

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: P479273

Luminaire Tested: **IFLD-L-SA7A-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479273
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

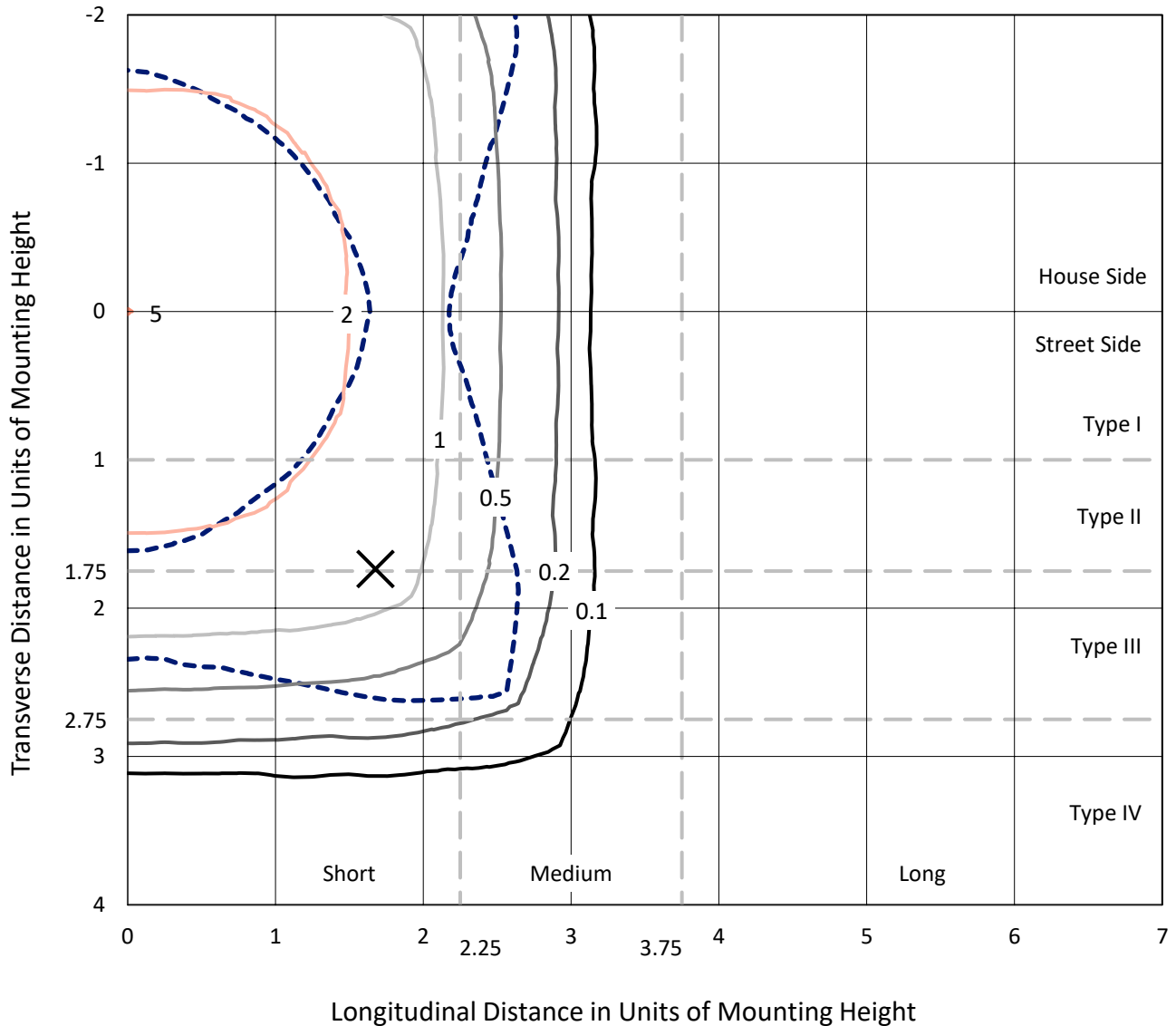
Lumens per Lamp: N/A
Luminaire Lumens: 28770.4 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 217.6
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

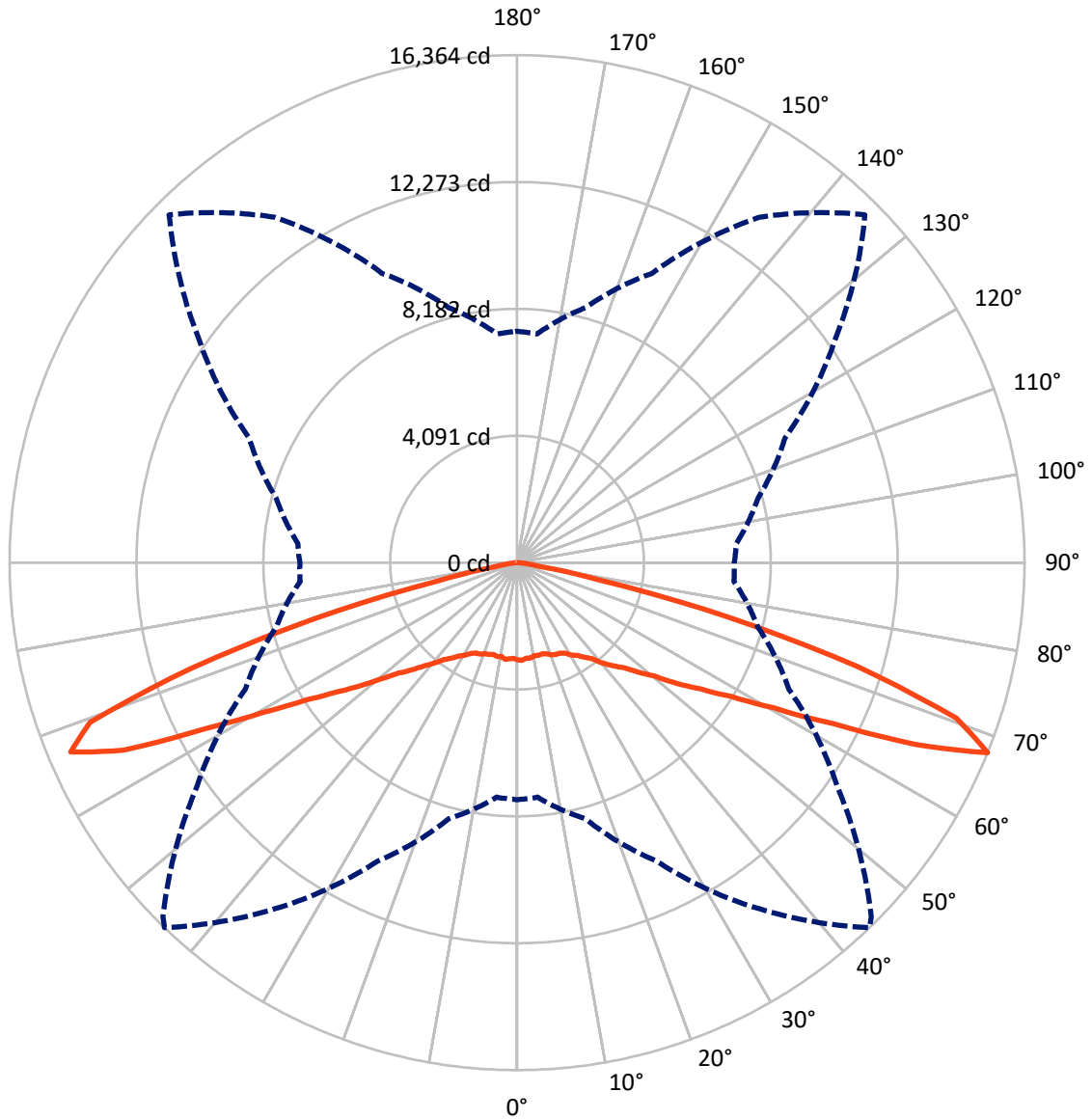
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14348.4	0.0	14348.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	14422.0	0.0	14422.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	28770.4	0.0	28770.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.4	1.0
10°-20°	868.8	3.0
20°-30°	1477.5	5.1
30°-40°	2342.6	8.1
40°-50°	3819.8	13.3
50°-60°	6523.7	22.7
60°-70°	9922.5	34.5
70°-80°	3344.5	11.6
80°-90°	173.6	0.6
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°	28770.4	100.0
0°-180°	28770.4	100.0

Coefficient of Utilization



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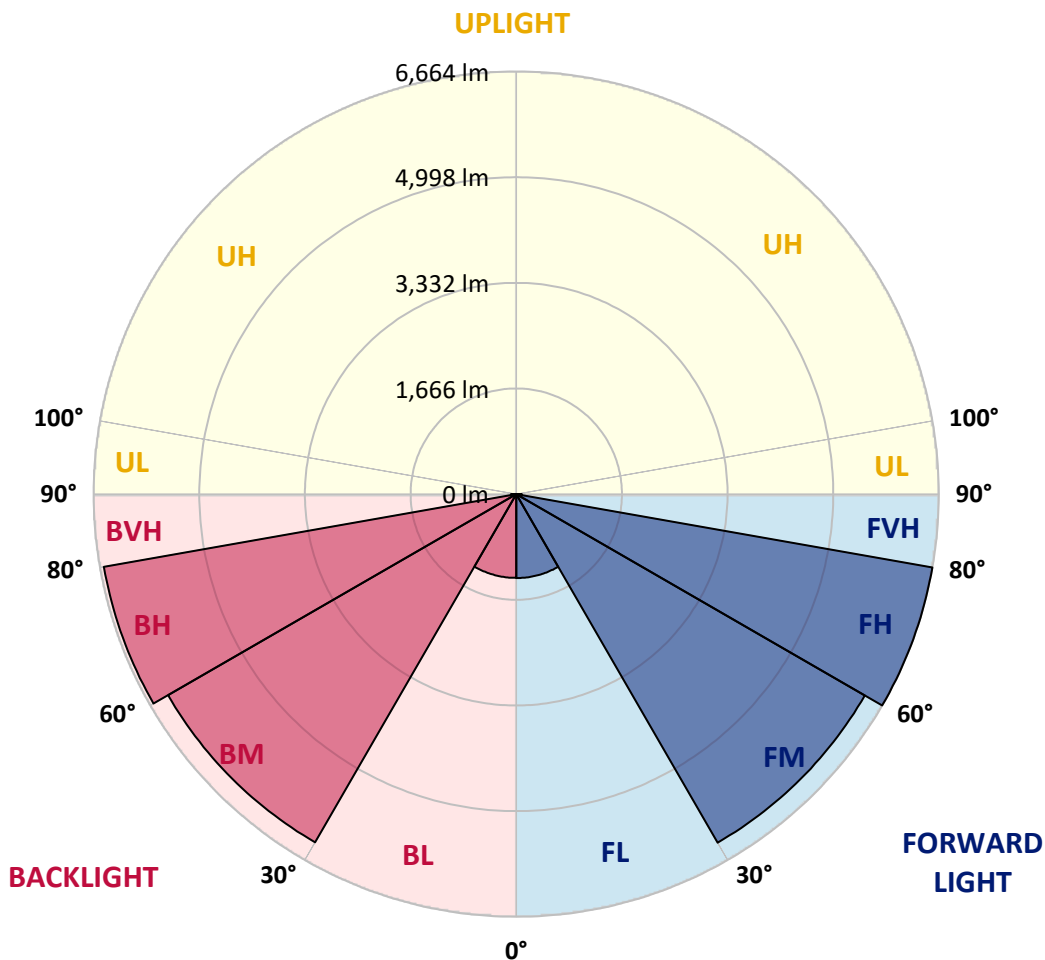
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.2	4.6			
FM (30°-60°)	6346.5	22.1			
FH (60°-80°)	6663.5	23.2			G3/7500
FVH (80°-90°)	88.8	0.3			G1/100
BL (0°-30°)	1320.5	4.6	B3/2500		
BM (30°-60°)	6339.6	22.0	B4/8500		
BH (60°-80°)	6603.4	23.0	B5		G3/7500
BVH (80°-90°)	84.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7
