

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: P479234

Luminaire Tested: **IFLD-L-SA7A-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479234
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

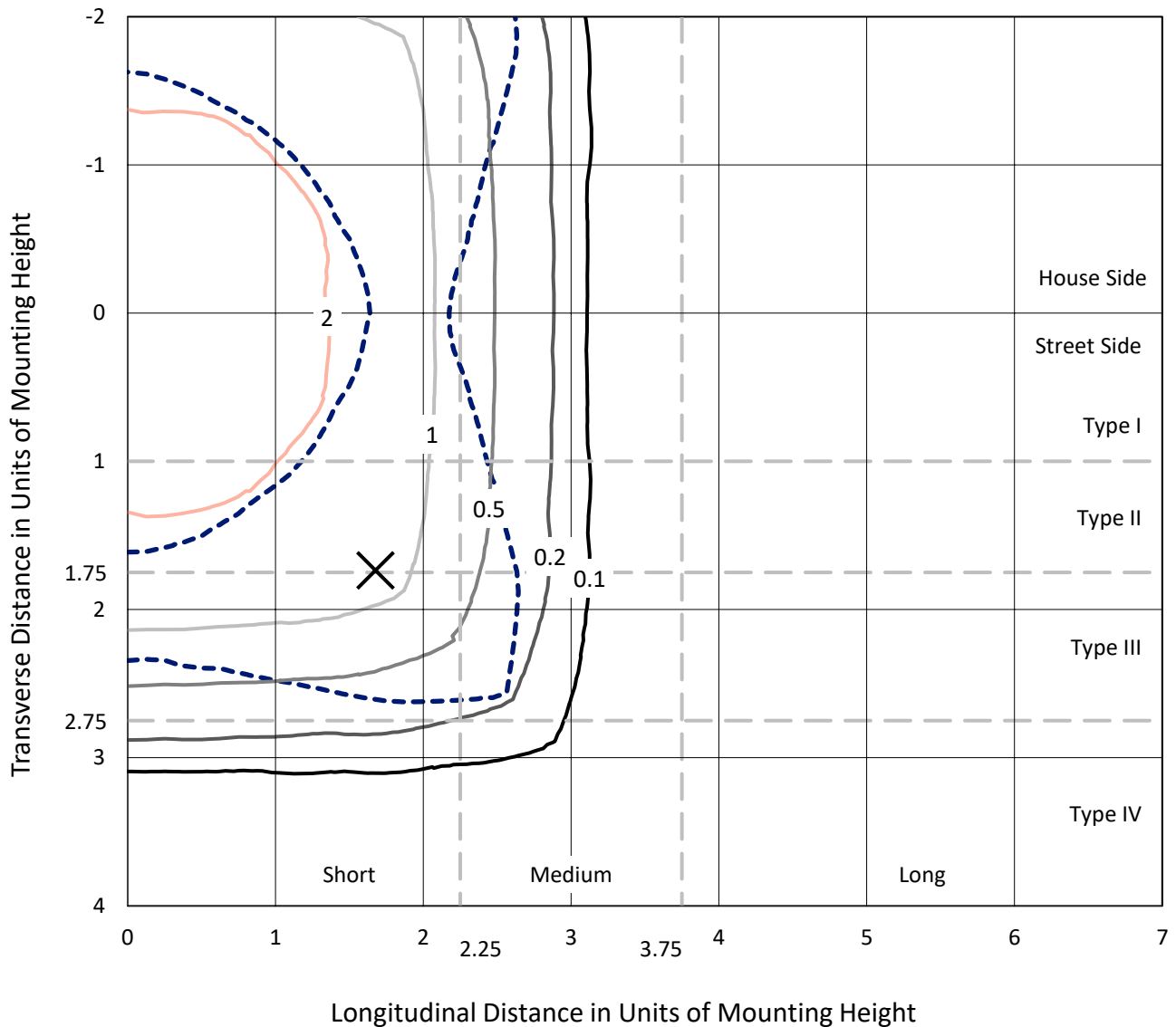
Lumens per Lamp: N/A
Luminaire Lumens: 26422.9 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

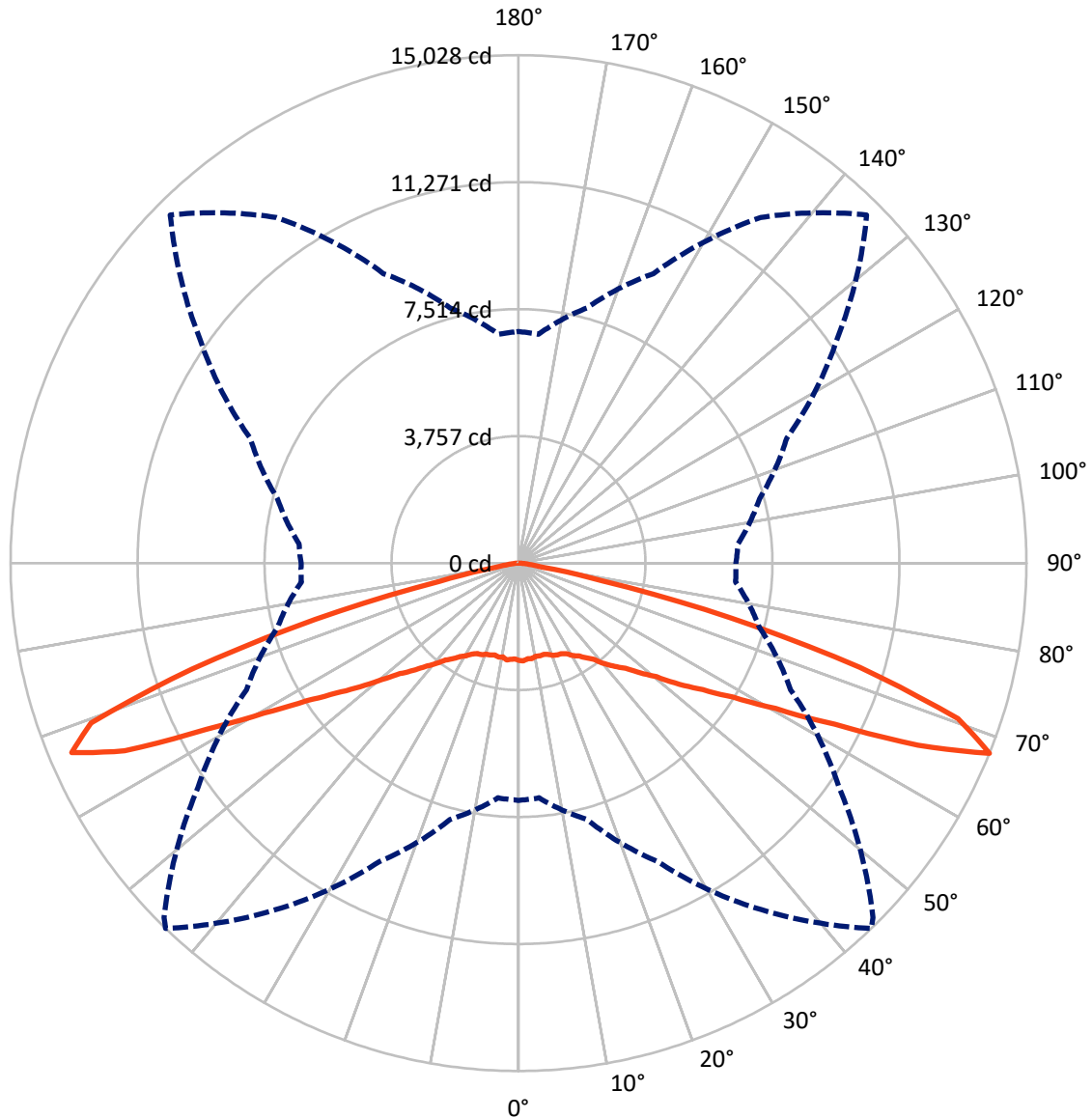
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	13177.6	0.0	13177.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13245.3	0.0	13245.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	26422.9	0.0	26422.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.1	1.0
10°-20°	797.9	3.0
20°-30°	1356.9	5.1
30°-40°	2151.4	8.1
40°-50°	3508.1	13.3
50°-60°	5991.4	22.7
60°-70°	9112.9	34.5
70°-80°	3071.6	11.6
80°-90°	159.5	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°	26422.9	100.0
0°-180°	26422.9	100.0

Coefficient of Utilization



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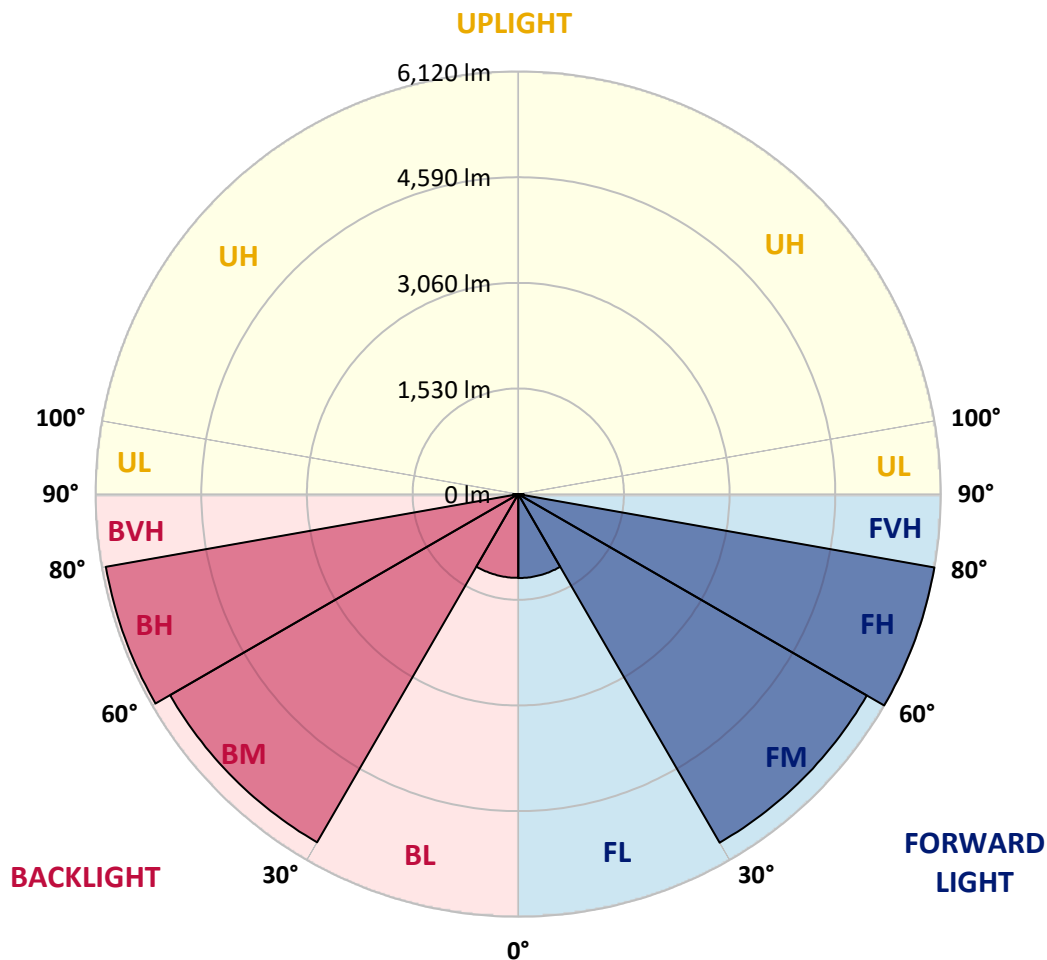
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.2	4.6			
FM (30°-60°)	5828.6	22.1			
FH (60°-80°)	6119.8	23.2			G3/7500
FVH (80°-90°)	81.6	0.3			G1/100
BL (0°-30°)	1212.7	4.6	B3/2500		
BM (30°-60°)	5822.3	22.0	B4/8500		
BH (60°-80°)	6064.6	23.0	B5		G3/7500
BVH (80°-90°)	77.9	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°	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2
