

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: P481317

Luminaire Tested: **IFLD-S-SA3C-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481317
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

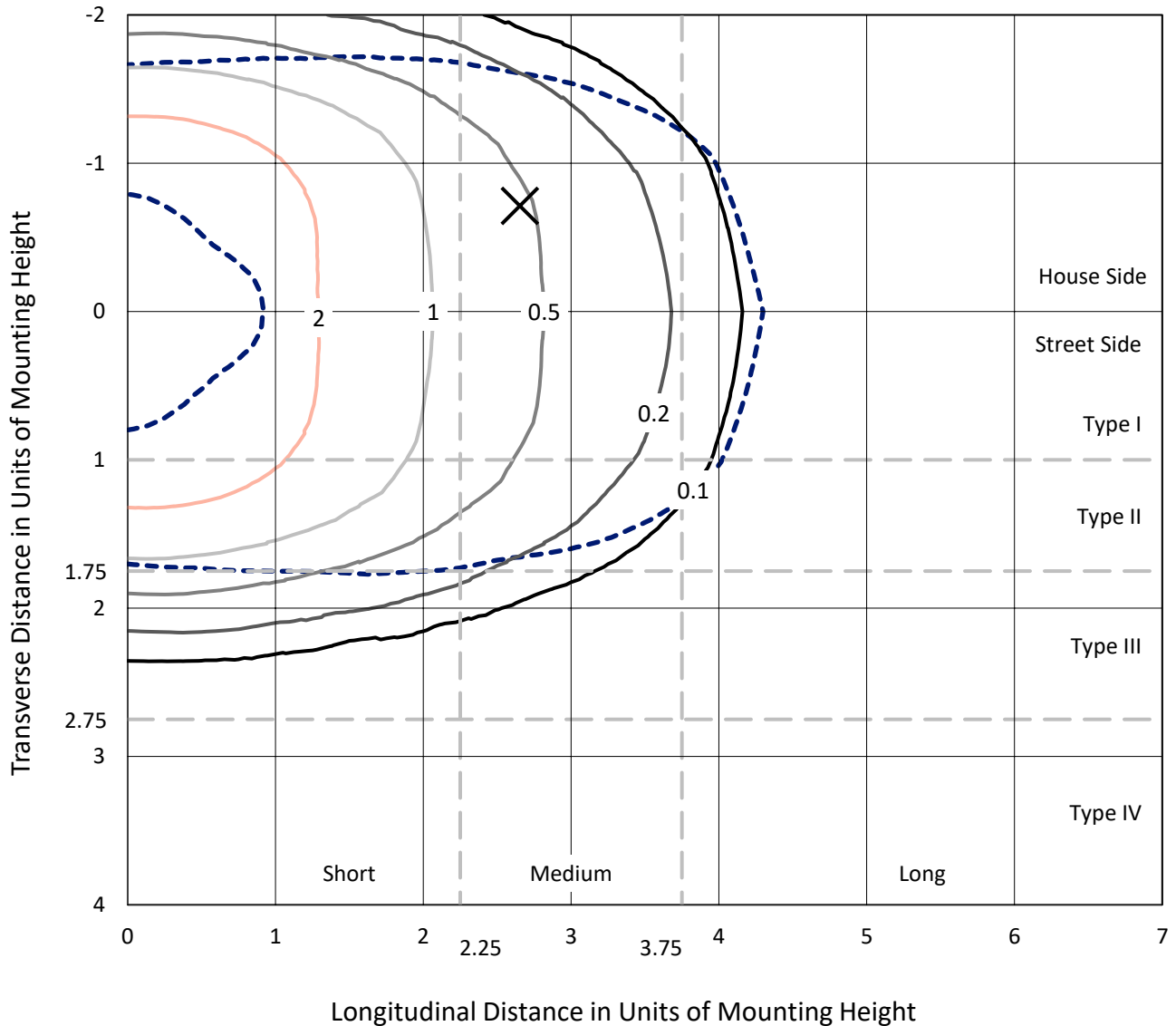
Lumens per Lamp: N/A
Luminaire Lumens: 22317.6 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 160.8
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

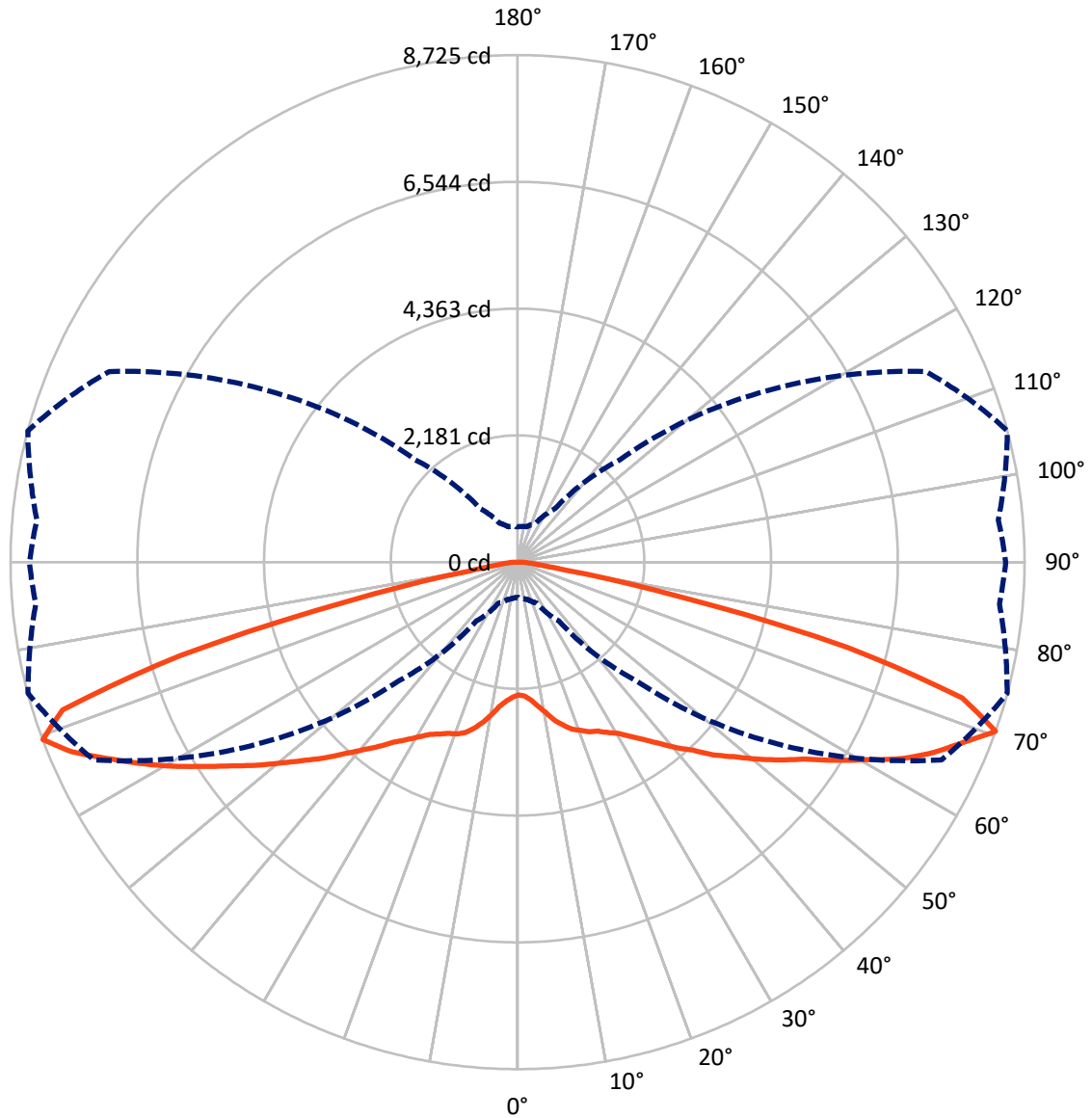
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type 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	11079.4	0.0	11079.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11238.2	0.0	11238.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	22317.6	0.0	22317.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	1.0
10°-20°	774.5	3.5
20°-30°	1499.7	6.7
30°-40°	2536.6	11.4
40°-50°	4046.6	18.1
50°-60°	5539.0	24.8
60°-70°	5220.8	23.4
70°-80°	2299.9	10.3
80°-90°	173.0	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°	22317.6	100.0
0°-180°	22317.6	100.0

Coefficient of Utilization



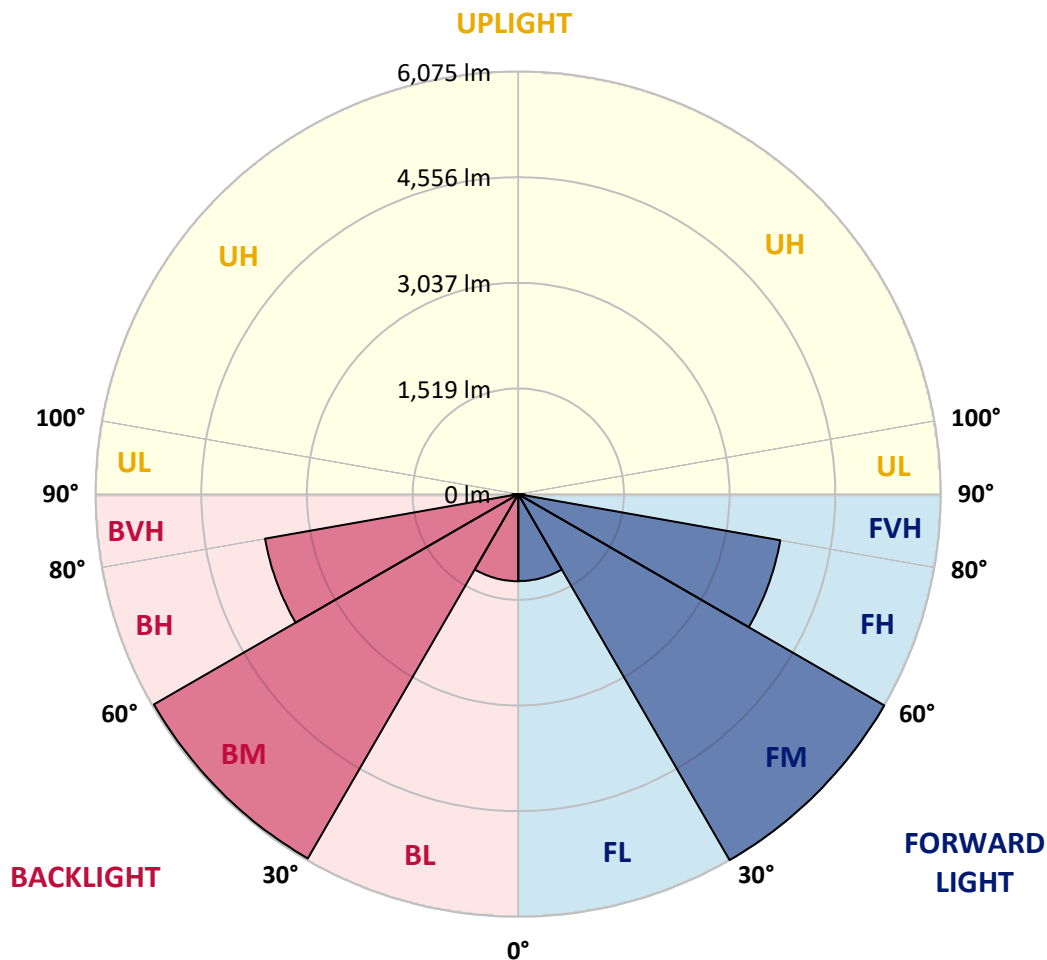
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.1	5.6			
FM (30°-60°)	6074.7	27.2			
FH (60°-80°)	3825.0	17.1			G2/5000
FVH (80°-90°)	88.4	0.4			G1/100
BL (0°-30°)	1251.5	5.6	B3/2500		
BM (30°-60°)	6047.5	27.1	B4/8500		
BH (60°-80°)	3695.8	16.6	B4/5000		G4/5000
