

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: P481201

Luminaire Tested: **IFLD-S-SA3D-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481201
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

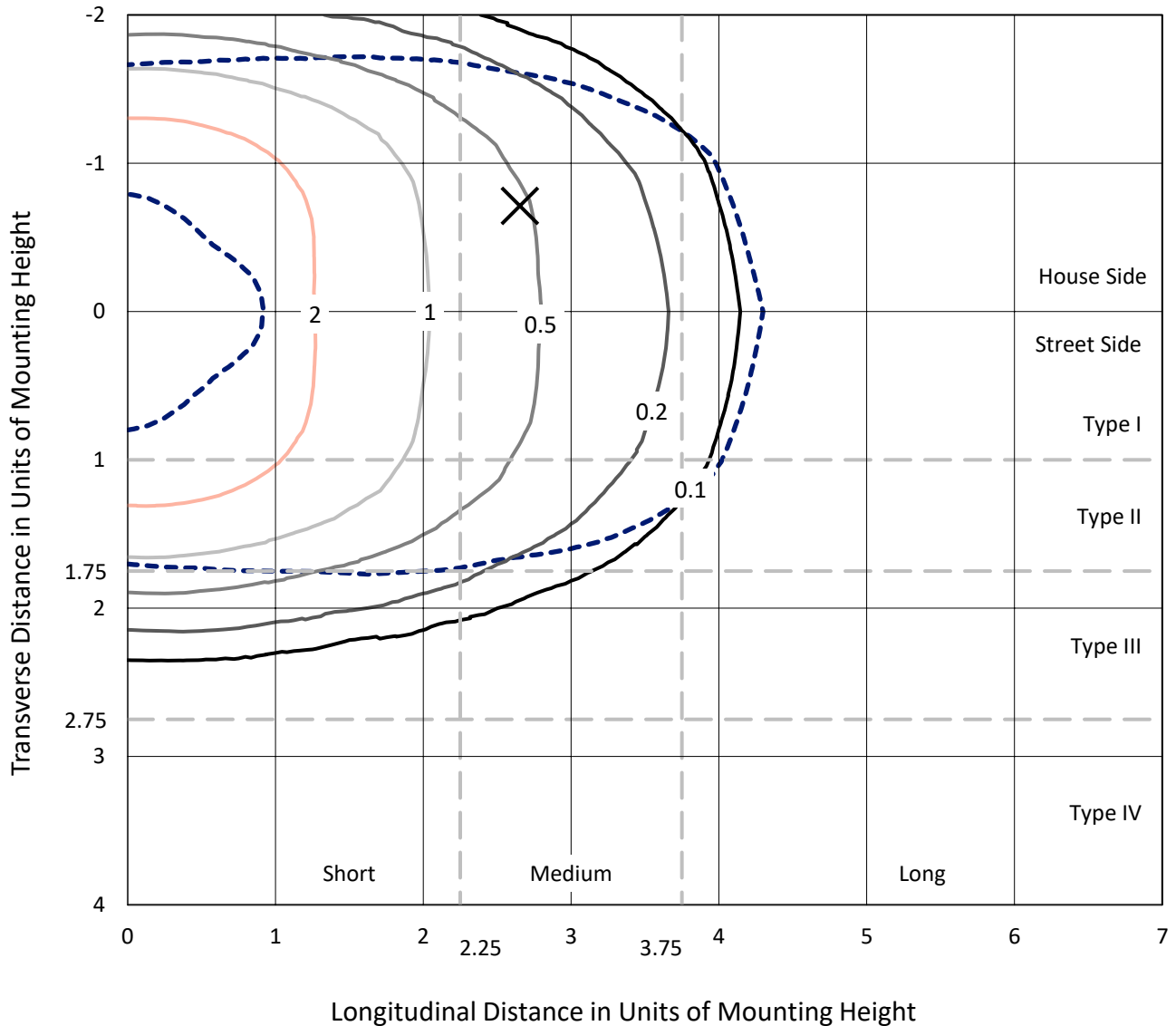
Lumens per Lamp: N/A
Luminaire Lumens: 21860.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 184.1
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

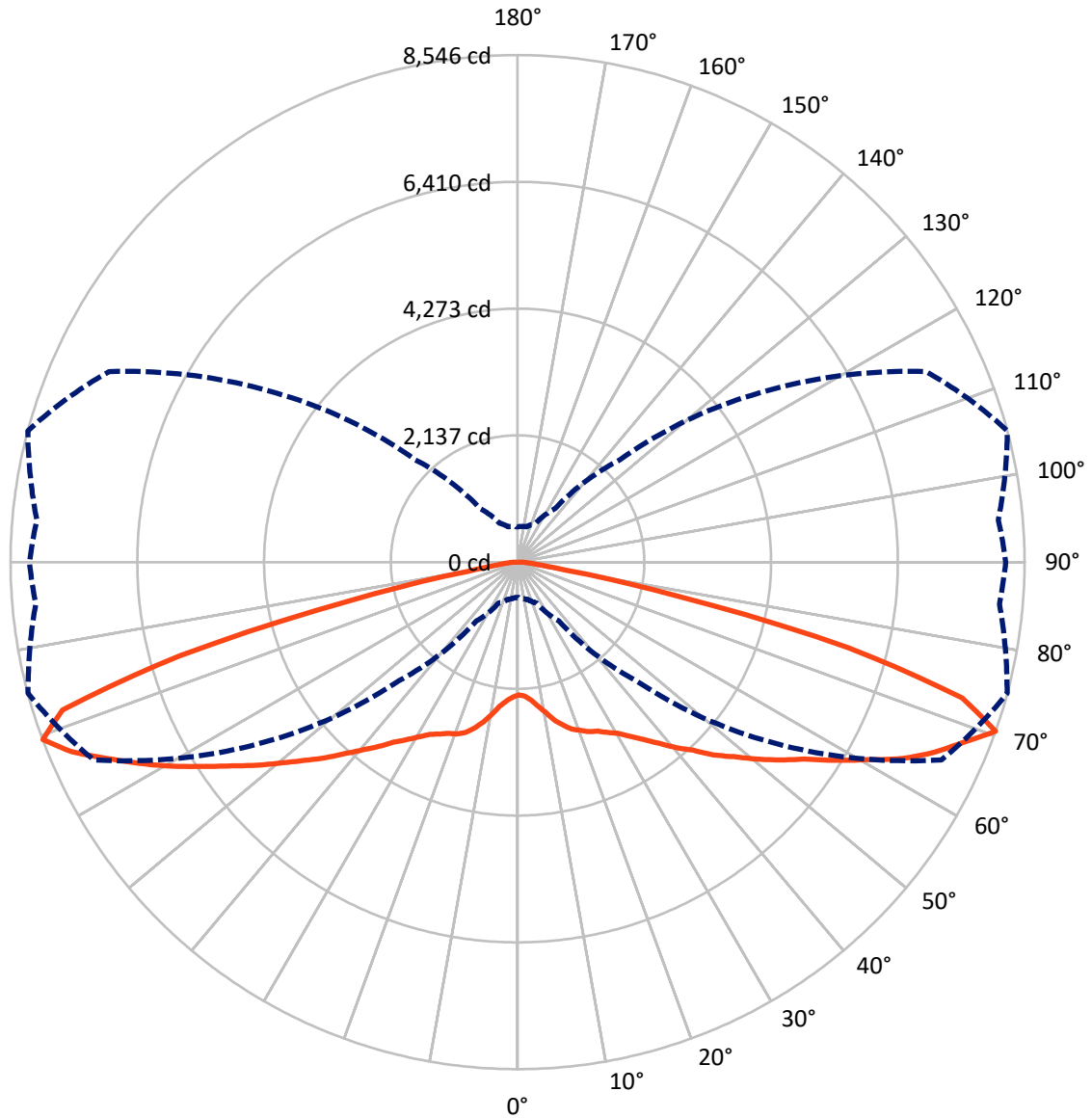
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	10852.6	0.0	10852.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11008.1	0.0	11008.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	21860.6	0.0	21860.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.8	1.0
10°-20°	758.6	3.5
20°-30°	1469.0	6.7
30°-40°	2484.7	11.4
40°-50°	3963.8	18.1
50°-60°	5425.5	24.8
60°-70°	5113.9	23.4
70°-80°	2252.8	10.3
80°-90°	169.5	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°	21860.6	100.0
0°-180°	21860.6	100.0

Coefficient of Utilization

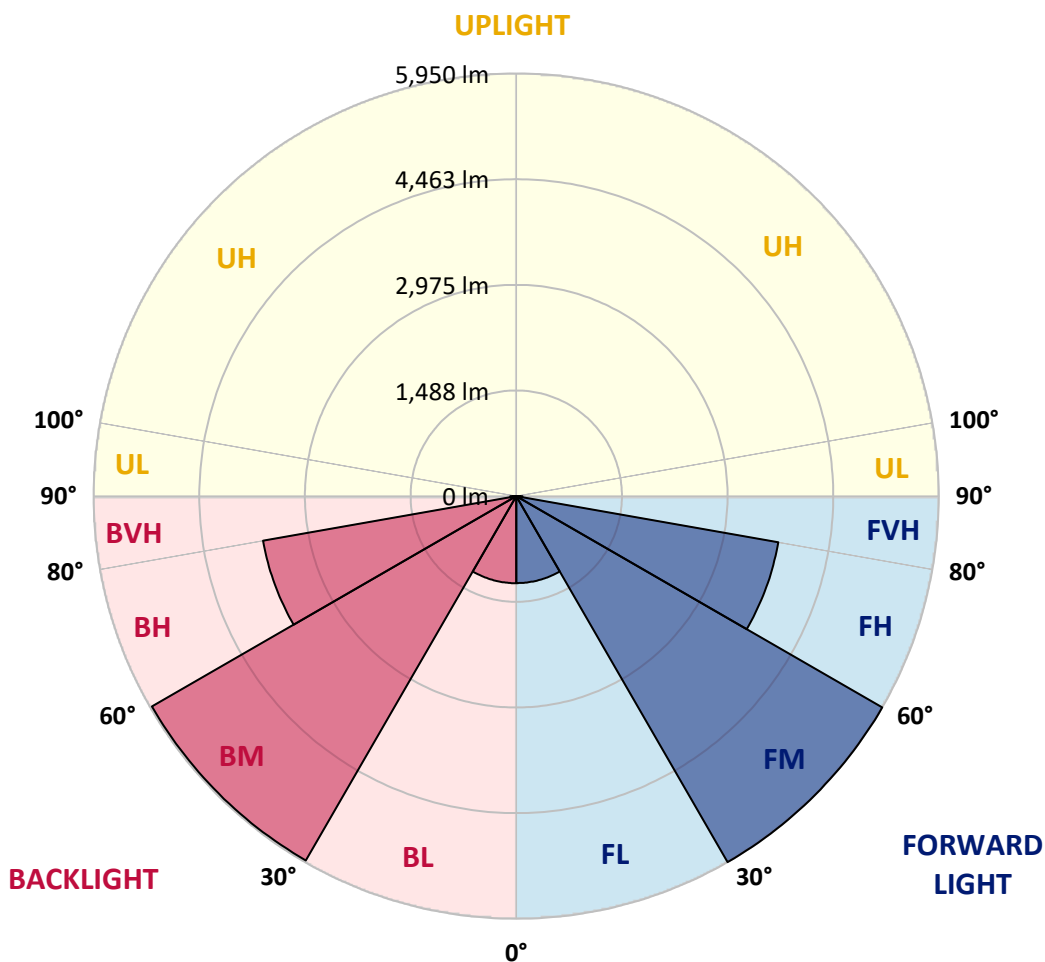


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.5	5.6			
FM (30°-60°)	5950.3	27.2			
FH (60°-80°)	3746.7	17.1			G2/5000
FVH (80°-90°)	86.6	0.4			G1/100
BL (0°-30°)	1225.9	5.6	B3/2500		
BM (30°-60°)	5923.7	27.1	B4/8500		
BH (60°-80°)	3620.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	82.9	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°	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5
