

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: P481418

Luminaire Tested: **IFLD-L-SA7A-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

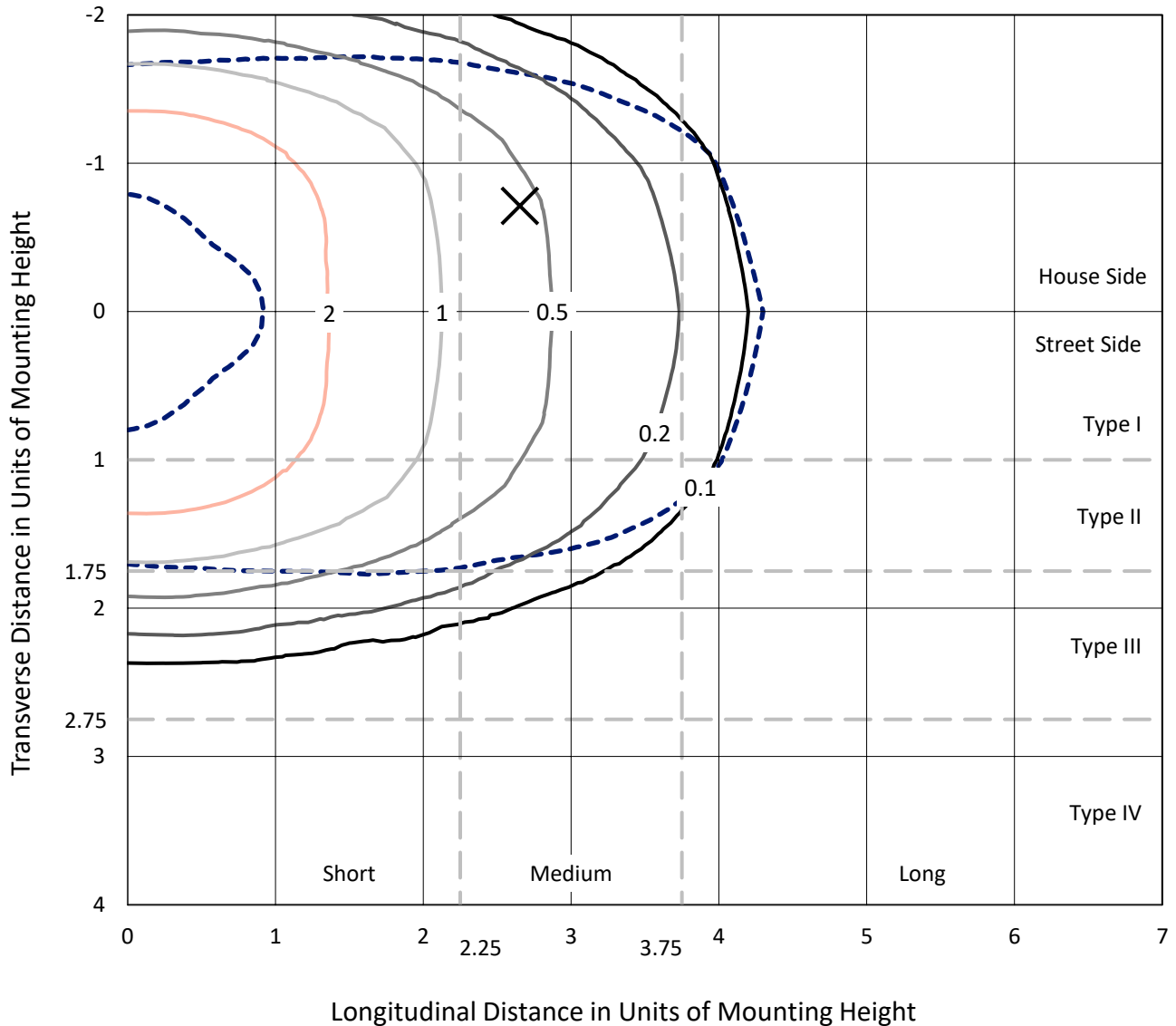
Lumens per Lamp: N/A
Luminaire Lumens: 23699.9 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

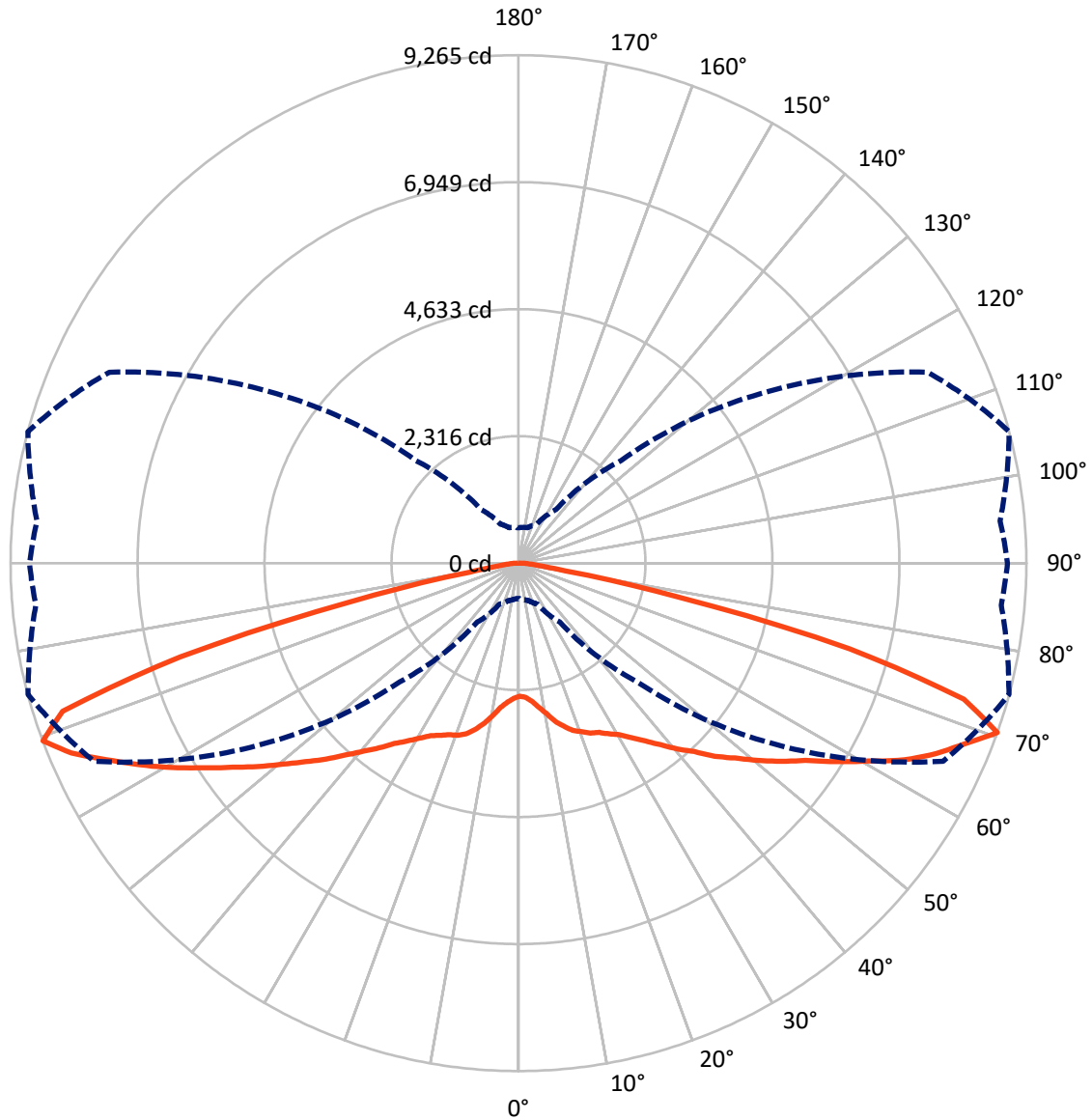
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11765.6	0.0	11765.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11934.3	0.0	11934.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	23699.9	0.0	23699.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.0
10°-20°	822.5	3.5
20°-30°	1592.6	6.7
30°-40°	2693.7	11.4
40°-50°	4297.3	18.1
50°-60°	5882.0	24.8
60°-70°	5544.2	23.4
70°-80°	2442.4	10.3
80°-90°	183.8	0.8
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°	23699.9	100.0
0°-180°	23699.9	100.0

Coefficient of Utilization

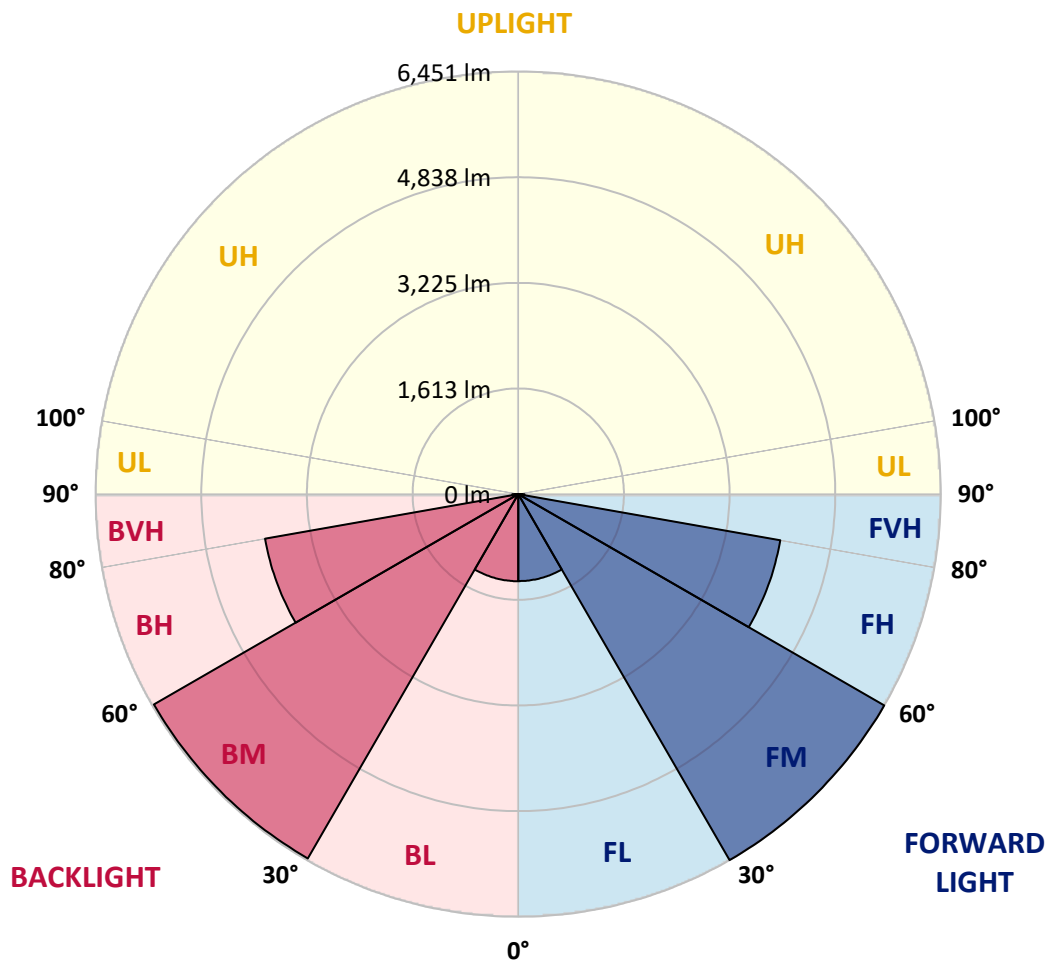


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.6	5.6			
FM (30°-60°)	6450.9	27.2			
FH (60°-80°)	4061.9	17.1			G2/5000
FVH (80°-90°)	93.9	0.4			G1/100
BL (0°-30°)	1329.0	5.6	B3/2500		
BM (30°-60°)	6422.1	27.1	B4/8500		
BH (60°-80°)	3924.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	89.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8
2.5°	2411.5	2411.5	2409.0	2421.7	2434.5	2439.6	2449.8	2452.4	2467.7	2454.9	2480.5
