

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: P478823

Luminaire Tested: **IFLD-S-SA3E-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478823
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

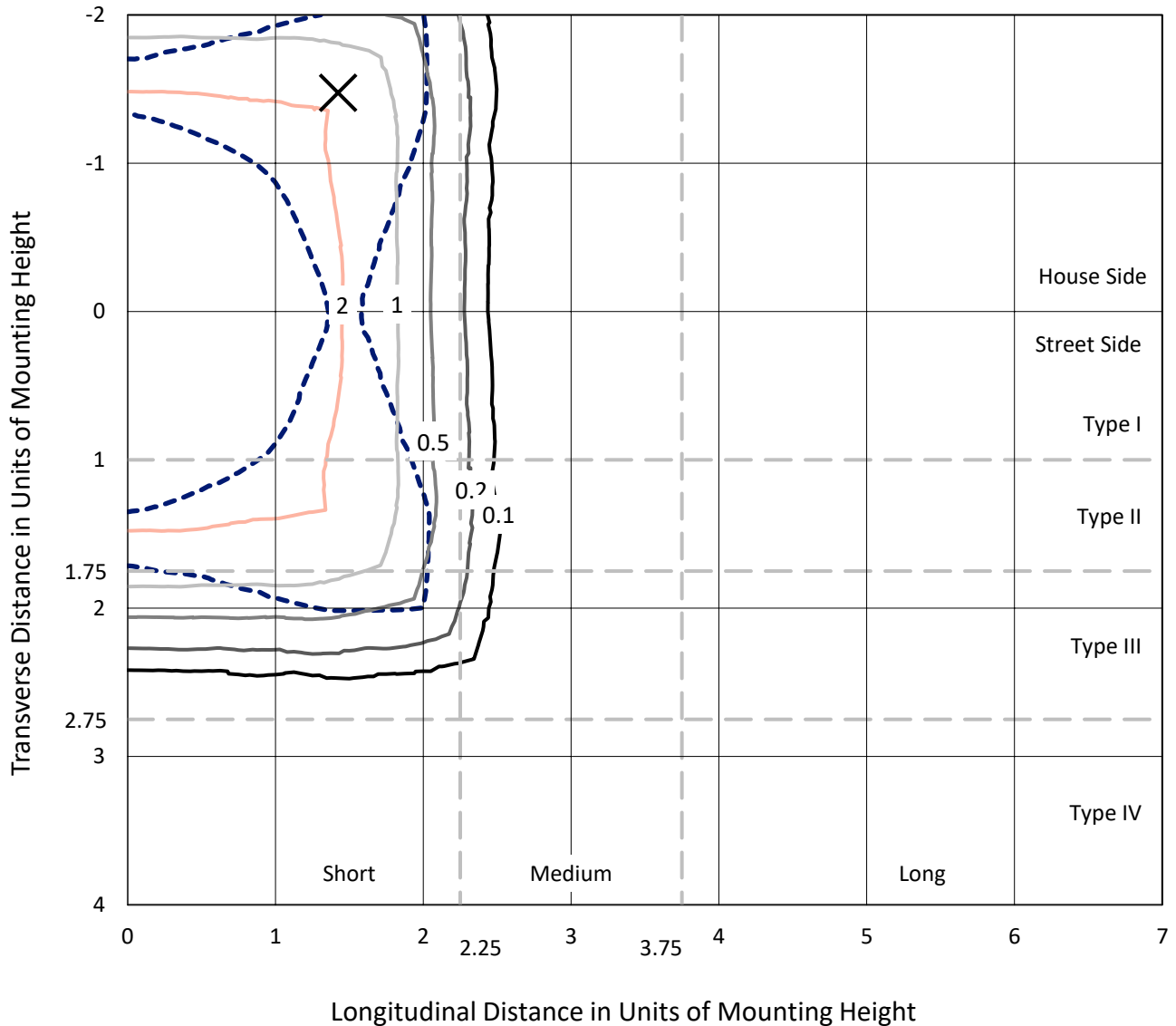
Lumens per Lamp: N/A
Luminaire Lumens: 22498.6 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

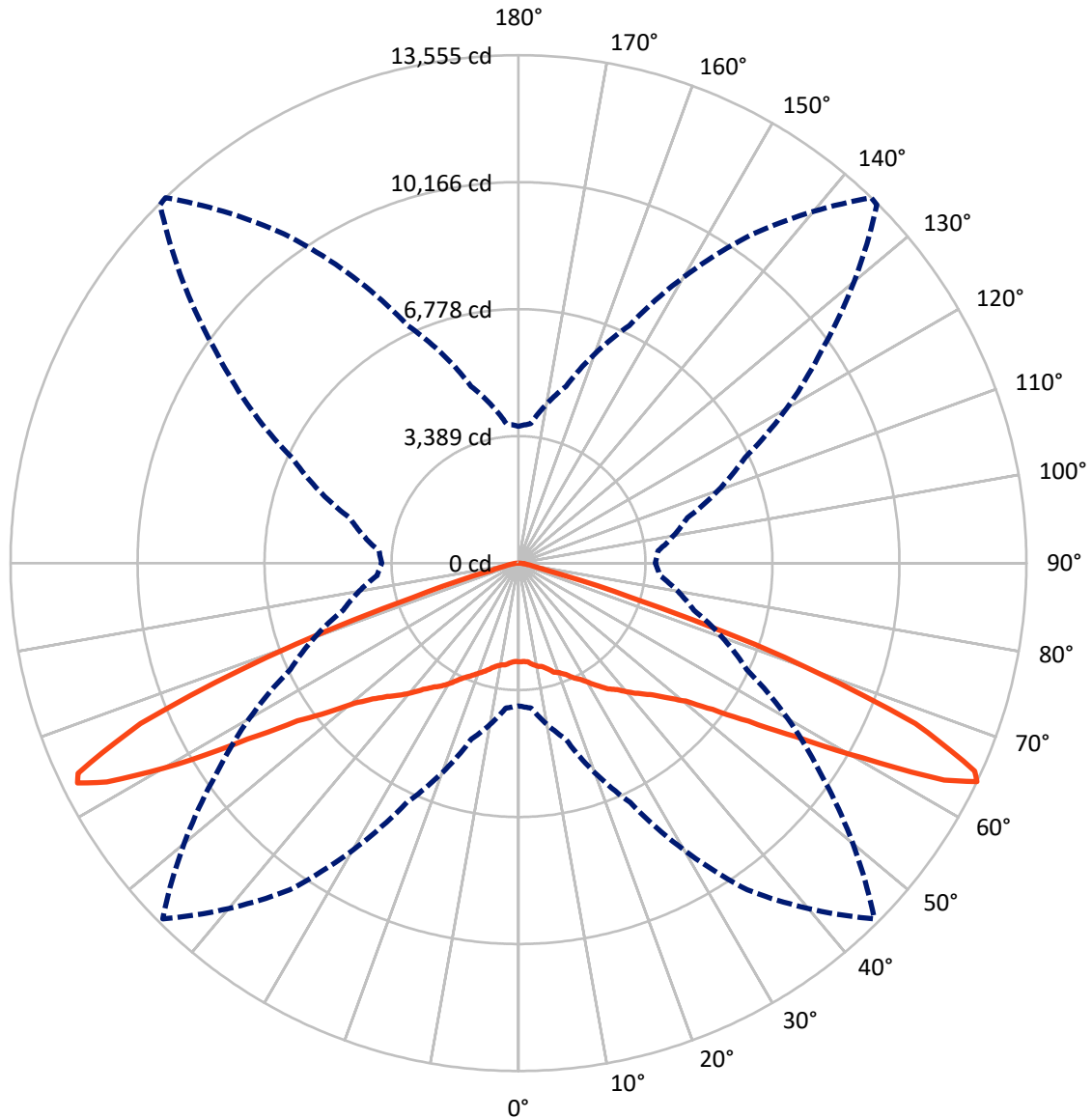
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	11260.0	0.0	11260.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11238.6	0.0	11238.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	22498.6	0.0	22498.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	1.2
10°-20°	834.2	3.7
20°-30°	1567.8	7.0
30°-40°	2585.5	11.5
40°-50°	4043.6	18.0
50°-60°	6533.5	29.0
60°-70°	5882.9	26.1
70°-80°	696.9	3.1
80°-90°	95.4	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°	22498.6	100.0
0°-180°	22498.6	100.0

Coefficient of Utilization



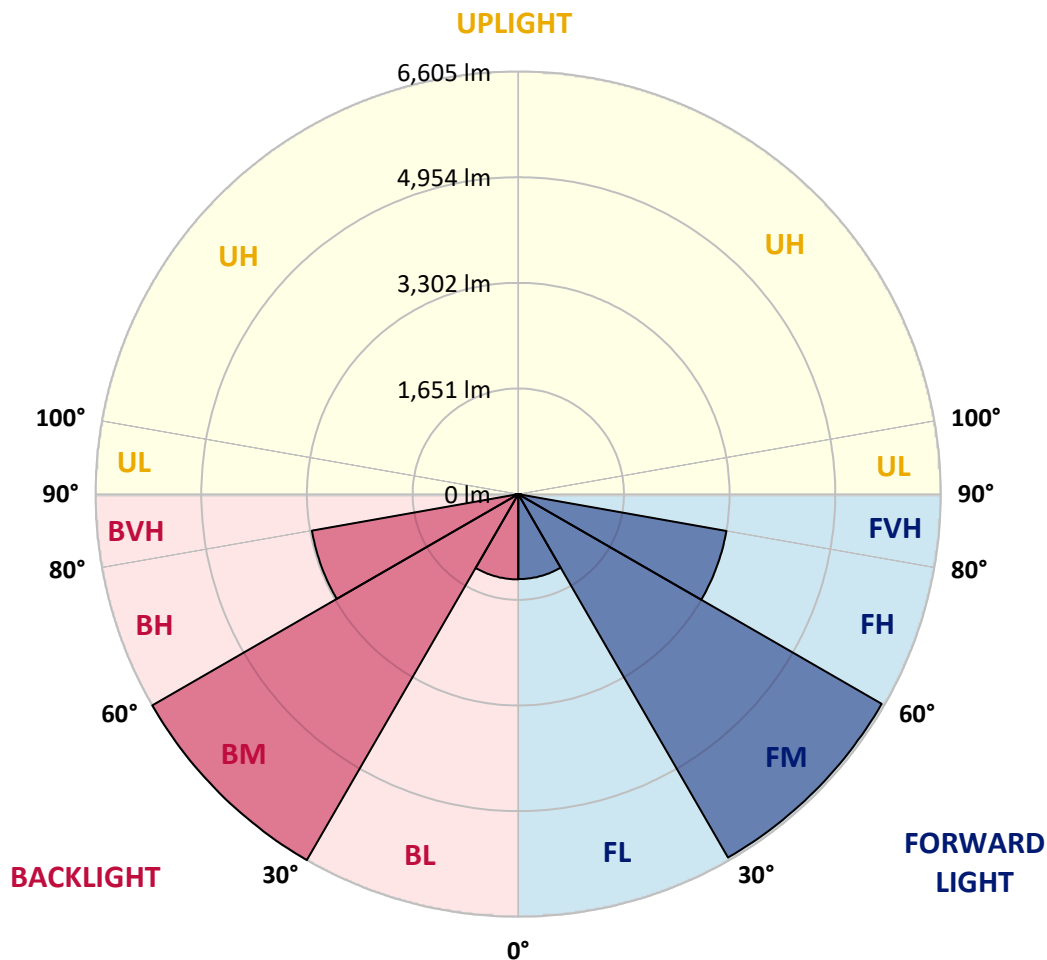
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.8	5.9			
FM (30°-60°)	6557.6	29.1			
FH (60°-80°)	3304.2	14.7			G2/5000
FVH (80°-90°)	48.9	0.2			G1/100
BL (0°-30°)	1333.0	5.9	B3/2500		
BM (30°-60°)	6604.9	29.4	B4/8500		
BH (60°-80°)	3275.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	46.5	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°	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1
2.5°	2603.2	2608.3	2654.8	2636.7	2652.2	2623.8	2644.4	2688.3	2636.7	2675.4	2688.3
