

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: P478974

Luminaire Tested: **IFLD-S-SA2E-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478974
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

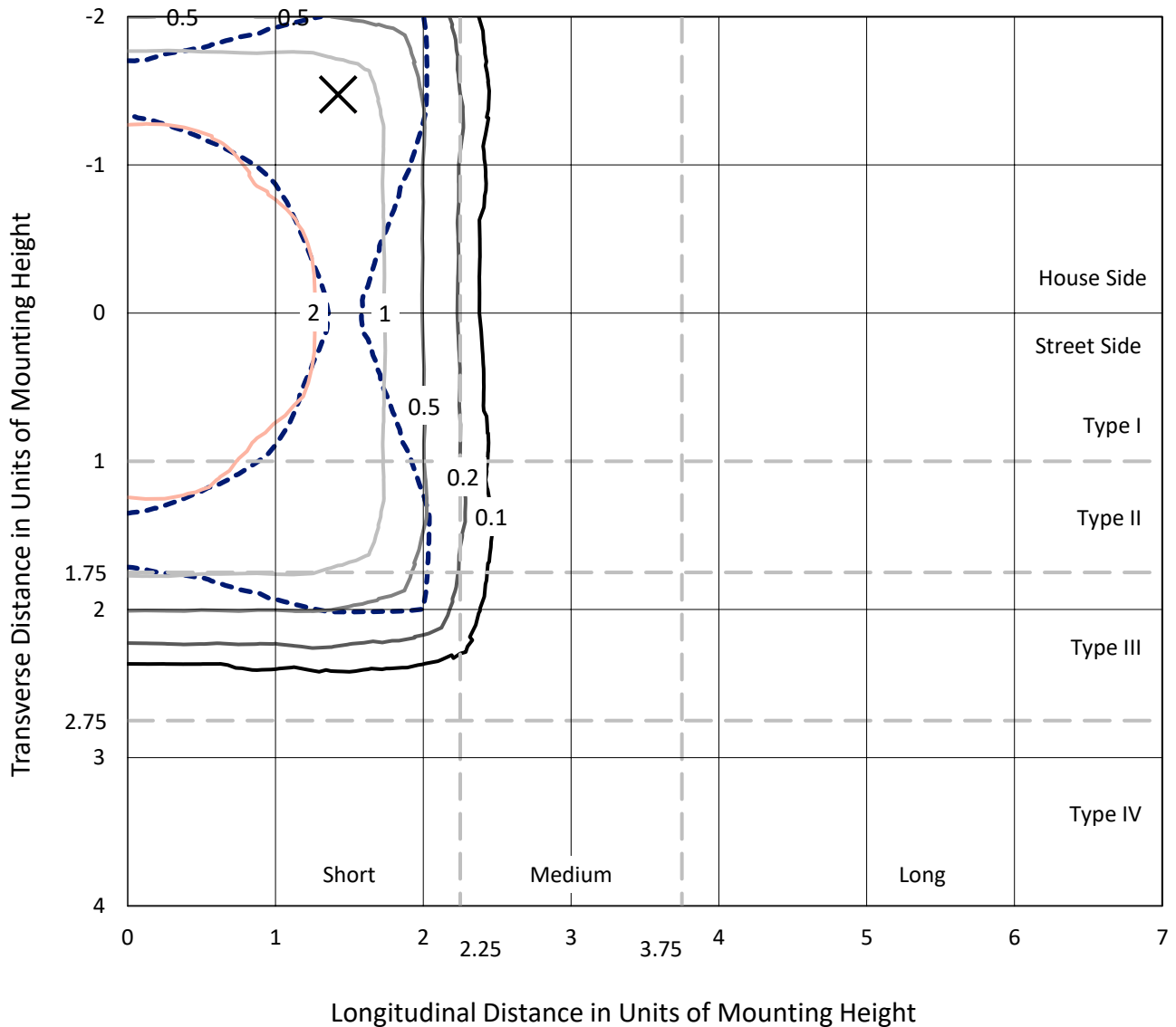
Lumens per Lamp: N/A
Luminaire Lumens: 18465.2 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2
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

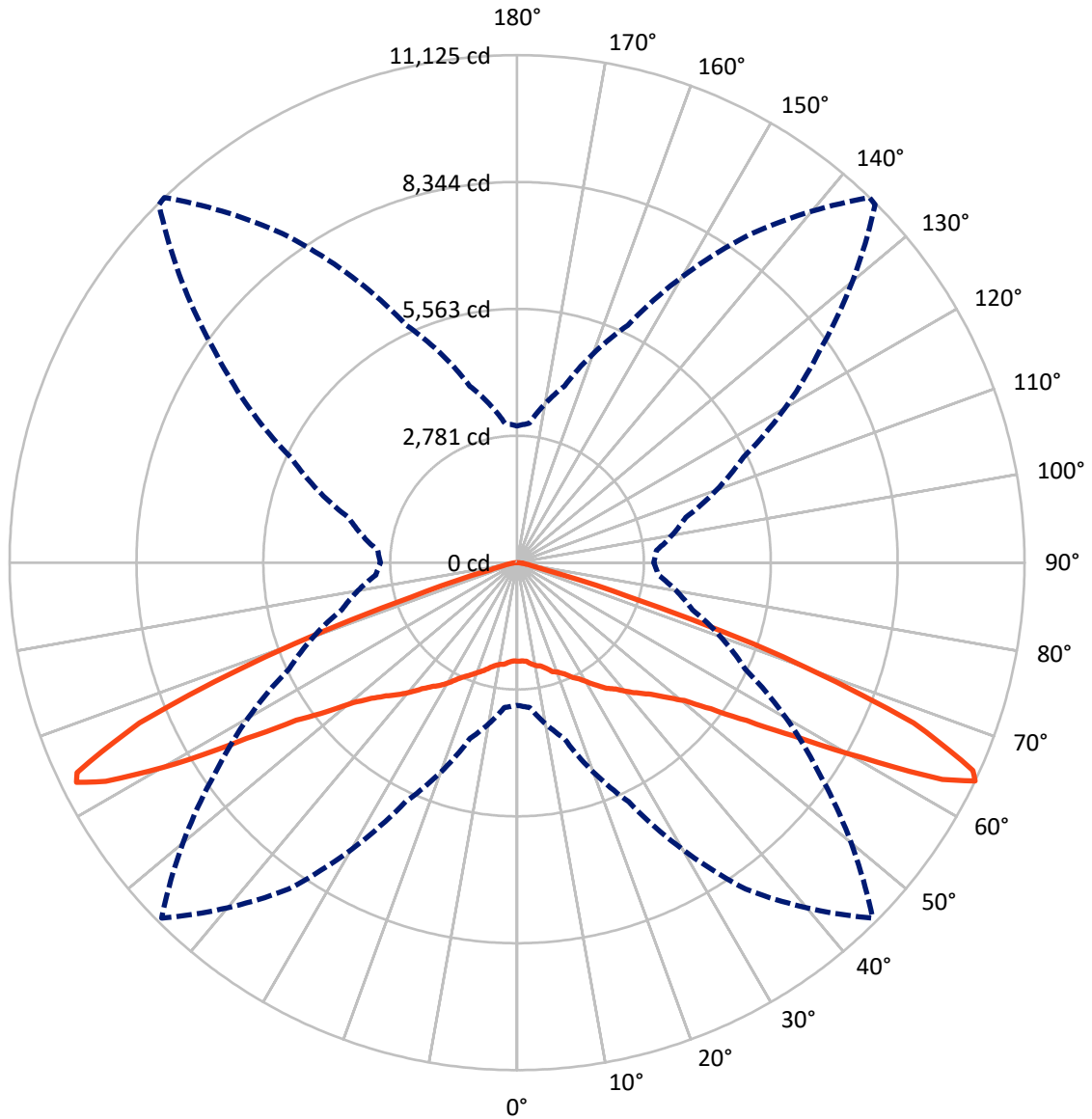
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	9241.4	0.0	9241.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9223.8	0.0	9223.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	18465.2	0.0	18465.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	1.2
10°-20°	684.6	3.7
20°-30°	1286.7	7.0
30°-40°	2122.0	11.5
40°-50°	3318.7	18.0
50°-60°	5362.2	29.0
60°-70°	4828.3	26.1
70°-80°	571.9	3.1
80°-90°	78.3	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°	18465.2	100.0
0°-180°	18465.2	100.0

Coefficient of Utilization



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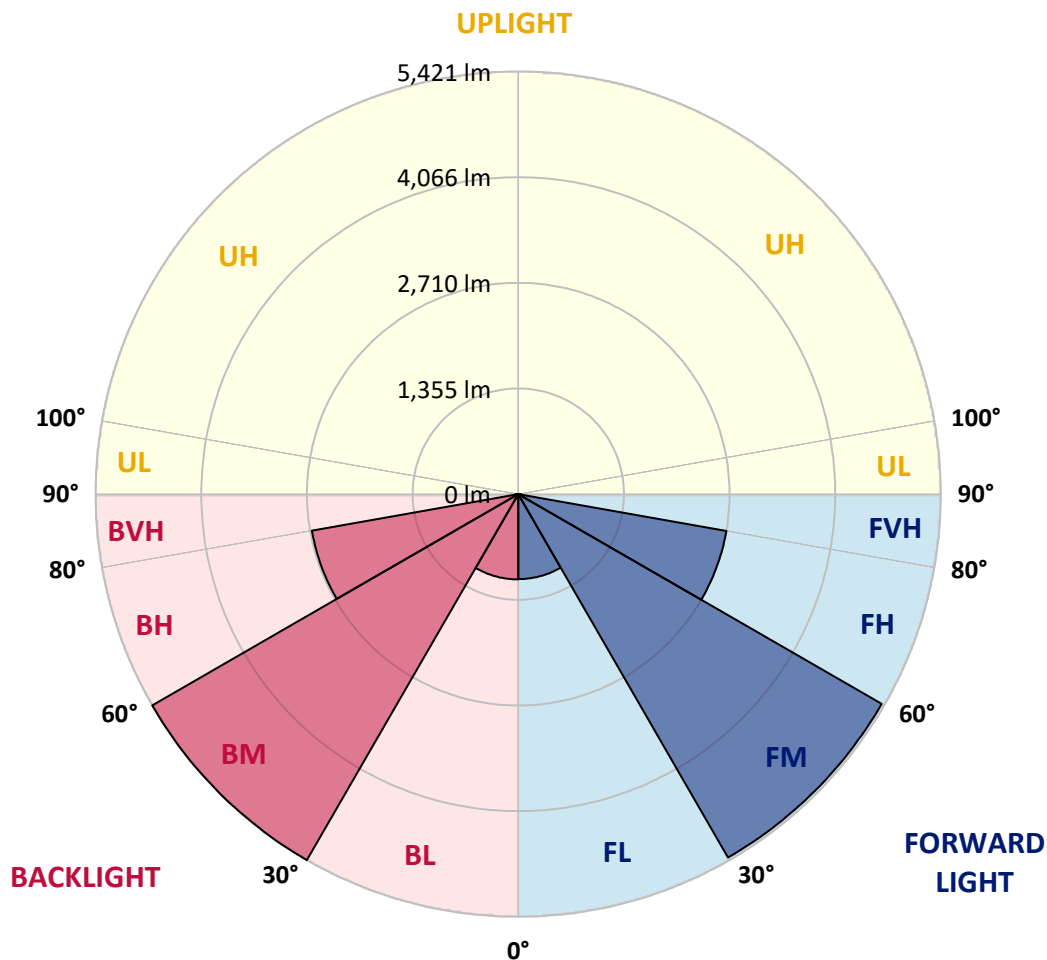
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.8	5.9			
FM (30°-60°)	5382.0	29.1			
FH (60°-80°)	2711.8	14.7			G2/5000
FVH (80°-90°)	40.2	0.2			G1/100
BL (0°-30°)	1094.0	5.9	B3/2500		
BM (30°-60°)	5420.9	29.4	B4/8500		
BH (60°-80°)	2688.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	38.1	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°	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9