BVH (80°-90°)	84.7	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°	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3
2.5°	2270.9	2270.9	2268.5	2280.5	2292.5	2297.3	2307.0	2309.4	2323.8	2311.8	2335.8
5°	2263.7	2261.2	2280.5	2309.4	2309.4	2340.6	2359.9	2386.3	2393.6	2408.0	2412.8
7.5°	2314.2	2309.4	2299.7	2331.0	2357.5	2405.6	2432.0	2477.8	2494.6	2513.8	2535.5
10°	2345.4	2345.4	2335.8	2391.2	2415.2	2480.2	2537.9	2583.6	2648.5	2670.2	2672.6
12.5°	2350.3	2357.5	2386.3	2458.5	2525.9	2610.1	2653.4	2740.0	2804.9	2845.8	2860.2
15°	2422.4	2408.0	2439.3	2537.9	2636.5	2711.1	2788.1	2850.6	2944.4	2997.4	3031.0
17.5°	2487.4	2472.9	2530.7	2648.5	2749.6	2865.1	2932.4	2999.8	3067.1	3115.2	3117.6
20°	2590.8	2602.8	2653.4	2780.9	2913.2	3014.2	3091.2	3103.2	3136.9	3206.6	3194.6
22.5°	2718.3	2708.7	2814.5	2954.1	3098.4	3182.6	3225.9	3194.6	3177.8	3252.4	3269.2
25°	2845.8	2874.7	2970.9	3100.8	3274.0	3387.1	3399.1	3312.5	3249.9	3276.4	3269.2
27.5°	3040.7	3045.5	3146.5	3300.5	3476.1	3574.7	3567.5	3444.8	3324.5	3326.9	3331.7
30°	3290.8	3266.8	3377.4	3517.0	3690.2	3779.2	3791.2	3615.6	3454.4	3406.3	3418.3
32.5°	3531.4	3560.3	3656.5	3815.3	3942.8	3993.3	3966.8	3810.4	3601.2	3536.2	3543.4
35°	3839.3	3834.5	3966.8	4101.5	4197.7	4207.4	4185.7	3957.2	3759.9	3675.7	3642.1
37.5°	4168.9	4212.2	4298.8	4409.4	4510.5	4515.3	4397.4	4214.6	3971.6	3832.1	3873.0
40°	4536.9	4585.0	4647.6	4808.8	4883.3	4806.4	4686.1	4438.3	4185.7	4063.0	4082.3
