

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: P478940

Luminaire Tested: **IFLD-S-SA3E-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478940
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

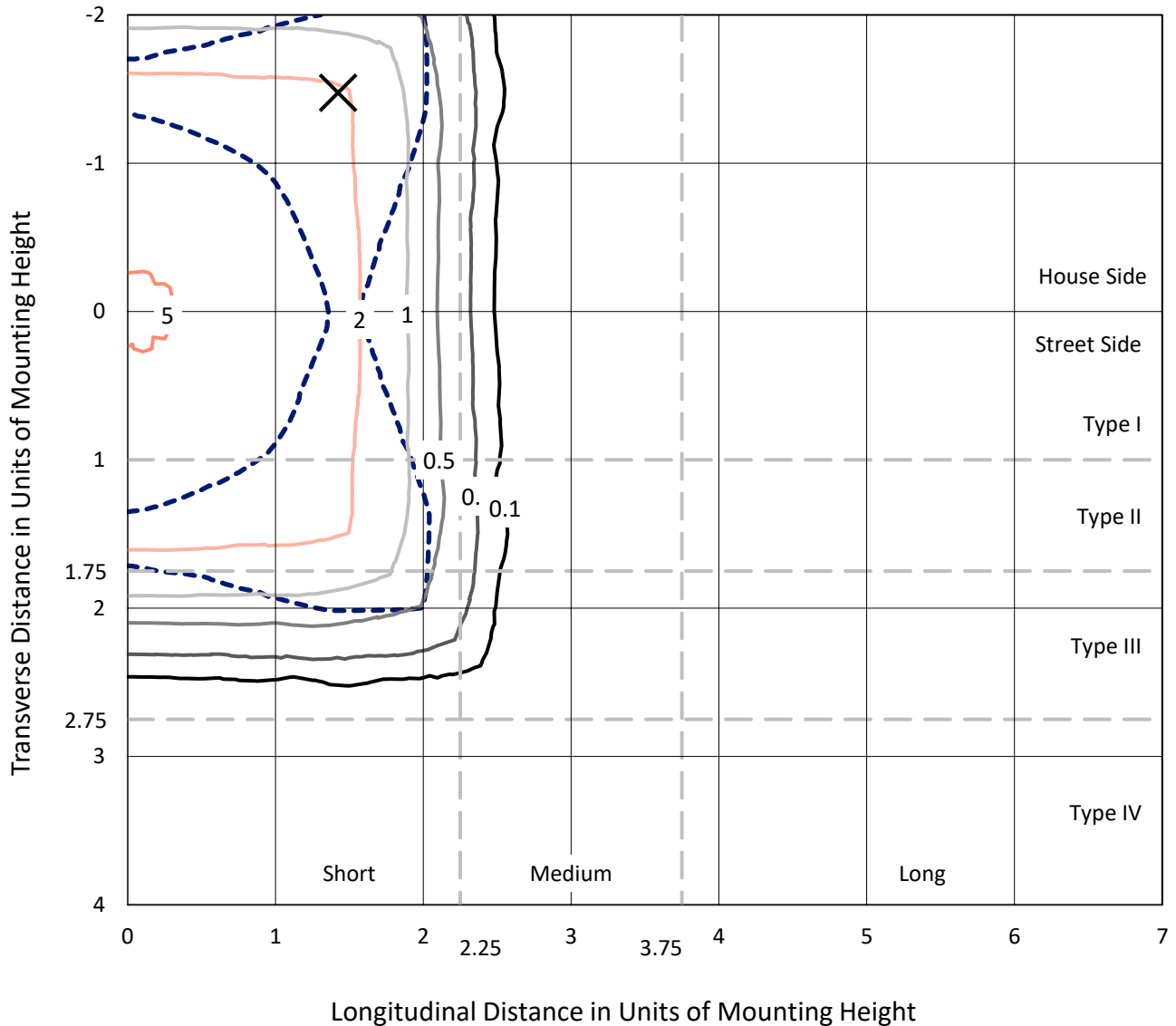
Lumens per Lamp: N/A
Luminaire Lumens: 26902.5 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1
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

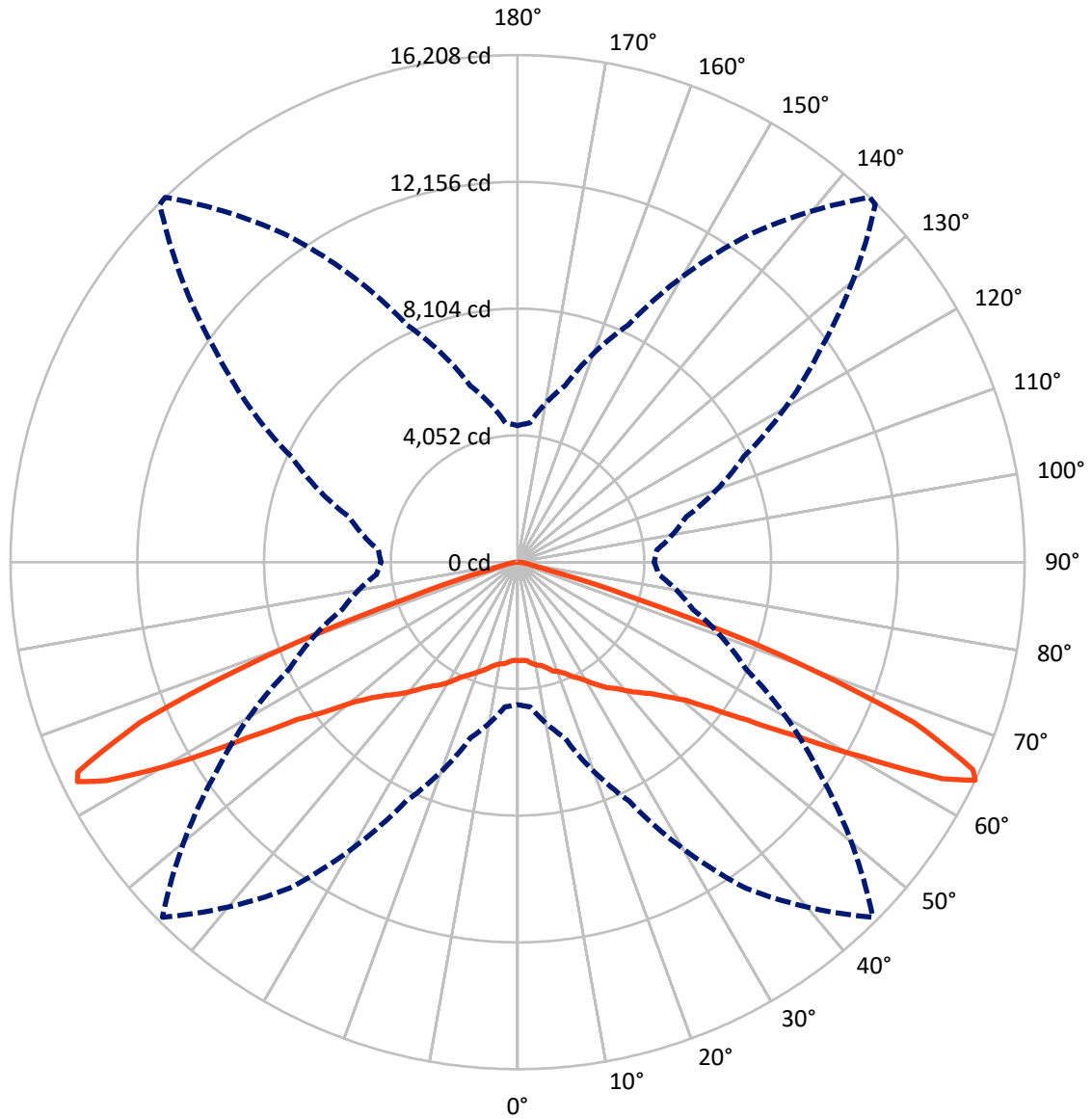
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	13464.1	0.0	13464.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13438.4	0.0	13438.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	26902.5	0.0	26902.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	1.2
10°-20°	997.5	3.7
20°-30°	1874.7	7.0
30°-40°	3091.6	11.5
40°-50°	4835.1	18.0
50°-60°	7812.3	29.0
60°-70°	7034.5	26.1
70°-80°	833.3	3.1
80°-90°	114.1	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°	26902.5	100.0
0°-180°	26902.5	100.0

Coefficient of Utilization



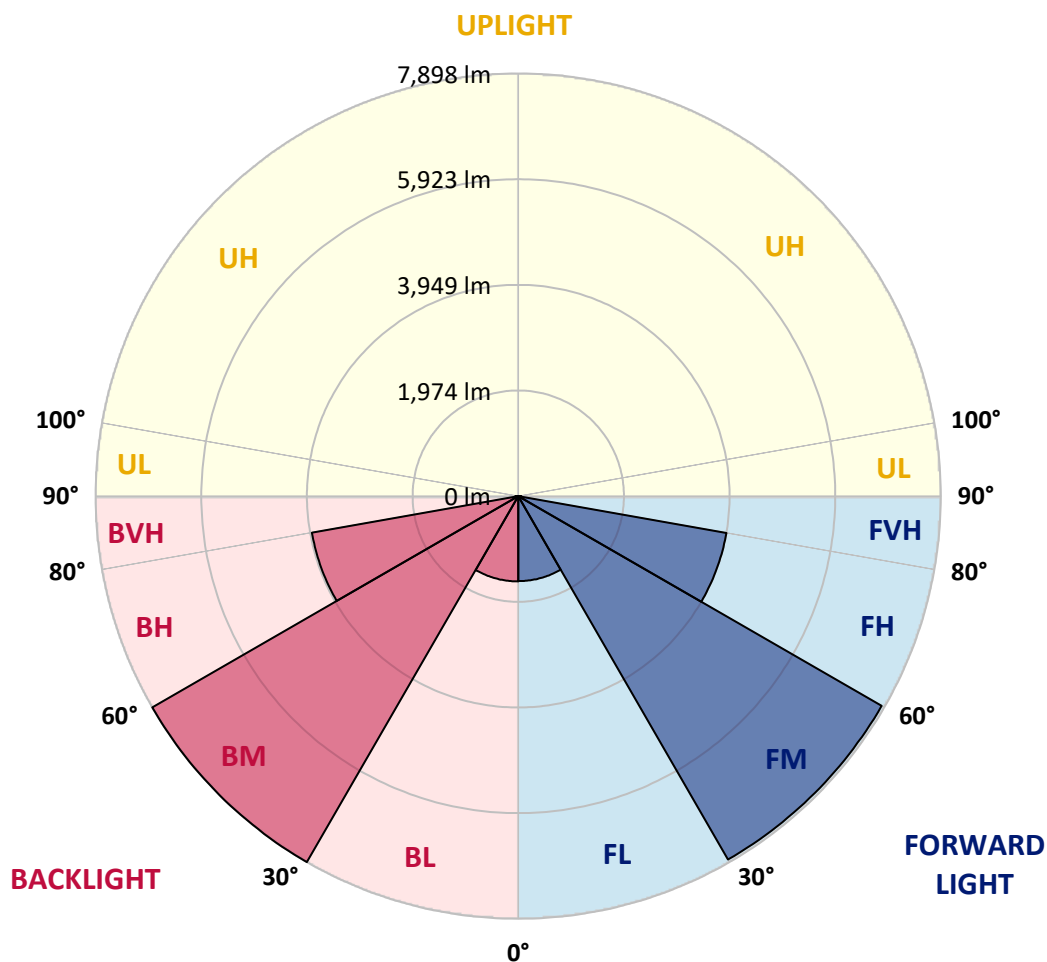
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1587.7	5.9			
FM (30°-60°)	7841.2	29.1			
FH (60°-80°)	3950.9	14.7			G2/5000
FVH (80°-90°)	58.5	0.2			G1/100
BL (0°-30°)	1593.9	5.9	B3/2500		
BM (30°-60°)	7897.8	29.4	B4/8500		
BH (60°-80°)	3916.8	14.6	B4/5000		G2/5000
BVH (80°-90°)	55.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7
2.5°	3112.7	3118.9	3174.4	3152.8	3171.3	3137.4	3162.1	3214.5	3152.8	3199.1	3214.5
