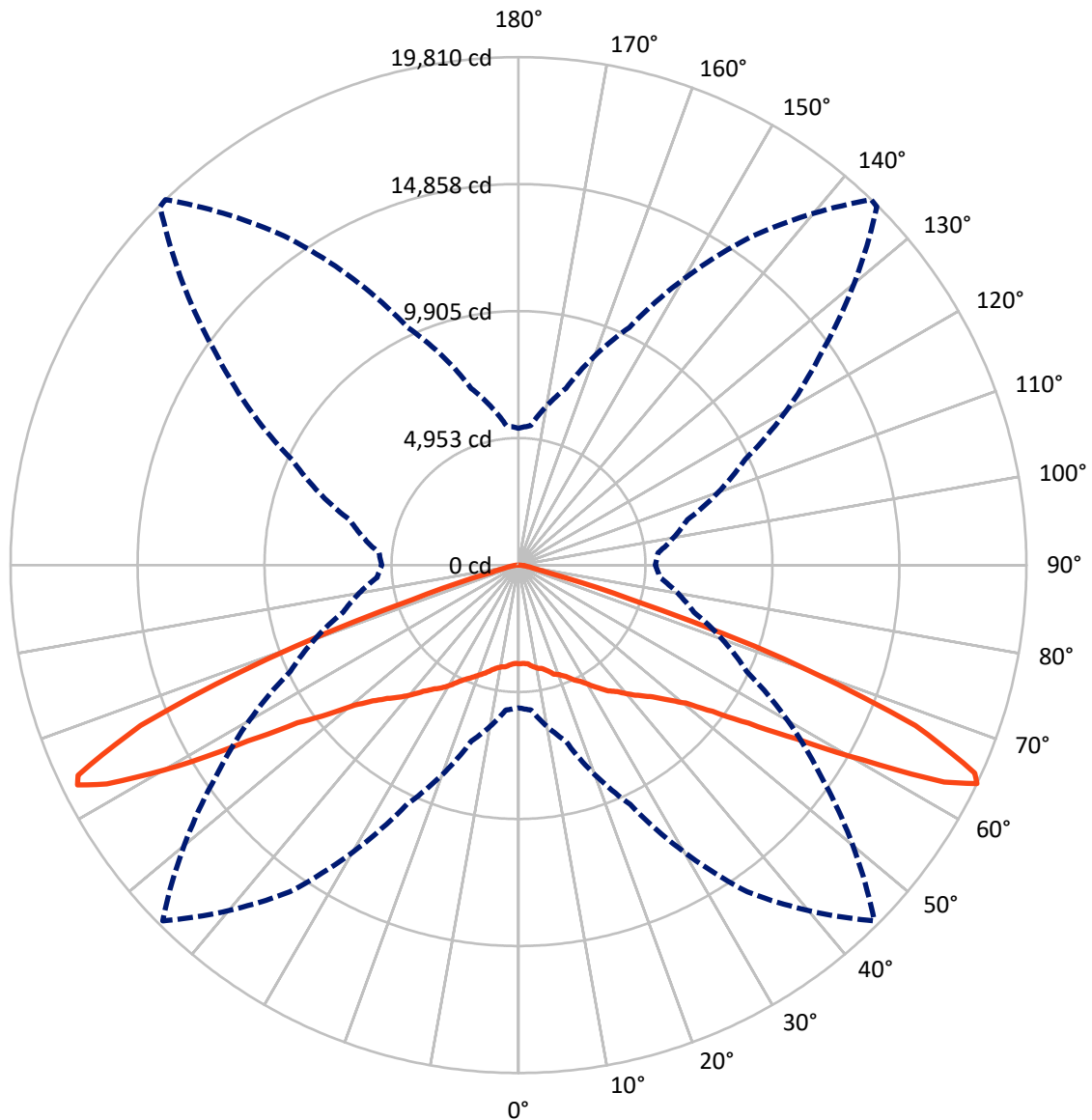
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16456.3	0.0	16456.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16425.0	0.0	16425.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32881.3	0.0	32881.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.3	1.2
10°-20°	1219.2	3.7
20°-30°	2291.3	7.0
30°-40°	3778.7	11.5
40°-50°	5909.6	18.0
50°-60°	9548.6	29.0
60°-70°	8597.8	26.1
70°-80°	1018.5	3.1
80°-90°	139.4	0.4
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°	32881.3	100.0
0°-180°	32881.3	100.0

Coefficient of Utilization



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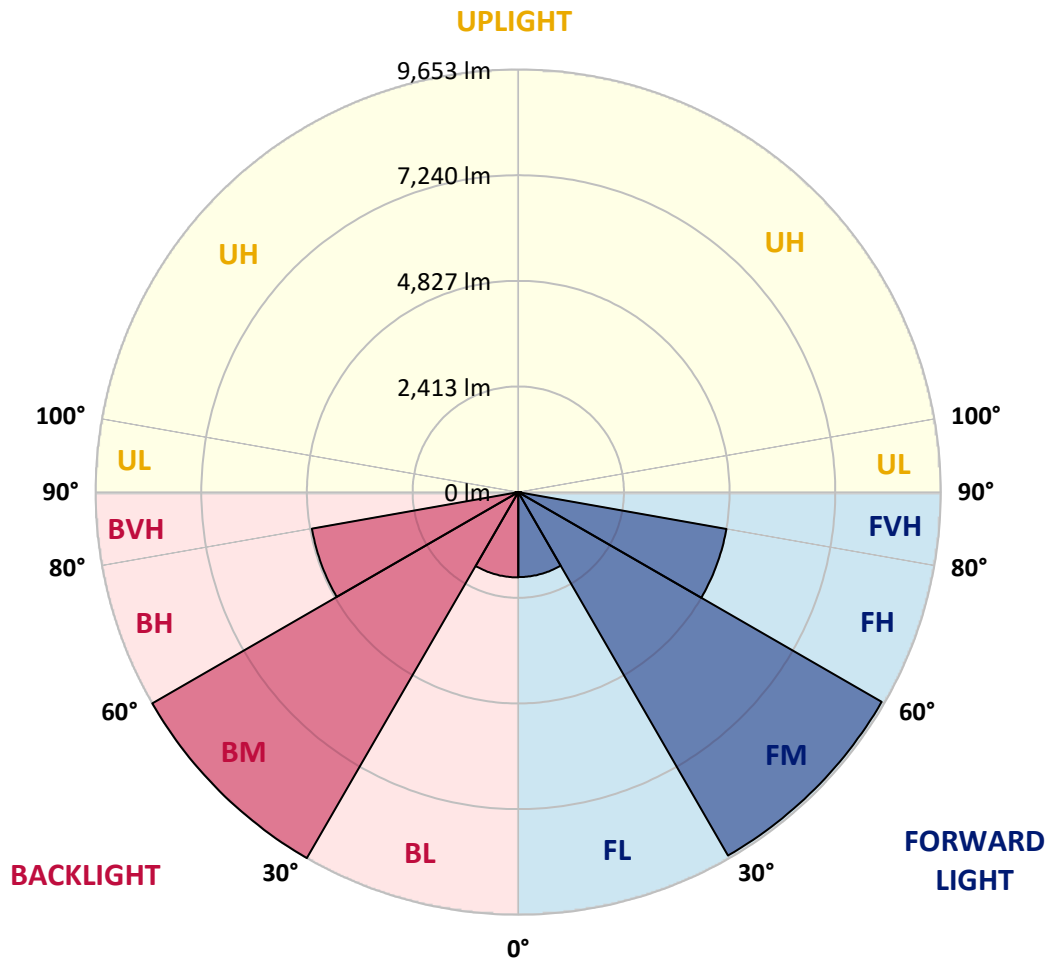
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.6	5.9			
FM (30°-60°)	9583.9	29.1			
FH (60°-80°)	4829.0	14.7			G2/5000
FVH (80°-90°)	71.5	0.2			G1/100
BL (0°-30°)	1948.1	5.9	B3/2500		
BM (30°-60°)	9653.0	29.4	B5		
BH (60°-80°)	4787.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	67.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7
2.5°	3804.5	3812.0	3879.9	3853.5	3876.1	3834.6	3864.8	3928.9	3853.5	3910.1	3928.9
5°	3846.0	3857.3	3857.3	3883.7	3898.7	3891.2	3910.1	3883.7	3955.3	3925.1	3970.4
7.5°	3996.8	3977.9	3947.8	3970.4	3974.2	3993.0	4011.9	4045.8	4034.5	4008.1	4053.3
10°	4023.2	4008.1	4053.3	4057.1	4038.3	4023.2	4042.0	4042.0	4076.0	4083.5	4083.5
12.5°	4068.4	4083.5	4079.7	4109.9	4113.7	4102.4	4132.5	4189.1	4174.0	4185.3	4158.9
15°	4241.9	4223.0	4219.2	4249.4	4298.4	4226.8	4279.6	4275.8	4260.7	4283.3	4223.0
17.5°	4392.7	4332.4	4358.7	4407.8	4388.9	4404.0	4471.9	4411.5	4426.6	4400.2	4381.4
20°	4524.7	4475.6	4479.4	4498.3	4498.3	4543.5	4569.9	4547.3	4532.2	4528.4	4536.0
22.5°	4671.7	4615.1	4618.9	4698.1	4724.5	4709.4	4690.6	4728.3	4735.8	4705.6	4739.6