42.5°	4861.7	4883.3	5010.8	5200.9	5237.0	5203.3	5025.3	4724.6	4431.1	4296.4	4306.0
45°	5160.0	5188.8	5354.8	5525.6	5609.8	5552.1	5345.2	5058.9	4717.4	4601.9	4556.2
47.5°	5434.2	5491.9	5653.1	5828.7	5958.6	5963.4	5708.5	5362.0	5001.2	4849.7	4847.3
50°	5619.4	5703.6	5862.4	6062.1	6252.1	6326.7	6071.7	5698.8	5311.5	5150.4	5133.5
52.5°	5720.5	5807.1	5965.8	6276.2	6487.9	6603.3	6483.1	6014.0	5674.8	5506.4	5479.9
55°	5597.8	5655.5	5915.3	6350.7	6677.9	6867.9	6788.6	6449.4	6035.6	5898.5	5922.5
57.5°	5075.8	5196.1	5516.0	6059.7	6673.1	7139.8	7132.6	6860.7	6451.8	6321.9	6326.7
60°	4178.5	4279.5	4674.1	5434.2	6403.7	7250.4	7505.4	7260.1	6918.5	6766.9	6762.1
62.5°	2949.2	3076.7	3533.8	4363.7	5609.8	7096.5	7933.6	7762.8	7375.5	7264.9	7305.8
65°	1650.2	1727.2	2150.6	2901.1	4274.7	6249.7	8010.6	8284.8	7839.8	7671.4	7678.6
67.5°	882.8	911.7	1109.0	1522.7	2614.9	4818.4	7233.6	8585.5	8342.6	8051.5	8005.8
70°	606.2	615.8	666.3	779.4	1236.5	2881.9	5455.9	8049.1	8720.2	8323.3	8400.3
72.5°	512.4	507.6	519.6	531.6	647.1	1289.4	3201.8	6194.4	8231.9	8082.8	8053.9
75°	445.0	442.6	447.4	435.4	449.8	567.7	1416.9	3861.0	6026.0	6726.0	6834.3
77.5°	368.1	370.5	372.9	360.8	356.0	375.3	570.1	1695.9	2966.1	3274.0	3531.4
80°	279.0	283.9	303.1	291.1	271.8	274.2	336.8	567.7	851.6	772.2	796.2
82.5°	190.0	192.4	233.3	218.9	204.5	185.2	216.5	293.5	332.0	252.6	221.3
85°	134.7	132.3	151.6	139.5	129.9	93.8	129.9	166.0	199.7	125.1	113.1