5°	3146.6	3155.9	3155.9	3177.5	3189.8	3183.7	3199.1	3177.5	3236.1	3211.4	3248.4
7.5°	3270.0	3254.6	3229.9	3248.4	3251.5	3267.0	3282.4	3310.1	3300.9	3279.3	3316.3
10°	3291.6	3279.3	3316.3	3319.4	3304.0	3291.6	3307.1	3307.1	3334.8	3341.0	3341.0
12.5°	3328.7	3341.0	3337.9	3362.6	3365.7	3356.4	3381.1	3427.4	3415.0	3424.3	3402.7
15°	3470.6	3455.1	3452.1	3476.7	3516.8	3458.2	3501.4	3498.3	3486.0	3504.5	3455.1
17.5°	3594.0	3544.6	3566.2	3606.3	3590.9	3603.2	3658.7	3609.4	3621.7	3600.1	3584.7
20°	3701.9	3661.8	3664.9	3680.3	3680.3	3717.4	3739.0	3720.4	3708.1	3705.0	3711.2
22.5°	3822.2	3776.0	3779.1	3843.8	3865.4	3853.1	3837.7	3868.5	3874.7	3850.0	3877.8
25°	3911.7	3961.1	3976.5	4007.3	3961.1	3995.0	3982.7	4041.3	4078.3	4028.9	4062.9
27.5°	4146.2	4124.6	4164.7	4161.6	4198.6	4164.7	4186.3	4204.8	4220.2	4223.3	4207.9
30°	4355.9	4365.2	4325.1	4433.1	4346.7	4402.2	4439.2	4448.5	4467.0	4467.0	4420.7
32.5°	4578.1	4559.5	4624.3	4599.7	4584.2	4627.4	4587.3	4713.8	4639.8	4682.9	4630.5
35°	4827.9	4827.9	4852.6	4920.5	4827.9	4800.2	4874.2	4926.7	4926.7	4849.5	4868.0
37.5°	5108.7	5084.0	5114.8	5201.2	5130.3	5037.7	5173.5	5195.0	5179.6	5158.0	5121.0
40°	5306.1	5299.9	5361.6	5475.8	5374.0	5355.5	5380.1	5438.8	5457.3	5478.9	5429.5
42.5°	5639.3	5667.0	5846.0	5818.2	5734.9	5670.1	5664.0	5883.0	5830.5	5775.0	5747.3
45°	6132.9	6108.2	6200.7	6203.8	6095.9	5953.9	5984.8	6185.3	6274.8	6151.4	6197.7
47.5°	6524.7	6537.0	6601.8	6734.4	6484.6	6336.5	6450.6	6774.5	6746.8	6700.5	6743.7