2.5°	3070.4	3106.6	3132.8	3129.5	3139.4	3149.2	3136.1	3155.8	3142.7	3165.7	3178.8
5°	3129.5	3119.7	3123.0	3103.3	3149.2	3096.7	3096.7	3123.0	3155.8	3116.4	3139.4
7.5°	3093.4	3086.8	3070.4	3100.0	3109.8	3109.8	3136.1	3086.8	3142.7	3155.8	3159.1
10°	3054.0	3017.9	3067.1	3096.7	3103.3	3050.7	3073.7	3086.8	3070.4	3086.8	3096.7
12.5°	3021.2	3040.9	3040.9	3040.9	3031.0	3067.1	3090.1	3086.8	3054.0	3083.6	3031.0
15°	3017.9	3008.0	3037.6	3063.9	3047.4	3054.0	3063.9	3093.4	3031.0	3044.2	3044.2
17.5°	3014.6	3027.7	3037.6	3034.3	3090.1	3090.1	3080.3	3060.6	3109.8	3083.6	3047.4
20°	3027.7	3017.9	3044.2	3054.0	3093.4	3172.2	3142.7	3126.3	3100.0	3067.1	3067.1
22.5°	3044.2	3037.6	3073.7	3116.4	3191.9	3211.6	3208.4	3188.6	3142.7	3103.3	3096.7
25°	3103.3	3044.2	3083.6	3165.7	3191.9	3231.3	3257.6	3231.3	3168.9	3178.8	3119.7
27.5°	3191.9	3182.1	3234.6	3290.4	3267.5	3303.6	3280.6	3300.3	3303.6	3254.3	3195.2
30°	3297.0	3267.5	3300.3	3408.7	3418.5	3457.9	3418.5	3366.0	3382.4	3339.7	3310.2
32.5°	3448.1	3438.2	3500.6	3572.9	3586.0	3566.3	3546.6	3576.1	3507.2	3474.3	3421.8
35°	3546.6	3589.3	3664.8	3720.6	3763.3	3743.6	3753.5	3723.9	3740.3	3671.4	3648.4
37.5°	3838.9	3822.4	3838.9	3934.1	3943.9	3934.1	3943.9	3976.8	3953.8	3894.7	3835.6
40°	4114.7	4088.4	4127.8	4236.2	4229.6	4262.5	4196.8	4232.9	4232.9	4121.3	4098.3
42.5°	4321.6	4410.3	4456.2	4544.9	4577.7	4548.2	4535.0	4541.6	4613.9	4482.5	4433.2
45°	4748.5	4745.2	4883.1	4932.4	4840.4	4833.9	4807.6	4886.4	4935.7	4860.1	4840.4