25°	4781.0	4841.4	4860.2	4897.9	4841.4	4882.9	4867.8	4939.4	4984.7	4924.3	4965.8
27.5°	5067.6	5041.2	5090.2	5086.5	5131.7	5090.2	5116.6	5139.3	5158.1	5161.9	5143.0
30°	5324.0	5335.3	5286.3	5418.3	5312.7	5380.6	5425.8	5437.1	5459.7	5459.7	5403.2
32.5°	5595.5	5572.9	5652.0	5621.9	5603.0	5655.8	5606.8	5761.4	5670.9	5723.7	5659.6
35°	5900.9	5900.9	5931.1	6014.0	5900.9	5867.0	5957.5	6021.6	6021.6	5927.3	5949.9
37.5°	6244.0	6213.9	6251.6	6357.1	6270.4	6157.3	6323.2	6349.6	6330.7	6304.3	6259.1
40°	6485.3	6477.8	6553.2	6692.7	6568.3	6545.7	6575.8	6647.5	6670.1	6696.5	6636.2
42.5°	6892.6	6926.5	7145.2	7111.2	7009.4	6930.3	6922.7	7190.4	7126.3	7058.5	7024.5
45°	7495.8	7465.7	7578.8	7582.6	7450.6	7277.1	7314.9	7559.9	7669.3	7518.5	7575.0
47.5°	7974.7	7989.8	8069.0	8231.1	7925.7	7744.7	7884.2	8280.1	8246.2	8189.6	8242.4
50°	8615.7	8683.6	8932.4	8875.9	8604.4	8381.9	8687.3	9060.6	9102.1	8894.7	8857.0
52.5°	9501.8	9607.3	9743.1	9788.3	9528.2	9449.0	9467.8	9931.6	9829.8	9630.0	9501.8
55°	10278.5	10327.5	10576.4	10949.7	10930.8	10550.0	10768.7	10942.1	10527.4	10116.4	10150.3
57.5°	10610.3	10632.9	11326.7	12073.3	12518.2	12604.9	12356.1	11771.6	10783.8	9991.9	9942.9
60°	9784.6	9999.5	10836.5	12522.0	14554.3	15557.3	13902.0	11865.9	10184.2	9222.7	9151.1
62.5°	7820.1	7831.4	9075.7	11632.1	15821.2	18449.3	14494.0	10979.8	8585.5	7495.8	7209.3
64°	5569.1	5674.7	7103.7	10297.4	15557.3	19625.7	14422.3	9822.3	7077.3	5531.4	5331.5
65°	3996.8	4143.8	5523.8	8940.0	14938.9	19486.2	14207.4	8826.8	5723.7	4223.0	4019.4
67.5°	1470.5	1530.8	2168.1	4471.9	10727.2	16605.5	11258.8	4852.7	2515.0	1791.0	1610.0
70°	682.5	686.2	803.1	1478.1	4690.6	11104.3	5373.0	1821.2	946.4	750.3	697.6