50°	7049.1	7104.6	7308.2	7262.0	7039.8	6857.8	7107.7	7413.1	7447.1	7277.4	7246.5
52.5°	7774.1	7860.4	7971.5	8008.5	7795.7	7730.9	7746.3	8125.7	8042.5	7879.0	7774.1
55°	8409.6	8449.7	8653.3	8958.7	8943.3	8631.7	8810.6	8952.5	8613.2	8276.9	8304.7
57.5°	8681.0	8699.5	9267.2	9878.0	10242.0	10313.0	10109.4	9631.2	8822.9	8175.1	8135.0
60°	8005.4	8181.3	8866.1	10245.1	11907.9	12728.5	11374.2	9708.3	8332.4	7545.8	7487.2
62.5°	6398.2	6407.4	7425.5	9517.1	12944.4	15094.6	11858.5	8983.4	7024.4	6132.9	5898.4
64°	4556.5	4642.8	5812.0	8425.0	12728.5	16057.1	11799.9	8036.3	5790.4	4525.6	4362.1
65°	3270.0	3390.4	4519.4	7314.4	12222.6	15943.0	11624.1	7221.9	4682.9	3455.1	3288.6
67.5°	1203.1	1252.5	1773.8	3658.7	8776.7	13586.1	9211.6	3970.3	2057.7	1465.3	1317.3
70°	558.4	561.5	657.1	1209.3	3837.7	9085.2	4396.0	1490.0	774.3	613.9	570.7
72.5°	410.3	419.6	459.7	558.4	1129.1	3846.9	1443.8	610.8	453.5	401.0	391.8
75°	333.2	339.3	351.7	404.1	521.4	1030.4	586.1	422.6	360.9	323.9	311.6
77.5°	256.1	256.1	283.8	308.5	345.5	481.3	388.7	336.3	293.1	256.1	246.8
80°	185.1	188.2	222.1	240.6	234.5	317.7	280.7	277.6	240.6	200.5	185.1
82.5°	108.0	117.2	160.4	172.8	166.6	188.2	203.6	215.9	188.2	138.8	126.5
85°	61.7	64.8	92.5	95.6	95.6	89.5	117.2	129.6	126.5	86.4	77.1
87.5°	18.5	18.5	24.7	24.7	27.8	30.8	46.3	55.5	61.7	43.2	40.1
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°	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7	3149.7
