

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: P478860

Luminaire Tested: **IFLD-S-SA3C-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478860
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

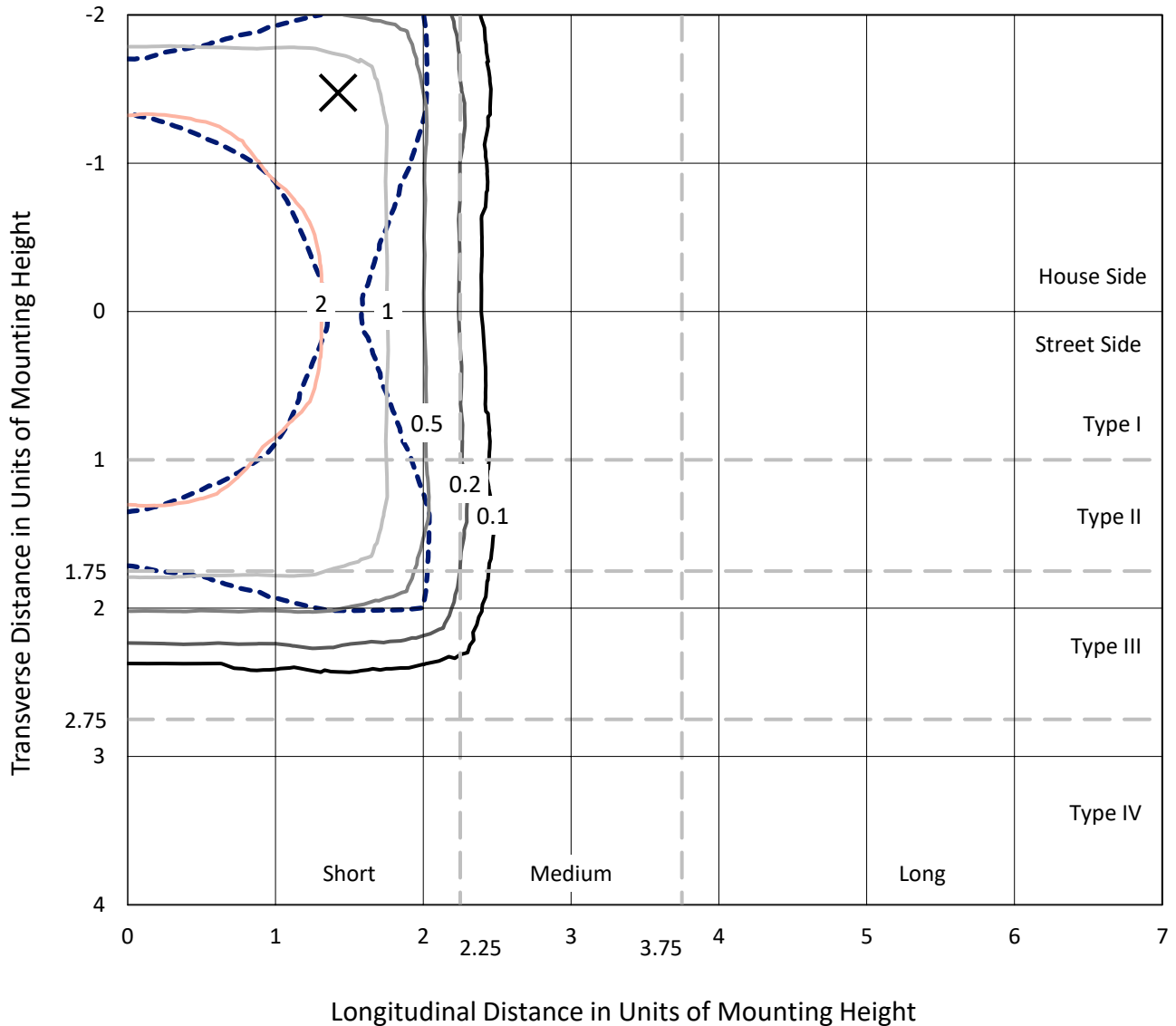
Lumens per Lamp: N/A
Luminaire Lumens: 19237.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