2.5°	2819.9	2853.1	2877.2	2874.2	2883.2	2892.3	2880.2	2898.3	2886.2	2907.4	2919.4
5°	2874.2	2865.1	2868.2	2850.1	2892.3	2844.0	2844.0	2868.2	2898.3	2862.1	2883.2
7.5°	2841.0	2835.0	2819.9	2847.0	2856.1	2856.1	2880.2	2835.0	2886.2	2898.3	2901.3
10°	2804.8	2771.6	2816.9	2844.0	2850.1	2801.8	2822.9	2835.0	2819.9	2835.0	2844.0
12.5°	2774.7	2792.8	2792.8	2792.8	2783.7	2816.9	2838.0	2835.0	2804.8	2832.0	2783.7
15°	2771.6	2762.6	2789.7	2813.9	2798.8	2804.8	2813.9	2841.0	2783.7	2795.8	2795.8
17.5°	2768.6	2780.7	2789.7	2786.7	2838.0	2838.0	2828.9	2810.8	2856.1	2832.0	2798.8
20°	2780.7	2771.6	2795.8	2804.8	2841.0	2913.4	2886.2	2871.2	2847.0	2816.9	2816.9
22.5°	2795.8	2789.7	2822.9	2862.1	2931.5	2949.6	2946.6	2928.5	2886.2	2850.1	2844.0
25°	2850.1	2795.8	2832.0	2907.4	2931.5	2967.7	2991.8	2967.7	2910.4	2919.4	2865.1
27.5°	2931.5	2922.4	2970.7	3022.0	3000.9	3034.0	3012.9	3031.0	3034.0	2988.8	2934.5
30°	3028.0	3000.9	3031.0	3130.5	3139.6	3175.8	3139.6	3091.3	3106.4	3067.2	3040.1
32.5°	3166.7	3157.7	3215.0	3281.3	3293.4	3275.3	3257.2	3284.4	3221.0	3190.9	3142.6
35°	3257.2	3296.4	3365.8	3417.1	3456.3	3438.2	3447.2	3420.1	3435.1	3371.8	3350.7
37.5°	3525.6	3510.5	3525.6	3613.1	3622.1	3613.1	3622.1	3652.3	3631.2	3576.9	3522.6
40°	3779.0	3754.8	3791.0	3890.6	3884.5	3914.7	3854.4	3887.5	3887.5	3785.0	3763.9
42.5°	3969.0	4050.4	4092.6	4174.1	4204.2	4177.1	4165.0	4171.0	4237.4	4116.7	4071.5
45°	4361.0	4358.0	4484.7	4529.9	4445.5	4439.5	4415.3	4487.7	4532.9	4463.6	4445.5