5°	2631.5	2639.3	2639.3	2657.3	2667.7	2662.5	2675.4	2657.3	2706.4	2685.7	2716.7
7.5°	2734.7	2721.8	2701.2	2716.7	2719.3	2732.2	2745.1	2768.3	2760.5	2742.5	2773.4
10°	2752.8	2742.5	2773.4	2776.0	2763.1	2752.8	2765.7	2765.7	2788.9	2794.1	2794.1
12.5°	2783.8	2794.1	2791.5	2812.1	2814.7	2807.0	2827.6	2866.3	2856.0	2863.7	2845.7
15°	2902.4	2889.5	2887.0	2907.6	2941.1	2892.1	2928.2	2925.7	2915.3	2930.8	2889.5
17.5°	3005.6	2964.4	2982.4	3015.9	3003.1	3013.4	3059.8	3018.5	3028.8	3010.8	2997.9
20°	3095.9	3062.4	3065.0	3077.9	3077.9	3108.8	3126.9	3111.4	3101.1	3098.5	3103.7
22.5°	3196.5	3157.8	3160.4	3214.6	3232.7	3222.3	3209.4	3235.2	3240.4	3219.8	3243.0
25°	3271.4	3312.6	3325.5	3351.3	3312.6	3341.0	3330.7	3379.7	3410.7	3369.4	3397.8
27.5°	3467.4	3449.4	3482.9	3480.3	3511.3	3482.9	3501.0	3516.5	3529.4	3531.9	3519.0
30°	3642.9	3650.6	3617.1	3707.4	3635.1	3681.6	3712.5	3720.3	3735.8	3735.8	3697.1
32.5°	3828.6	3813.2	3867.3	3846.7	3833.8	3869.9	3836.4	3942.1	3880.2	3916.3	3872.5
35°	4037.6	4037.6	4058.2	4115.0	4037.6	4014.4	4076.3	4120.2	4120.2	4055.7	4071.1
37.5°	4272.4	4251.7	4277.5	4349.8	4290.4	4213.0	4326.6	4344.6	4331.7	4313.7	4282.7
40°	4437.5	4432.3	4483.9	4579.4	4494.3	4478.8	4499.4	4548.4	4563.9	4582.0	4540.7
42.5°	4716.1	4739.3	4889.0	4865.8	4796.1	4741.9	4736.8	4919.9	4876.1	4829.6	4806.4
45°	5128.9	5108.3	5185.7	5188.3	5098.0	4979.3	5005.1	5172.8	5247.6	5144.4	5183.1