5°	2403.9	2401.3	2421.7	2452.4	2452.4	2485.6	2506.0	2534.1	2541.8	2557.1	2562.2
7.5°	2457.5	2452.4	2442.2	2475.4	2503.5	2554.6	2582.7	2631.2	2649.1	2669.5	2692.5
10°	2490.7	2490.7	2480.5	2539.2	2564.8	2633.8	2695.1	2743.6	2812.6	2835.6	2838.1
12.5°	2495.8	2503.5	2534.1	2610.8	2682.3	2771.7	2817.7	2909.7	2978.6	3022.1	3037.4
15°	2572.5	2557.1	2590.3	2695.1	2799.8	2879.0	2960.8	3027.2	3126.8	3183.0	3218.8
17.5°	2641.4	2626.1	2687.4	2812.6	2919.9	3042.5	3114.0	3185.6	3257.1	3308.2	3310.7
20°	2751.3	2764.1	2817.7	2953.1	3093.6	3200.9	3282.6	3295.4	3331.2	3405.3	3392.5
22.5°	2886.7	2876.5	2988.9	3137.0	3290.3	3379.7	3425.7	3392.5	3374.6	3453.8	3471.7
25°	3022.1	3052.7	3154.9	3292.8	3476.8	3596.8	3609.6	3517.7	3451.2	3479.3	3471.7
27.5°	3229.0	3234.1	3341.4	3504.9	3691.4	3796.1	3788.4	3658.2	3530.4	3533.0	3538.1
30°	3494.7	3469.1	3586.6	3734.8	3918.7	4013.2	4026.0	3839.5	3668.4	3617.3	3630.1
32.5°	3750.1	3780.8	3883.0	4051.6	4187.0	4240.6	4212.5	4046.4	3824.2	3755.2	3762.9
35°	4077.1	4072.0	4212.5	4355.6	4457.7	4468.0	4445.0	4202.3	3992.8	3903.4	3867.6
37.5°	4427.1	4473.1	4565.0	4682.5	4789.8	4794.9	4669.8	4475.6	4217.6	4069.4	4112.9
40°	4817.9	4869.0	4935.4	5106.6	5185.8	5104.0	4976.3	4713.2	4445.0	4314.7	4335.1
42.5°	5162.8	5185.8	5321.2	5523.0	5561.3	5525.5	5336.5	5017.2	4705.5	4562.5	4572.7
45°	5479.6	5510.2	5686.5	5867.9	5957.3	5896.0	5676.3	5372.3	5009.5	4886.9	4838.4