2.5°	2136.5	2140.7	2178.8	2164.0	2176.7	2153.4	2170.4	2206.4	2164.0	2195.8	2206.4
5°	2159.8	2166.1	2166.1	2181.0	2189.4	2185.2	2195.8	2181.0	2221.2	2204.2	2229.7
7.5°	2244.5	2233.9	2217.0	2229.7	2231.8	2242.4	2252.9	2272.0	2265.7	2250.8	2276.2
10°	2259.3	2250.8	2276.2	2278.4	2267.8	2259.3	2269.9	2269.9	2288.9	2293.2	2293.2
12.5°	2284.7	2293.2	2291.1	2308.0	2310.1	2303.8	2320.7	2352.5	2344.0	2350.3	2335.5
15°	2382.1	2371.5	2369.4	2386.3	2413.9	2373.6	2403.3	2401.2	2392.7	2405.4	2371.5
17.5°	2466.8	2432.9	2447.8	2475.3	2464.7	2473.2	2511.3	2477.4	2485.9	2471.0	2460.5
20°	2540.9	2513.4	2515.5	2526.1	2526.1	2551.5	2566.3	2553.6	2545.2	2543.0	2547.3
22.5°	2623.5	2591.7	2593.9	2638.3	2653.1	2644.7	2634.1	2655.3	2659.5	2642.6	2661.6
25°	2684.9	2718.8	2729.4	2750.5	2718.8	2742.1	2733.6	2773.8	2799.2	2765.4	2788.7
27.5°	2845.8	2831.0	2858.5	2856.4	2881.8	2858.5	2873.4	2886.1	2896.6	2898.8	2888.2
30°	2989.8	2996.2	2968.6	3042.7	2983.5	3021.6	3047.0	3053.3	3066.0	3066.0	3034.3
32.5°	3142.3	3129.6	3174.0	3157.1	3146.5	3176.1	3148.6	3235.4	3184.6	3214.3	3178.3
35°	3313.8	3313.8	3330.7	3377.3	3313.8	3294.7	3345.5	3381.5	3381.5	3328.6	3341.3
37.5°	3506.5	3489.5	3510.7	3570.0	3521.3	3457.8	3550.9	3565.8	3555.2	3540.3	3514.9
40°	3642.0	3637.7	3680.1	3758.4	3688.6	3675.9	3692.8	3733.0	3745.7	3760.6	3726.7
42.5°	3870.7	3889.7	4012.5	3993.5	3936.3	3891.8	3887.6	4037.9	4001.9	3963.8	3944.8
45°	4209.5	4192.5	4256.0	4258.2	4184.0	4086.6	4107.8	4245.4	4306.9	4222.2	4253.9