47.5°	5456.6	5466.9	5521.1	5632.0	5423.0	5299.2	5394.7	5665.5	5642.3	5603.6	5639.7
50°	5895.2	5941.6	6111.9	6073.2	5887.4	5735.2	5944.2	6199.6	6228.0	6086.1	6060.3
52.5°	6501.4	6573.7	6666.6	6697.5	6519.5	6465.3	6478.2	6795.6	6725.9	6589.2	6501.4
55°	7032.9	7066.5	7236.7	7492.1	7479.2	7218.7	7368.3	7487.0	7203.2	6922.0	6945.2
57.5°	7260.0	7275.4	7750.1	8261.0	8565.4	8624.7	8454.5	8054.6	7378.6	6836.8	6803.3
60°	6694.9	6842.0	7414.7	8568.0	9958.6	10644.8	9512.2	8119.1	6968.4	6310.5	6261.5
62.5°	5350.8	5358.5	6209.9	7959.1	10825.4	12623.6	9917.3	7512.8	5874.5	5128.9	4932.8
64°	3810.6	3882.8	4860.6	7045.8	10644.8	13428.6	9868.3	6720.7	4842.5	3784.8	3648.0
65°	2734.7	2835.4	3779.6	6117.0	10221.7	13333.1	9721.2	6039.6	3916.3	2889.5	2750.2
67.5°	1006.2	1047.5	1483.5	3059.8	7339.9	11362.1	7703.7	3320.4	1720.8	1225.5	1101.6
70°	467.0	469.5	549.5	1011.3	3209.4	7597.9	3676.4	1246.1	647.6	513.4	477.3
72.5°	343.1	350.9	384.4	467.0	944.3	3217.2	1207.4	510.8	379.3	335.4	327.7
75°	278.6	283.8	294.1	338.0	436.0	861.7	490.2	353.5	301.9	270.9	260.6
77.5°	214.1	214.1	237.4	258.0	289.0	402.5	325.1	281.2	245.1	214.1	206.4
80°	154.8	157.4	185.8	201.2	196.1	265.7	234.8	232.2	201.2	167.7	154.8
82.5°	90.3	98.0	134.2	144.5	139.3	157.4	170.3	180.6	157.4	116.1	105.8
85°	51.6	54.2	77.4	80.0	80.0	74.8	98.0	108.4	105.8	72.2	64.5
87.5°	15.5	15.5	20.6	20.6	23.2	25.8	38.7	46.4	51.6	36.1	33.5
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1