47.5°	5770.8	5832.1	6003.3	6189.7	6327.7	6332.8	6062.0	5694.2	5311.0	5150.0	5147.5
50°	5967.5	6056.9	6225.5	6437.5	6639.3	6718.5	6447.8	6051.8	5640.5	5469.3	5451.5
52.5°	6074.8	6166.7	6335.3	6664.9	6889.7	7012.3	6884.6	6386.4	6026.2	5847.4	5819.3
55°	5944.5	6005.8	6281.7	6744.1	7091.5	7293.3	7209.0	6848.8	6409.4	6263.8	6289.4
57.5°	5390.2	5517.9	5857.6	6435.0	7086.4	7582.0	7574.3	7285.7	6851.4	6713.4	6718.5
60°	4437.3	4544.6	4963.5	5770.8	6800.3	7699.5	7970.3	7709.7	7347.0	7186.0	7180.9
62.5°	3131.9	3267.3	3752.7	4634.0	5957.3	7536.0	8425.0	8243.6	7832.3	7714.8	7758.2
65°	1752.4	1834.2	2283.8	3080.8	4539.5	6636.8	8506.7	8798.0	8325.4	8146.5	8154.2
67.5°	937.5	968.2	1177.7	1617.0	2776.8	5116.8	7681.6	9117.3	8859.3	8550.2	8501.6
70°	643.8	654.0	707.6	827.7	1313.1	3060.4	5793.8	8547.6	9260.3	8838.8	8920.6
72.5°	544.1	539.0	551.8	564.6	687.2	1369.3	3400.1	6578.0	8741.8	8583.4	8552.7
75°	472.6	470.0	475.2	462.4	477.7	602.9	1504.6	4100.1	6399.2	7142.6	7257.6
77.5°	390.9	393.4	396.0	383.2	378.1	398.5	605.4	1801.0	3149.8	3476.8	3750.1
80°	296.3	301.4	321.9	309.1	288.7	291.2	357.6	602.9	904.3	820.0	845.6
82.5°	201.8	204.4	247.8	232.5	217.1	196.7	229.9	311.7	352.5	268.2	235.0
85°	143.1	140.5	160.9	148.2	137.9	99.6	137.9	176.3	212.0	132.8	120.1
87.5°	33.2	33.2	66.4	53.6	51.1	40.9	53.6	69.0	92.0	58.8	53.6