2.5°	3199.1	3152.8	3155.9	3168.2	3128.1	3143.6	3189.8	3155.9	3146.6	3128.1	3118.9
5°	3183.7	3233.0	3214.5	3220.7	3211.4	3168.2	3162.1	3189.8	3205.3	3177.5	3233.0
7.5°	3291.6	3270.0	3245.4	3254.6	3233.0	3270.0	3294.7	3239.2	3267.0	3251.5	3220.7
10°	3353.3	3313.2	3331.7	3325.6	3310.1	3347.2	3322.5	3316.3	3291.6	3257.7	3307.1
12.5°	3374.9	3421.2	3452.1	3399.6	3408.9	3390.4	3374.9	3374.9	3347.2	3337.9	3347.2
15°	3470.6	3510.7	3498.3	3538.4	3486.0	3504.5	3523.0	3476.7	3501.4	3433.5	3486.0
17.5°	3646.4	3612.5	3655.7	3603.2	3621.7	3658.7	3600.1	3600.1	3618.6	3581.6	3535.3
20°	3757.5	3742.0	3726.6	3729.7	3698.8	3732.8	3714.3	3705.0	3677.3	3689.6	3714.3
22.5°	3862.4	3840.8	3846.9	3856.2	3877.8	3862.4	3853.1	3862.4	3794.5	3856.2	3769.8
25°	3991.9	4050.5	4032.0	4072.1	4010.4	4050.5	4047.4	3988.8	4025.9	4001.2	3982.7
27.5°	4207.9	4177.0	4204.8	4155.4	4198.6	4201.7	4164.7	4263.4	4220.2	4214.0	4201.7
30°	4485.5	4463.9	4445.4	4417.6	4451.6	4423.8	4454.7	4463.9	4423.8	4393.0	4334.3
32.5°	4642.8	4701.5	4723.1	4655.2	4658.3	4673.7	4645.9	4618.2	4642.8	4652.1	4642.8
35°	4865.0	4920.5	4932.8	4880.4	4852.6	4929.7	4874.2	4966.8	4886.6	4889.6	4806.3
37.5°	5124.1	5139.5	5244.4	5185.8	5161.1	5124.1	5225.9	5213.6	5232.1	5084.0	5158.0
40°	5417.2	5472.7	5531.3	5383.2	5380.1	5414.1	5407.9	5478.9	5444.9	5423.3	5370.9
42.5°	5738.0	5855.2	5864.5	5765.8	5704.1	5697.9	5728.7	5886.1	5889.2	5747.3	5685.6
45°	6163.7	6293.3	6259.4	6068.1	6000.2	5991.0	6142.1	6210.0	6268.6	6213.1	6160.6