47.5°	5211.5	5234.5	5313.3	5333.0	5388.8	5287.0	5287.0	5296.9	5470.9	5293.6	5201.7
50°	5628.6	5658.1	5815.8	5970.1	5865.0	5756.6	5799.3	5851.9	5947.1	5779.6	5700.8
52.5°	6134.3	6295.2	6400.3	6482.4	6557.9	6482.4	6383.9	6443.0	6630.2	6406.8	6308.3
55°	6863.3	6991.4	7089.9	7241.0	7303.3	7201.5	7191.7	7185.1	7290.2	7053.8	6919.1
57.5°	7677.7	7625.2	7782.8	8016.0	8242.5	8144.0	8114.5	8121.0	8147.3	7812.3	7710.5
60°	8689.1	8748.3	8935.4	9139.0	9378.8	9516.7	9322.9	9211.3	9234.3	8777.8	8620.2
62.5°	9267.1	9398.5	9822.1	10521.6	11004.3	11434.5	11464.0	10738.3	10252.3	9365.6	8695.7
65°	8988.0	8968.3	9766.3	11060.1	12889.2	14140.4	13953.2	12193.0	10495.3	9086.5	8186.7
67.5°	7644.9	7592.3	8557.8	10610.2	13631.4	16363.6	16150.1	12603.5	9674.3	8038.9	7020.9
70°	4925.8	4912.7	5960.2	8088.2	12170.1	15023.7	15102.6	11447.6	7874.7	5888.0	4879.8
72.5°	1789.7	1898.1	2505.6	4347.9	8265.5	11493.6	11542.8	8475.7	4528.5	2722.3	2006.5
75°	660.1	679.8	791.4	1412.1	3766.6	7057.1	7241.0	4111.4	1609.1	886.6	722.5
77.5°	380.9	384.2	423.6	525.4	1116.5	2755.2	2866.8	1247.9	623.9	472.9	436.8
80°	259.4	256.1	298.8	341.5	446.6	781.6	830.8	522.1	394.1	328.4	275.8
82.5°	151.1	160.9	220.0	243.0	272.6	344.8	351.4	325.1	295.5	243.0	180.6
85°	91.9	75.5	121.5	134.6	157.6	154.3	154.3	177.3	190.5	170.8	101.8
87.5°	23.0	23.0	29.6	32.8	42.7	32.8	36.1	69.0	91.9	85.4	52.5
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°	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7	3142.7