2.5°	2224.4	2224.4	2222.0	2233.8	2245.6	2250.3	2259.7	2262.1	2276.2	2264.4	2288.0
5°	2217.3	2214.9	2233.8	2262.1	2262.1	2292.7	2311.6	2337.5	2344.5	2358.7	2363.4
7.5°	2266.8	2262.1	2252.6	2283.3	2309.2	2356.3	2382.2	2427.0	2443.5	2462.4	2483.6
10°	2297.4	2297.4	2288.0	2342.2	2365.7	2429.4	2485.9	2530.7	2594.3	2615.5	2617.9
12.5°	2302.1	2309.2	2337.5	2408.2	2474.1	2556.6	2599.0	2683.9	2747.5	2787.5	2801.7
15°	2372.8	2358.7	2389.3	2485.9	2582.5	2655.6	2731.0	2792.2	2884.1	2936.0	2969.0
17.5°	2436.4	2422.3	2478.9	2594.3	2693.3	2806.4	2872.4	2938.3	3004.3	3051.4	3053.8
20°	2537.8	2549.5	2599.0	2723.9	2853.5	2952.5	3027.9	3039.7	3072.6	3141.0	3129.2
22.5°	2662.6	2653.2	2756.9	2893.6	3034.9	3117.4	3159.8	3129.2	3112.7	3185.8	3202.2
25°	2787.5	2815.8	2910.1	3037.3	3207.0	3317.7	3329.5	3244.7	3183.4	3209.3	3202.2
27.5°	2978.4	2983.1	3082.1	3232.9	3404.9	3501.5	3494.4	3374.3	3256.4	3258.8	3263.5
30°	3223.5	3199.9	3308.3	3444.9	3614.6	3701.8	3713.6	3541.6	3383.7	3336.6	3348.3
32.5°	3459.1	3487.4	3581.6	3737.1	3862.0	3911.5	3885.6	3732.4	3527.4	3463.8	3470.9
35°	3760.7	3756.0	3885.6	4017.5	4111.8	4121.2	4100.0	3876.2	3682.9	3600.5	3567.5
37.5°	4083.5	4125.9	4210.8	4319.1	4418.1	4422.8	4307.4	4128.3	3890.3	3753.6	3793.7
40°	4444.0	4491.2	4552.4	4710.3	4783.3	4707.9	4590.1	4347.4	4100.0	3979.8	3998.7