47.5°	4786.3	4807.4	4879.8	4897.9	4949.1	4855.7	4855.7	4864.7	5024.5	4861.7	4777.2
50°	5169.3	5196.5	5341.2	5483.0	5386.5	5286.9	5326.1	5374.4	5461.9	5308.0	5235.7
52.5°	5633.8	5781.5	5878.1	5953.5	6022.8	5953.5	5863.0	5917.3	6089.2	5884.1	5793.6
55°	6303.3	6420.9	6511.4	6650.1	6707.4	6613.9	6604.9	6598.9	6695.4	6478.2	6354.6
57.5°	7051.3	7003.0	7147.8	7361.9	7570.0	7479.5	7452.4	7458.4	7482.5	7174.9	7081.4
60°	7980.2	8034.4	8206.4	8393.3	8613.5	8740.2	8562.2	8459.7	8480.8	8061.6	7916.8
62.5°	8511.0	8631.6	9020.7	9663.0	10106.4	10501.5	10528.6	9862.1	9415.7	8601.4	7986.2
65°	8254.6	8236.5	8969.4	10157.7	11837.5	12986.6	12814.7	11198.2	9638.9	8345.1	7518.7
67.5°	7021.1	6972.8	7859.5	9744.5	12519.1	15028.4	14832.4	11575.2	8884.9	7383.0	6448.1
70°	4523.9	4511.8	5473.9	7428.2	11177.0	13797.9	13870.3	10513.5	7232.2	5407.6	4481.7
72.5°	1643.7	1743.2	2301.2	3993.1	7591.1	10555.8	10601.0	7784.1	4159.0	2500.2	1842.7
75°	606.2	624.3	726.8	1296.9	3459.3	6481.2	6650.1	3775.9	1477.8	814.3	663.5
77.5°	349.8	352.9	389.1	482.5	1025.4	2530.4	2632.9	1146.1	573.0	434.3	401.1
80°	238.3	235.2	274.4	313.7	410.2	717.8	763.0	479.5	361.9	301.6	253.3
82.5°	138.7	147.8	202.1	223.2	250.3	316.7	322.7	298.6	271.4	223.2	165.9
85°	84.4	69.4	111.6	123.7	144.8	141.7	141.7	162.9	174.9	156.8	93.5
87.5°	21.1	21.1	27.1	30.2	39.2	30.2	33.2	63.3	84.4	78.4	48.3
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°	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2	2886.2