2.5°	3149.2	3139.4	3146.0	3182.1	3159.1	3090.1	3106.6	3142.7	3113.1	3096.7	3093.4
5°	3136.1	3155.8	3132.8	3139.4	3162.4	3106.6	3116.4	3162.4	3142.7	3149.2	3113.1
7.5°	3139.4	3149.2	3129.5	3100.0	3100.0	3146.0	3119.7	3126.3	3096.7	3146.0	3080.3
10°	3119.7	3093.4	3070.4	3086.8	3080.3	3067.1	3057.3	3077.0	3047.4	3090.1	3044.2
12.5°	3060.6	3067.1	3060.6	3054.0	3067.1	3100.0	3047.4	3054.0	3008.0	3014.6	3037.6
15°	3037.6	3057.3	3050.7	3086.8	3103.3	3054.0	3093.4	3054.0	3017.9	2998.2	3034.3
17.5°	3047.4	3077.0	3067.1	3093.4	3063.9	3100.0	3106.6	3090.1	3047.4	3031.0	3047.4
20°	3057.3	3047.4	3060.6	3106.6	3149.2	3113.1	3113.1	3103.3	3063.9	3040.9	3040.9
22.5°	3080.3	3063.9	3083.6	3119.7	3132.8	3188.6	3139.4	3116.4	3050.7	2991.6	3047.4
25°	3126.3	3136.1	3149.2	3136.1	3208.4	3201.8	3195.2	3178.8	3077.0	3080.3	3070.4
27.5°	3214.9	3159.1	3175.5	3254.3	3264.2	3290.4	3257.6	3287.2	3178.8	3182.1	3116.4
30°	3323.3	3264.2	3316.7	3385.7	3382.4	3431.7	3415.2	3421.8	3346.3	3303.6	3214.9
32.5°	3441.5	3434.9	3467.8	3510.5	3526.9	3553.2	3549.9	3549.9	3503.9	3392.2	3408.7
35°	3572.9	3618.8	3658.2	3704.2	3710.8	3743.6	3697.6	3704.2	3658.2	3576.1	3602.4
37.5°	3832.3	3829.0	3871.7	3927.5	3934.1	3907.8	3943.9	3927.5	3865.1	3809.3	3766.6
40°	4134.4	4068.7	4108.1	4239.5	4249.3	4203.4	4200.1	4196.8	4150.8	4029.3	4003.0
42.5°	4397.1	4482.5	4475.9	4518.6	4489.1	4466.1	4548.2	4502.2	4466.1	4338.0	4315.0