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°	145°	155°	165°	175°	180°
0°	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8
2.5°	2472.8	2449.8	2449.8	2444.7	2424.3	2419.2	2401.3	2406.4	2393.6	2380.9
5°	2559.7	2529.0	2529.0	2485.6	2444.7	2439.6	2419.2	2419.2	2398.7	2403.9
7.5°	2679.8	2651.7	2605.7	2567.3	2511.1	2488.2	2449.8	2444.7	2439.6	2429.4
10°	2822.8	2787.0	2741.1	2661.9	2615.9	2572.5	2534.1	2480.5	2467.7	2470.3
12.5°	3017.0	2960.8	2861.1	2792.2	2733.4	2677.2	2621.0	2541.8	2523.9	2531.6
15°	3154.9	3083.4	2983.7	2958.2	2879.0	2810.0	2718.1	2628.7	2598.0	2590.3
17.5°	3267.3	3208.5	3149.8	3111.5	3047.6	2963.3	2835.6	2733.4	2664.4	2656.8
20°	3359.3	3282.6	3269.9	3292.8	3213.7	3157.5	3001.6	2876.5	2784.5	2746.2
22.5°	3415.5	3366.9	3402.7	3423.1	3418.0	3323.5	3162.6	3017.0	2902.0	2866.2
25°	3476.8	3420.6	3548.3	3617.3	3635.2	3479.3	3354.2	3162.6	3050.2	3027.2
27.5°	3507.4	3527.9	3676.0	3821.6	3808.9	3688.8	3520.2	3349.0	3259.6	3218.8
30°	3596.8	3630.1	3854.9	4018.3	4020.9	3903.4	3775.7	3581.5	3481.9	3464.0
32.5°	3757.8	3798.7	4038.8	4212.5	4243.2	4153.7	4026.0	3905.9	3803.8	3762.9
35°	3880.4	3985.1	4255.9	4414.3	4496.1	4442.4	4370.9	4245.7	4138.4	4102.6
37.5°	4056.7	4202.3	4462.8	4677.4	4769.4	4764.3	4710.6	4575.2	4485.8	4455.2
40°	4309.6	4455.2	4692.8	4976.3	5147.5	5139.8	5109.2	5004.4	4871.6	4856.2