47.5°	4478.4	4486.8	4531.3	4622.4	4450.8	4349.2	4427.5	4649.9	4630.8	4599.1	4628.7
50°	4838.3	4876.4	5016.2	4984.4	4832.0	4707.0	4878.6	5088.2	5111.5	4995.0	4973.8
52.5°	5335.9	5395.2	5471.4	5496.9	5350.7	5306.3	5316.9	5577.3	5520.1	5407.9	5335.9
55°	5772.1	5799.6	5939.4	6149.0	6138.4	5924.6	6047.4	6144.8	5911.9	5681.1	5700.1
57.5°	5958.5	5971.2	6360.8	6780.0	7029.9	7078.6	6938.8	6610.6	6055.9	5611.2	5583.7
60°	5494.7	5615.4	6085.5	7032.0	8173.3	8736.5	7807.0	6663.6	5719.2	5179.2	5139.0
62.5°	4391.6	4397.9	5096.7	6532.3	8884.7	10360.6	8139.4	6166.0	4821.4	4209.5	4048.5
64°	3127.4	3186.7	3989.2	5782.7	8736.5	11021.2	8099.2	5515.9	3974.4	3106.3	2994.0
65°	2244.5	2327.1	3102.0	5020.4	8389.3	10942.9	7978.5	4956.9	3214.3	2371.5	2257.2
67.5°	825.8	859.7	1217.5	2511.3	6024.1	9325.2	6322.6	2725.1	1412.3	1005.8	904.1
70°	383.3	385.4	451.0	830.0	2634.1	6235.8	3017.3	1022.7	531.5	421.4	391.7
72.5°	281.6	288.0	315.5	383.3	775.0	2640.4	991.0	419.3	311.3	275.3	268.9
75°	228.7	232.9	241.4	277.4	357.8	707.2	402.3	290.1	247.7	222.3	213.9
77.5°	175.7	175.7	194.8	211.7	237.2	330.3	266.8	230.8	201.2	175.7	169.4
80°	127.0	129.2	152.5	165.2	160.9	218.1	192.7	190.6	165.2	137.6	127.0
82.5°	74.1	80.5	110.1	118.6	114.3	129.2	139.8	148.2	129.2	95.3	86.8
85°	42.3	44.5	63.5	65.6	65.6	61.4	80.5	88.9	86.8	59.3	52.9
87.5°	12.7	12.7	16.9	16.9	19.1	21.2	31.8	38.1	42.3	29.6	27.5
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°	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9	2161.9