2.5°	2675.4	2636.7	2639.3	2649.6	2616.1	2629.0	2667.7	2639.3	2631.5	2616.1	2608.3
5°	2662.5	2703.8	2688.3	2693.5	2685.7	2649.6	2644.4	2667.7	2680.6	2657.3	2703.8
7.5°	2752.8	2734.7	2714.1	2721.8	2703.8	2734.7	2755.4	2708.9	2732.2	2719.3	2693.5
10°	2804.4	2770.9	2786.3	2781.2	2768.3	2799.2	2778.6	2773.4	2752.8	2724.4	2765.7
12.5°	2822.5	2861.2	2887.0	2843.1	2850.8	2835.4	2822.5	2822.5	2799.2	2791.5	2799.2
15°	2902.4	2936.0	2925.7	2959.2	2915.3	2930.8	2946.3	2907.6	2928.2	2871.5	2915.3
17.5°	3049.5	3021.1	3057.2	3013.4	3028.8	3059.8	3010.8	3010.8	3026.3	2995.3	2956.6
20°	3142.4	3129.5	3116.6	3119.1	3093.3	3121.7	3106.2	3098.5	3075.3	3085.6	3106.2
22.5°	3230.1	3212.0	3217.2	3224.9	3243.0	3230.1	3222.3	3230.1	3173.3	3224.9	3152.7
25°	3338.4	3387.5	3372.0	3405.5	3353.9	3387.5	3384.9	3335.9	3366.8	3346.2	3330.7
27.5°	3519.0	3493.2	3516.5	3475.2	3511.3	3513.9	3482.9	3565.5	3529.4	3524.2	3513.9
30°	3751.2	3733.2	3717.7	3694.5	3722.9	3699.6	3725.4	3733.2	3699.6	3673.8	3624.8
32.5°	3882.8	3931.8	3949.9	3893.1	3895.7	3908.6	3885.4	3862.2	3882.8	3890.5	3882.8
35°	4068.6	4115.0	4125.3	4081.5	4058.2	4122.7	4076.3	4153.7	4086.6	4089.2	4019.5
37.5°	4285.3	4298.2	4385.9	4336.9	4316.2	4285.3	4370.4	4360.1	4375.6	4251.7	4313.7
40°	4530.4	4576.8	4625.8	4502.0	4499.4	4527.8	4522.6	4582.0	4553.6	4535.5	4491.7
42.5°	4798.7	4896.7	4904.5	4821.9	4770.3	4765.1	4790.9	4922.5	4925.1	4806.4	4754.8
45°	5154.7	5263.1	5234.7	5074.7	5018.0	5010.2	5136.7	5193.4	5242.4	5196.0	5152.1