42.5°	4577.8	4697.9	5007.0	5331.4	5576.6	5551.1	5469.3	5346.7	5254.8	5234.3
45°	4838.4	5024.9	5311.0	5727.4	5911.3	5975.2	5878.1	5668.6	5563.9	5551.1
47.5°	5165.4	5313.5	5671.2	6044.1	6317.5	6327.7	6161.6	5967.5	5775.9	5816.8
50°	5456.6	5653.3	6016.0	6424.8	6751.7	6634.2	6422.2	6179.5	6041.6	5987.9
52.5°	5768.2	6008.4	6429.9	6846.3	7027.6	6910.1	6565.3	6294.5	6085.0	6062.0
55°	6222.9	6348.1	6899.9	7219.2	7278.0	7030.2	6521.8	6138.6	5867.9	5801.4
57.5°	6685.3	6830.9	7313.8	7589.6	7528.3	6963.8	6240.8	5648.2	5293.1	5198.6
60°	7152.8	7331.6	7737.8	7990.7	7673.9	6506.5	5446.4	4682.5	4268.7	4184.4
62.5°	7673.9	7906.4	8269.2	8358.6	7242.2	5602.2	4322.3	3379.7	2960.8	2820.3
65°	8136.3	8373.9	8821.0	8281.9	6325.1	4179.3	2794.7	1931.3	1622.2	1509.8
67.5°	8517.0	8785.2	9004.9	7329.1	4631.4	2447.3	1456.1	1016.7	901.8	860.9
70°	8818.4	9265.4	8238.5	5387.6	2646.5	1193.0	786.8	669.3	654.0	643.8
72.5°	8555.3	8496.5	6151.4	3108.9	1159.8	656.5	569.7	551.8	549.2	551.8
75°	6997.0	6240.8	3678.6	1351.4	582.4	475.2	472.6	464.9	477.7	477.7
77.5°	3395.0	2968.4	1537.9	579.9	383.2	373.0	385.7	385.7	385.7	385.7
80°	786.8	871.1	549.2	352.5	278.4	278.4	306.5	309.1	296.3	291.2
82.5°	268.2	357.6	301.4	222.2	183.9	206.9	232.5	237.6	196.7	199.3
85°	132.8	209.5	163.5	127.7	94.5	127.7	150.7	158.4	135.4	130.3
87.5°	61.3	92.0	61.3	43.4	33.2	46.0	43.4	35.8	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)