87.5°	31.3	31.3	62.5	50.5	48.1	38.5	50.5	65.0	86.6	55.3	50.5
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°	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3
2.5°	2328.6	2307.0	2307.0	2302.1	2282.9	2278.1	2261.2	2266.1	2254.0	2242.0
5°	2410.4	2381.5	2381.5	2340.6	2302.1	2297.3	2278.1	2278.1	2258.8	2263.7
7.5°	2523.5	2497.0	2453.7	2417.6	2364.7	2343.0	2307.0	2302.1	2297.3	2287.7
10°	2658.2	2624.5	2581.2	2506.6	2463.3	2422.4	2386.3	2335.8	2323.8	2326.2
12.5°	2841.0	2788.1	2694.3	2629.3	2574.0	2521.1	2468.1	2393.6	2376.7	2383.9
15°	2970.9	2903.5	2809.7	2785.7	2711.1	2646.1	2559.5	2475.3	2446.5	2439.3
17.5°	3076.7	3021.4	2966.1	2930.0	2869.9	2790.5	2670.2	2574.0	2509.0	2501.8
20°	3163.3	3091.2	3079.1	3100.8	3026.2	2973.3	2826.6	2708.7	2622.1	2586.0
22.5°	3216.3	3170.6	3204.2	3223.5	3218.7	3129.7	2978.1	2841.0	2732.7	2699.1
25°	3274.0	3221.1	3341.4	3406.3	3423.1	3276.4	3158.5	2978.1	2872.3	2850.6
27.5°	3302.9	3322.1	3461.6	3598.8	3586.7	3473.7	3314.9	3153.7	3069.5	3031.0
30°	3387.1	3418.3	3630.0	3784.0	3786.4	3675.7	3555.5	3372.6	3278.8	3262.0
32.5°	3538.6	3577.1	3803.2	3966.8	3995.7	3911.5	3791.2	3678.1	3581.9	3543.4
35°	3654.1	3752.7	4007.7	4156.9	4233.8	4183.3	4116.0	3998.1	3897.0	3863.4
37.5°	3820.1	3957.2	4202.6	4404.6	4491.2	4486.4	4435.9	4308.4	4224.2	4195.3
40°	4058.2	4195.3	4419.1	4686.1	4847.3	4840.0	4811.2	4712.5	4587.4	4573.0