72.5°	501.5	512.8	561.8	682.5	1380.0	4701.9	1764.6	746.6	554.3	490.2	478.9
75°	407.2	414.8	429.8	493.9	637.2	1259.4	716.4	516.6	441.2	395.9	380.8
77.5°	313.0	313.0	346.9	377.1	422.3	588.2	475.1	411.0	358.2	313.0	301.6
80°	226.2	230.0	271.5	294.1	286.6	388.4	343.1	339.3	294.1	245.1	226.2
82.5°	132.0	143.3	196.1	211.2	203.6	230.0	248.9	263.9	230.0	169.7	154.6
85°	75.4	79.2	113.1	116.9	116.9	109.3	143.3	158.4	154.6	105.6	94.3
87.5°	22.6	22.6	30.2	30.2	33.9	37.7	56.6	67.9	75.4	52.8	49.0
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7	3849.7
2.5°	3910.1	3853.5	3857.3	3872.3	3823.3	3842.2	3898.7	3857.3	3846.0	3823.3	3812.0
5°	3891.2	3951.5	3928.9	3936.4	3925.1	3872.3	3864.8	3898.7	3917.6	3883.7	3951.5
7.5°	4023.2	3996.8	3966.6	3977.9	3951.5	3996.8	4026.9	3959.1	3993.0	3974.2	3936.4
10°	4098.6	4049.6	4072.2	4064.6	4045.8	4091.0	4060.9	4053.3	4023.2	3981.7	4042.0
12.5°	4125.0	4181.5	4219.2	4155.1	4166.5	4143.8	4125.0	4125.0	4091.0	4079.7	4091.0
15°	4241.9	4290.9	4275.8	4324.8	4260.7	4283.3	4306.0	4249.4	4279.6	4196.6	4260.7
17.5°	4456.8	4415.3	4468.1	4404.0	4426.6	4471.9	4400.2	4400.2	4422.8	4377.6	4321.0
20°	4592.5	4573.7	4554.8	4558.6	4520.9	4562.4	4539.7	4528.4	4494.5	4509.6	4539.7
22.5°	4720.7	4694.3	4701.9	4713.2	4739.6	4720.7	4709.4	4720.7	4637.8	4713.2	4607.6
25°	4879.1	4950.7	4928.1	4977.1	4901.7	4950.7	4947.0	4875.3	4920.6	4890.4	4867.8
27.5°	5143.0	5105.3	5139.3	5078.9	5131.7	5135.5	5090.2	5210.9	5158.1	5150.6	5135.5
30°	5482.4	5456.0	5433.4	5399.4	5440.9	5407.0	5444.7	5456.0	5407.0	5369.3	5297.6
32.5°	5674.7	5746.3	5772.7	5689.8	5693.5	5712.4	5678.4	5644.5	5674.7	5686.0	5674.7
35°	5946.1	6014.0	6029.1	5965.0	5931.1	6025.3	5957.5	6070.6	5972.5	5976.3	5874.5
37.5°	6262.9	6281.7	6409.9	6338.3	6308.1	6262.9	6387.3	6372.2	6394.8	6213.9	6304.3