42.5°	4762.1	4783.3	4908.2	5094.4	5129.7	5096.7	4922.4	4627.8	4340.3	4208.4	4217.8
45°	5054.3	5082.6	5245.2	5412.5	5494.9	5438.4	5235.8	4955.4	4620.8	4507.6	4462.9
47.5°	5322.9	5379.5	5537.4	5709.4	5836.6	5841.3	5591.6	5252.2	4898.8	4750.4	4748.0
50°	5504.4	5586.8	5742.4	5937.9	6124.1	6197.1	5947.4	5582.1	5202.8	5044.9	5028.4
52.5°	5603.3	5688.2	5843.7	6147.7	6355.0	6468.1	6350.3	5890.8	5558.6	5393.6	5367.7
55°	5483.2	5539.7	5794.2	6220.7	6541.2	6727.3	6649.5	6317.3	5912.0	5777.7	5801.3
57.5°	4971.8	5089.7	5403.1	5935.6	6536.4	6993.6	6986.5	6720.2	6319.7	6192.4	6197.1
60°	4092.9	4191.9	4578.3	5322.9	6272.5	7102.0	7351.7	7111.4	6776.8	6628.3	6623.6
62.5°	2888.9	3013.7	3461.4	4274.4	5494.9	6951.2	7771.2	7603.9	7224.5	7116.1	7156.2
65°	1616.4	1691.8	2106.6	2841.7	4187.2	6121.7	7846.6	8115.2	7679.3	7514.3	7521.4
67.5°	864.8	893.0	1086.3	1491.6	2561.3	4719.7	7085.5	8409.7	8171.7	7886.6	7841.8
70°	593.8	603.2	652.7	763.4	1211.2	2822.9	5344.1	7884.3	8541.7	8152.9	8228.3
72.5°	501.9	497.2	509.0	520.7	633.9	1263.0	3136.3	6067.5	8063.3	7917.3	7889.0
75°	435.9	433.6	438.3	426.5	440.6	556.1	1387.9	3781.9	5902.6	6588.3	6694.3
77.5°	360.5	362.9	365.2	353.4	348.7	367.6	558.4	1661.2	2905.3	3207.0	3459.1
80°	273.3	278.0	296.9	285.1	266.3	268.6	329.9	556.1	834.1	756.4	779.9
82.5°	186.1	188.5	228.6	214.4	200.3	181.4	212.1	287.5	325.2	247.4	216.8
85°	132.0	129.6	148.4	136.7	127.2	91.9	127.2	162.6	195.6	122.5	110.7