2.5°	2892.3	2883.2	2889.3	2922.4	2901.3	2838.0	2853.1	2886.2	2859.1	2844.0	2841.0
5°	2880.2	2898.3	2877.2	2883.2	2904.3	2853.1	2862.1	2904.3	2886.2	2892.3	2859.1
7.5°	2883.2	2892.3	2874.2	2847.0	2847.0	2889.3	2865.1	2871.2	2844.0	2889.3	2828.9
10°	2865.1	2841.0	2819.9	2835.0	2828.9	2816.9	2807.8	2825.9	2798.8	2838.0	2795.8
12.5°	2810.8	2816.9	2810.8	2804.8	2816.9	2847.0	2798.8	2804.8	2762.6	2768.6	2789.7
15°	2789.7	2807.8	2801.8	2835.0	2850.1	2804.8	2841.0	2804.8	2771.6	2753.5	2786.7
17.5°	2798.8	2825.9	2816.9	2841.0	2813.9	2847.0	2853.1	2838.0	2798.8	2783.7	2798.8
20°	2807.8	2798.8	2810.8	2853.1	2892.3	2859.1	2859.1	2850.1	2813.9	2792.8	2792.8
22.5°	2828.9	2813.9	2832.0	2865.1	2877.2	2928.5	2883.2	2862.1	2801.8	2747.5	2798.8
25°	2871.2	2880.2	2892.3	2880.2	2946.6	2940.5	2934.5	2919.4	2825.9	2828.9	2819.9
27.5°	2952.6	2901.3	2916.4	2988.8	2997.8	3022.0	2991.8	3018.9	2919.4	2922.4	2862.1
30°	3052.1	2997.8	3046.1	3109.4	3106.4	3151.6	3136.6	3142.6	3073.2	3034.0	2952.6
32.5°	3160.7	3154.7	3184.8	3224.0	3239.1	3263.2	3260.2	3260.2	3218.0	3115.5	3130.5
35°	3281.3	3323.6	3359.7	3402.0	3408.0	3438.2	3395.9	3402.0	3359.7	3284.4	3308.5
37.5°	3519.6	3516.6	3555.8	3607.1	3613.1	3589.0	3622.1	3607.1	3549.8	3498.5	3459.3
40°	3797.1	3736.7	3772.9	3893.6	3902.6	3860.4	3857.4	3854.4	3812.1	3700.5	3676.4
42.5°	4038.3	4116.7	4110.7	4149.9	4122.8	4101.7	4177.1	4134.8	4101.7	3984.0	3962.9