40°	6621.1	6688.9	6760.6	6579.6	6575.8	6617.3	6609.8	6696.5	6655.0	6628.6	6564.5
42.5°	7013.2	7156.5	7167.8	7047.1	6971.7	6964.2	7001.9	7194.2	7198.0	7024.5	6949.1
45°	7533.5	7691.9	7650.4	7416.7	7333.7	7322.4	7507.2	7590.1	7661.7	7593.9	7529.8
47.5°	8182.1	8287.7	8257.5	8042.6	7774.9	7850.3	8031.3	8291.4	8216.0	8125.5	8050.1
50°	8875.9	9000.3	8936.2	8721.3	8464.9	8464.9	8687.3	9019.1	8996.5	8819.3	8751.4
52.5°	9645.1	9826.0	9973.1	9667.7	9452.8	9486.7	9837.3	9958.0	9901.4	9777.0	9720.5
55°	10218.2	10565.1	10866.7	10881.8	10893.1	10889.3	10979.8	11100.5	10697.0	10497.2	10293.6
57.5°	10078.7	10734.7	11767.9	12469.2	12676.6	12785.9	12755.7	12197.7	11243.8	10587.7	10655.6
60°	9083.2	10154.1	11820.7	14071.7	15579.9	15429.1	14878.6	12672.8	10942.1	9833.6	9694.1
62.5°	7247.0	8536.5	10934.6	14524.1	18679.3	18634.0	15753.3	11575.6	9117.2	7714.5	7627.8
64°	5459.7	6817.1	9754.4	14407.2	19765.2	19810.4	15530.9	10225.7	7133.9	5459.7	5327.8
65°	4177.8	5437.1	8596.8	14165.9	19531.4	19557.8	14912.5	8830.6	5422.0	3876.1	3732.8
67.5°	1662.8	2315.1	4664.2	10742.3	16771.4	16699.7	10640.5	4272.0	2073.8	1349.9	1323.5
70°	708.9	882.3	1636.4	5090.2	11228.7	11021.3	4581.2	1387.6	769.2	644.8	641.0
72.5°	486.4	539.2	701.3	1572.3	4667.9	4558.6	1304.6	644.8	524.1	482.6	482.6
75°	392.1	429.8	509.0	659.8	1236.7	1191.5	614.6	475.1	418.5	388.4	384.6
77.5°	305.4	343.1	399.7	456.2	565.6	561.8	411.0	358.2	324.3	301.6	294.1
80°	241.3	279.0	316.7	324.3	369.5	362.0	279.0	282.8	263.9	218.7	214.9
82.5°	165.9	226.2	252.6	230.0	218.7	218.7	199.8	199.8	184.8	135.7	124.4
85°	101.8	150.8	158.4	135.7	101.8	101.8	109.3	105.6	98.0	71.6	67.9
87.5°	52.8	71.6	64.1	52.8	33.9	33.9	30.2	22.6	22.6	18.9	18.9
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)