87.5°	30.6	30.6	61.3	49.5	47.1	37.7	49.5	63.6	84.8	54.2	49.5
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°	145°	155°	165°	175°	180°
0°	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5	2238.5
2.5°	2280.9	2259.7	2259.7	2255.0	2236.2	2231.4	2214.9	2219.7	2207.9	2196.1
5°	2361.0	2332.8	2332.8	2292.7	2255.0	2250.3	2231.4	2231.4	2212.6	2217.3
7.5°	2471.8	2445.9	2403.5	2368.1	2316.3	2295.1	2259.7	2255.0	2250.3	2240.9
10°	2603.7	2570.8	2528.3	2455.3	2412.9	2372.8	2337.5	2288.0	2276.2	2278.6
12.5°	2782.8	2731.0	2639.1	2575.5	2521.3	2469.4	2417.6	2344.5	2328.0	2335.1
15°	2910.1	2844.1	2752.2	2728.6	2655.6	2592.0	2507.1	2424.7	2396.4	2389.3
17.5°	3013.7	2959.5	2905.3	2870.0	2811.1	2733.3	2615.5	2521.3	2457.6	2450.6
20°	3098.6	3027.9	3016.1	3037.3	2964.3	2912.4	2768.7	2653.2	2568.4	2533.0
22.5°	3150.4	3105.6	3138.6	3157.5	3152.8	3065.6	2917.1	2782.8	2676.8	2643.8
25°	3207.0	3155.1	3272.9	3336.6	3353.0	3209.3	3093.9	2917.1	2813.5	2792.2
27.5°	3235.2	3254.1	3390.8	3525.1	3513.3	3402.5	3247.0	3089.1	3006.7	2969.0
30°	3317.7	3348.3	3555.7	3706.5	3708.9	3600.5	3482.6	3303.6	3211.7	3195.2
32.5°	3466.2	3503.9	3725.3	3885.6	3913.9	3831.4	3713.6	3602.8	3508.6	3470.9
35°	3579.3	3675.9	3925.6	4071.7	4147.1	4097.6	4031.7	3916.2	3817.2	3784.3
37.5°	3741.8	3876.2	4116.5	4314.4	4399.3	4394.5	4345.1	4220.2	4137.7	4109.4
40°	3975.1	4109.4	4328.6	4590.1	4748.0	4740.9	4712.6	4616.0	4493.5	4479.4