47.5°	5598.5	5670.7	5650.1	5503.0	5319.8	5371.4	5495.3	5673.3	5621.7	5559.8	5508.2
50°	6073.2	6158.3	6114.5	5967.4	5792.0	5792.0	5944.2	6171.2	6155.7	6034.5	5988.0
52.5°	6599.5	6723.3	6823.9	6615.0	6467.9	6491.1	6731.1	6813.6	6774.9	6689.8	6651.1
55°	6991.6	7229.0	7435.4	7445.7	7453.4	7450.9	7512.8	7595.3	7319.3	7182.6	7043.2
57.5°	6896.2	7345.1	8052.0	8531.9	8673.8	8748.6	8727.9	8346.1	7693.4	7244.5	7290.9
60°	6215.1	6947.8	8088.1	9628.3	10660.3	10557.1	10180.4	8671.2	7487.0	6728.5	6633.0
62.5°	4958.6	5841.0	7481.8	9937.9	12781.0	12750.1	10779.0	7920.4	6238.3	5278.6	5219.2
64°	3735.8	4664.5	6674.3	9858.0	13524.0	13555.0	10626.8	6996.8	4881.2	3735.8	3645.5
65°	2858.6	3720.3	5882.3	9692.8	13364.1	13382.1	10203.7	6042.2	3710.0	2652.2	2554.1
67.5°	1137.8	1584.1	3191.4	7350.2	11475.6	11426.6	7280.6	2923.1	1419.0	923.6	905.6
70°	485.0	603.7	1119.7	3482.9	7683.1	7541.2	3134.6	949.4	526.3	441.2	438.6
72.5°	332.8	368.9	479.9	1075.8	3194.0	3119.1	892.7	441.2	358.6	330.2	330.2
75°	268.3	294.1	348.3	451.5	846.2	815.3	420.5	325.1	286.4	265.7	263.2
77.5°	209.0	234.8	273.5	312.2	387.0	384.4	281.2	245.1	221.9	206.4	201.2
80°	165.1	190.9	216.7	221.9	252.8	247.7	190.9	193.5	180.6	149.6	147.1
82.5°	113.5	154.8	172.9	157.4	149.6	149.6	136.7	136.7	126.4	92.9	85.1
85°	69.7	103.2	108.4	92.9	69.7	69.7	74.8	72.2	67.1	49.0	46.4
87.5°	36.1	49.0	43.9	36.1	23.2	23.2	20.6	15.5	15.5	12.9	12.9
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)