2.5°	2195.8	2164.0	2166.1	2174.6	2147.1	2157.7	2189.4	2166.1	2159.8	2147.1	2140.7
5°	2185.2	2219.1	2206.4	2210.6	2204.2	2174.6	2170.4	2189.4	2200.0	2181.0	2219.1
7.5°	2259.3	2244.5	2227.5	2233.9	2219.1	2244.5	2261.4	2223.3	2242.4	2231.8	2210.6
10°	2301.6	2274.1	2286.8	2282.6	2272.0	2297.4	2280.5	2276.2	2259.3	2236.0	2269.9
12.5°	2316.5	2348.2	2369.4	2333.4	2339.8	2327.1	2316.5	2316.5	2297.4	2291.1	2297.4
15°	2382.1	2409.6	2401.2	2428.7	2392.7	2405.4	2418.1	2386.3	2403.3	2356.7	2392.7
17.5°	2502.8	2479.5	2509.2	2473.2	2485.9	2511.3	2471.0	2471.0	2483.7	2458.3	2426.6
20°	2579.0	2568.4	2557.9	2560.0	2538.8	2562.1	2549.4	2543.0	2524.0	2532.4	2549.4
22.5°	2651.0	2636.2	2640.4	2646.8	2661.6	2651.0	2644.7	2651.0	2604.4	2646.8	2587.5
25°	2740.0	2780.2	2767.5	2795.0	2752.7	2780.2	2778.1	2737.8	2763.2	2746.3	2733.6
27.5°	2888.2	2867.0	2886.1	2852.2	2881.8	2883.9	2858.5	2926.3	2896.6	2892.4	2883.9
30°	3078.7	3063.9	3051.2	3032.2	3055.5	3036.4	3057.6	3063.9	3036.4	3015.2	2975.0
32.5°	3186.7	3227.0	3241.8	3195.2	3197.3	3207.9	3188.9	3169.8	3186.7	3193.1	3186.7
35°	3339.2	3377.3	3385.8	3349.8	3330.7	3383.7	3345.5	3409.1	3354.0	3356.1	3299.0
37.5°	3517.1	3527.6	3599.6	3559.4	3542.5	3517.1	3586.9	3578.5	3591.2	3489.5	3540.3
40°	3718.2	3756.3	3796.6	3694.9	3692.8	3716.1	3711.9	3760.6	3737.3	3722.4	3686.4
42.5°	3938.4	4018.9	4025.2	3957.5	3915.1	3910.9	3932.1	4040.1	4042.2	3944.8	3902.4