47.5°	6694.3	6780.7	6756.0	6580.2	6361.2	6422.9	6570.9	6783.8	6722.1	6648.1	6586.4
50°	7262.0	7363.8	7311.3	7135.5	6925.7	6925.7	7107.7	7379.2	7360.7	7215.7	7160.2
52.5°	7891.3	8039.4	8159.7	7909.8	7734.0	7761.7	8048.6	8147.3	8101.1	7999.3	7953.0
55°	8360.2	8644.0	8890.8	8903.2	8912.4	8909.3	8983.4	9082.1	8752.0	8588.5	8421.9
57.5°	8246.1	8782.8	9628.1	10201.9	10371.6	10461.1	10436.4	9979.8	9199.3	8662.5	8718.1
60°	7431.6	8307.8	9671.3	11513.0	12747.0	12623.6	12173.2	10368.5	8952.5	8045.5	7931.4
62.5°	5929.3	6984.3	8946.3	11883.2	15282.8	15245.8	12888.9	9470.8	7459.4	6311.8	6240.8
64°	4467.0	5577.6	7980.8	11787.6	16171.3	16208.3	12706.9	8366.4	5836.7	4467.0	4359.0
65°	3418.1	4448.5	7033.7	11590.1	15980.0	16001.6	12201.0	7224.9	4436.2	3171.3	3054.1
67.5°	1360.5	1894.2	3816.1	8789.0	13721.8	13663.2	8705.7	3495.2	1696.7	1104.4	1082.8
70°	580.0	721.9	1338.9	4164.7	9187.0	9017.3	3748.2	1135.3	629.3	527.5	524.4
72.5°	398.0	441.1	573.8	1286.4	3819.2	3729.7	1067.4	527.5	428.8	394.9	394.9
75°	320.8	351.7	416.5	539.9	1011.9	974.8	502.8	388.7	342.4	317.7	314.7
77.5°	249.9	280.7	327.0	373.3	462.7	459.7	336.3	293.1	265.3	246.8	240.6
80°	197.4	228.3	259.1	265.3	302.3	296.2	228.3	231.4	215.9	178.9	175.8
82.5°	135.7	185.1	206.7	188.2	178.9	178.9	163.5	163.5	151.2	111.1	101.8
85°	83.3	123.4	129.6	111.1	83.3	83.3	89.5	86.4	80.2	58.6	55.5
87.5°	43.2	58.6	52.4	43.2	27.8	27.8	24.7	18.5	18.5	15.4	15.4
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)