45°	4735.4	4761.6	4847.0	4984.9	4843.7	4843.7	4899.5	4863.4	4843.7	4748.5	4659.8
47.5°	5155.7	5178.7	5349.4	5359.3	5267.3	5204.9	5379.0	5385.6	5303.5	5231.2	5122.9
50°	5648.3	5658.1	5812.5	5970.1	5868.3	5750.1	5927.4	5996.4	5812.5	5714.0	5579.3
52.5°	6190.1	6160.6	6288.6	6584.2	6485.7	6449.5	6640.0	6656.4	6406.8	6252.5	6288.6
55°	6814.1	6774.6	7122.7	7323.1	7260.7	7195.0	7280.4	7319.8	7119.5	6866.6	6955.3
57.5°	7621.9	7641.6	7815.6	8012.7	8114.5	8130.9	8170.3	8130.9	7927.3	7671.1	7589.0
60°	8429.7	8488.8	8827.1	9198.1	9231.0	9520.0	9467.4	9270.4	8981.4	8616.9	8633.3
62.5°	8728.6	8679.3	9224.4	10130.8	10902.5	11431.2	11198.0	10498.6	9828.7	9165.3	9214.6
65°	8127.6	8249.1	8991.3	10409.9	12084.7	14176.5	12935.2	11001.0	9648.0	8790.9	8695.7
67.5°	7004.5	7096.5	8038.9	9536.4	12508.3	15864.4	13592.0	10291.7	8508.5	7398.6	7457.7
70°	4879.8	4925.8	5848.6	7812.3	11342.5	14971.2	12262.0	7904.3	5874.9	4682.8	4748.5
72.5°	1963.8	2075.4	2682.9	4705.8	8373.9	11375.4	8255.7	4147.5	2436.6	1812.7	1645.2
75°	725.7	729.0	857.1	1619.0	3976.8	7149.0	3723.9	1333.3	778.3	637.1	607.5
77.5°	420.3	417.1	446.6	584.5	1152.6	2791.3	1057.4	522.1	423.6	380.9	364.5
80°	262.7	259.4	305.4	387.5	505.7	765.1	446.6	325.1	285.7	246.3	246.3
82.5°	167.5	170.8	239.7	285.7	308.7	338.2	259.4	229.9	213.5	141.2	137.9
85°	108.4	98.5	167.5	190.5	170.8	151.1	144.5	121.5	111.7	69.0	75.5
87.5°	49.3	52.5	85.4	95.2	62.4	36.1	36.1	26.3	26.3	16.4	16.4
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)