45°	4230.6	4319.6	4296.3	4165.0	4118.4	4112.1	4215.8	4262.4	4302.6	4264.5	4228.5
47.5°	4594.8	4654.1	4637.2	4516.5	4366.1	4408.5	4510.1	4656.2	4613.9	4563.1	4520.7
50°	4984.4	5054.3	5018.3	4897.6	4753.6	4753.6	4878.6	5064.9	5052.2	4952.7	4914.6
52.5°	5416.4	5518.0	5600.6	5429.1	5308.4	5327.5	5524.4	5592.1	5560.4	5490.5	5458.7
55°	5738.2	5933.0	6102.4	6110.9	6117.3	6115.1	6166.0	6233.7	6007.2	5894.9	5780.6
57.5°	5659.9	6028.3	6608.5	7002.3	7118.8	7180.2	7163.3	6849.9	6314.2	5945.7	5983.9
60°	5100.9	5702.2	6638.1	7902.3	8749.2	8664.5	8355.4	7116.7	6144.8	5522.3	5443.9
62.5°	4069.7	4793.9	6140.5	8156.3	10489.8	10464.3	8846.6	6500.5	5119.9	4332.3	4283.6
64°	3066.0	3828.3	5477.8	8090.7	11099.6	11125.0	8721.7	5742.5	4006.2	3066.0	2991.9
65°	2346.1	3053.3	4827.7	7955.2	10968.3	10983.1	8374.4	4959.0	3044.9	2176.7	2096.3
67.5°	933.8	1300.1	2619.3	6032.6	9418.3	9378.1	5975.4	2399.0	1164.6	758.0	743.2
70°	398.1	495.5	919.0	2858.5	6305.7	6189.3	2572.7	779.2	432.0	362.1	360.0
72.5°	273.1	302.8	393.8	883.0	2621.4	2560.0	732.6	362.1	294.3	271.0	271.0
75°	220.2	241.4	285.9	370.6	694.5	669.1	345.1	266.8	235.0	218.1	216.0
77.5°	171.5	192.7	224.4	256.2	317.6	315.5	230.8	201.2	182.1	169.4	165.2
80°	135.5	156.7	177.9	182.1	207.5	203.3	156.7	158.8	148.2	122.8	120.7
82.5°	93.2	127.0	141.9	129.2	122.8	122.8	112.2	112.2	103.8	76.2	69.9
85°	57.2	84.7	88.9	76.2	57.2	57.2	61.4	59.3	55.1	40.2	38.1
87.5°	29.6	40.2	36.0	29.6	19.1	19.1	16.9	12.7	12.7	10.6	10.6
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)