45°	4349.0	4373.1	4451.5	4578.2	4448.5	4448.5	4499.8	4466.6	4448.5	4361.0	4279.6
47.5°	4735.0	4756.1	4913.0	4922.0	4837.6	4780.3	4940.1	4946.1	4870.7	4804.4	4704.9
50°	5187.4	5196.5	5338.2	5483.0	5389.5	5280.9	5443.8	5507.1	5338.2	5247.7	5124.1
52.5°	5685.0	5657.9	5775.5	6046.9	5956.5	5923.3	6098.2	6113.3	5884.1	5742.3	5775.5
55°	6258.1	6221.9	6541.6	6725.5	6668.2	6607.9	6686.3	6722.5	6538.5	6306.3	6387.7
57.5°	7000.0	7018.1	7177.9	7358.9	7452.4	7467.5	7503.6	7467.5	7280.5	7045.2	6969.8
60°	7741.9	7796.2	8106.8	8447.6	8477.8	8743.2	8694.9	8514.0	8248.6	7913.8	7928.9
62.5°	8016.3	7971.1	8471.8	9304.2	10012.9	10498.5	10284.3	9641.9	9026.7	8417.5	8462.7
65°	7464.4	7576.0	8257.6	9560.5	11098.6	13019.8	11879.8	10103.4	8860.8	8073.7	7986.2
67.5°	6433.0	6517.4	7383.0	8758.3	11487.7	14570.0	12482.9	9451.9	7814.3	6794.9	6849.2
70°	4481.7	4523.9	5371.4	7174.9	10417.0	13749.6	11261.5	7259.4	5395.5	4300.7	4361.0
72.5°	1803.5	1906.1	2464.0	4321.8	7690.6	10447.2	7582.1	3809.1	2237.8	1664.8	1511.0
75°	666.5	669.5	787.2	1486.9	3652.3	6565.7	3420.1	1224.5	714.8	585.1	557.9
77.5°	386.0	383.0	410.2	536.8	1058.6	2563.5	971.1	479.5	389.1	349.8	334.8
80°	241.3	238.3	280.5	355.9	464.5	702.7	410.2	298.6	262.4	226.2	226.2
82.5°	153.8	156.8	220.2	262.4	283.5	310.6	238.3	211.1	196.0	129.7	126.7
85°	99.5	90.5	153.8	174.9	156.8	138.7	132.7	111.6	102.5	63.3	69.4
87.5°	45.2	48.3	78.4	87.5	57.3	33.2	33.2	24.1	24.1	15.1	15.1
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)