42.5°	4310.8	4423.9	4714.9	5020.5	5251.4	5227.3	5150.4	5034.9	4948.3	4929.0
45°	4556.2	4731.8	5001.2	5393.3	5566.5	5626.7	5535.2	5338.0	5239.4	5227.3
47.5°	4864.1	5003.6	5340.4	5691.6	5949.0	5958.6	5802.3	5619.4	5439.0	5477.5
50°	5138.3	5323.6	5665.2	6050.0	6358.0	6247.3	6047.6	5819.1	5689.2	5638.7
52.5°	5431.8	5657.9	6054.9	6447.0	6617.8	6507.1	6182.4	5927.4	5730.1	5708.5
55°	5860.0	5977.9	6497.5	6798.2	6853.5	6620.2	6141.5	5780.6	5525.6	5463.1
57.5°	6295.4	6432.5	6887.2	7147.0	7089.3	6557.6	5876.8	5318.7	4984.4	4895.4
60°	6735.6	6904.0	7286.5	7524.7	7226.4	6127.0	5128.7	4409.4	4019.7	3940.3
62.5°	7226.4	7445.3	7786.9	7871.1	6819.8	5275.4	4070.2	3182.6	2788.1	2655.8
65°	7661.8	7885.5	8306.5	7798.9	5956.2	3935.5	2631.7	1818.6	1527.5	1421.7
67.5°	8020.2	8272.8	8479.7	6901.6	4361.3	2304.5	1371.2	957.4	849.2	810.7
70°	8304.1	8725.1	7758.0	5073.4	2492.2	1123.4	740.9	630.3	615.8	606.2
72.5°	8056.3	8001.0	5792.6	2927.6	1092.1	618.2	536.4	519.6	517.2	519.6
75°	6588.9	5876.8	3464.0	1272.6	548.5	447.4	445.0	437.8	449.8	449.8
77.5°	3197.0	2795.3	1448.2	546.1	360.8	351.2	363.2	363.2	363.2	363.2
80°	740.9	820.3	517.2	332.0	262.2	262.2	288.7	291.1	279.0	274.2
82.5°	252.6	336.8	283.9	209.3	173.2	194.9	218.9	223.7	185.2	187.6
85°	125.1	197.3	154.0	120.3	89.0	120.3	141.9	149.1	127.5	122.7
87.5°	57.7	86.6	57.7	40.9	31.3	43.3	40.9	33.7	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)