42.5°	4222.5	4333.3	4618.4	4917.6	5143.9	5120.3	5044.9	4931.8	4847.0	4828.1
45°	4462.9	4634.9	4898.8	5282.9	5452.5	5511.4	5421.9	5228.7	5132.1	5120.3
47.5°	4764.5	4901.2	5231.0	5575.1	5827.2	5836.6	5683.5	5504.4	5327.6	5365.4
50°	5033.1	5214.5	5549.1	5926.2	6227.8	6119.4	5923.8	5699.9	5572.7	5523.2
52.5°	5320.6	5542.1	5930.9	6314.9	6482.2	6373.9	6055.8	5806.0	5612.8	5591.6
55°	5740.0	5855.5	6364.4	6659.0	6713.2	6484.6	6015.7	5662.2	5412.5	5351.2
57.5°	6166.5	6300.8	6746.2	7000.6	6944.1	6423.3	5756.5	5209.8	4882.3	4795.1
60°	6597.7	6762.7	7137.3	7370.6	7078.4	6001.6	5023.7	4319.1	3937.4	3859.7
62.5°	7078.4	7292.8	7627.4	7709.9	6680.2	5167.4	3986.9	3117.4	2731.0	2601.4
65°	7504.9	7724.0	8136.4	7639.2	5834.3	3854.9	2577.8	1781.4	1496.3	1392.6
67.5°	7856.0	8103.4	8306.0	6760.3	4272.0	2257.4	1343.1	937.8	831.8	794.1
70°	8134.0	8546.4	7599.1	4969.5	2441.2	1100.4	725.7	617.4	603.2	593.8
72.5°	7891.3	7837.1	5674.0	2867.6	1069.8	605.6	525.5	509.0	506.6	509.0
75°	6454.0	5756.5	3393.1	1246.5	537.2	438.3	435.9	428.9	440.6	440.6
77.5°	3131.6	2738.0	1418.5	534.9	353.4	344.0	355.8	355.8	355.8	355.8
80°	725.7	803.5	506.6	325.2	256.8	256.8	282.8	285.1	273.3	268.6
82.5°	247.4	329.9	278.0	205.0	169.7	190.9	214.4	219.1	181.4	183.8
85°	122.5	193.2	150.8	117.8	87.2	117.8	139.0	146.1	124.9	120.2
87.5°	56.6	84.8	56.6	40.1	30.6	42.4	40.1	33.0	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)