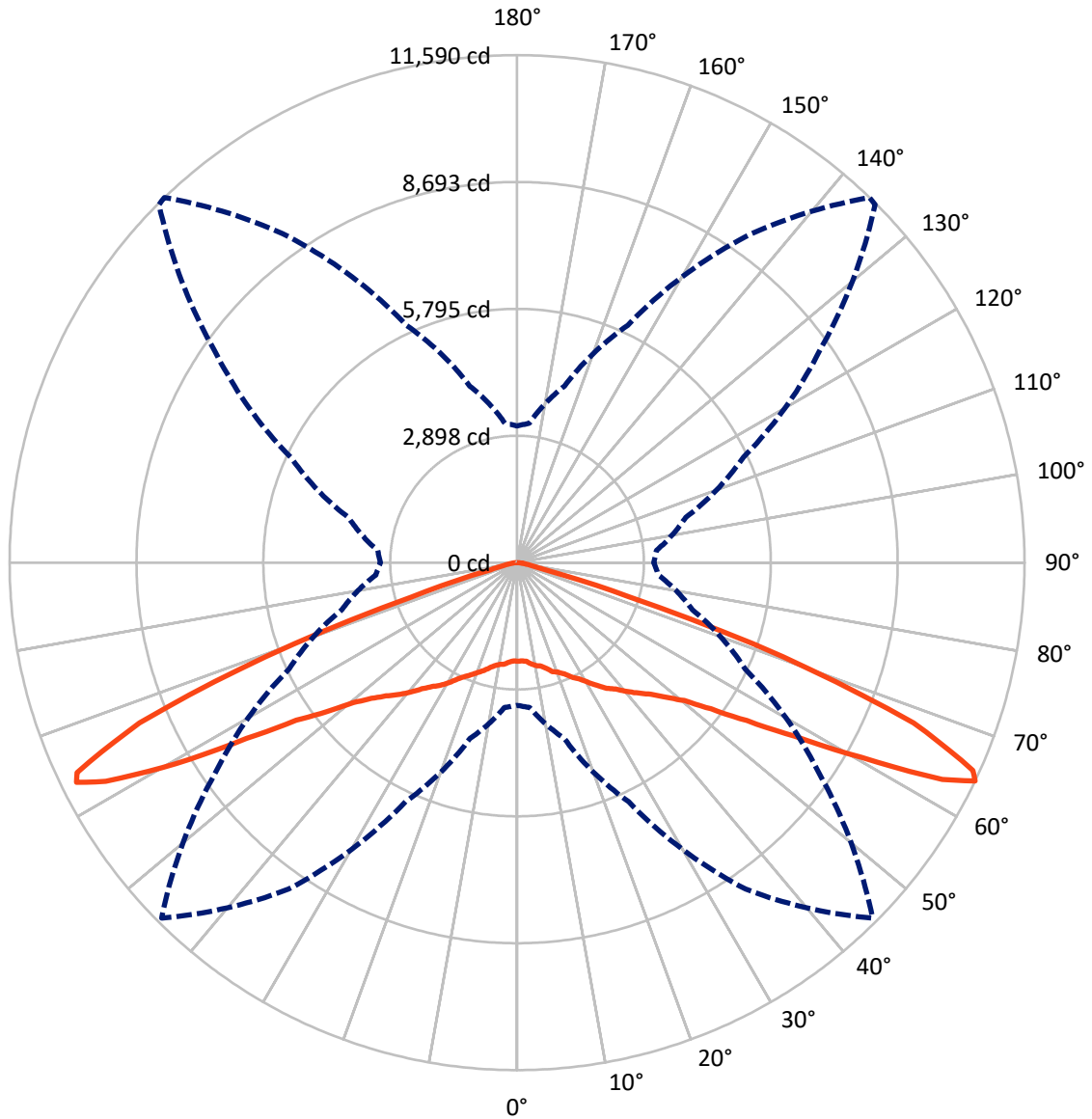
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	9628.0	0.0	9628.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9609.7	0.0	9609.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19237.7	0.0	19237.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	1.2
10°-20°	713.3	3.7
20°-30°	1340.5	7.0
30°-40°	2210.8	11.5
40°-50°	3457.5	18.0
50°-60°	5586.5	29.0
60°-70°	5030.3	26.1
70°-80°	595.9	3.1
80°-90°	81.6	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°	19237.7	100.0
0°-180°	19237.7	100.0

Coefficient of Utilization



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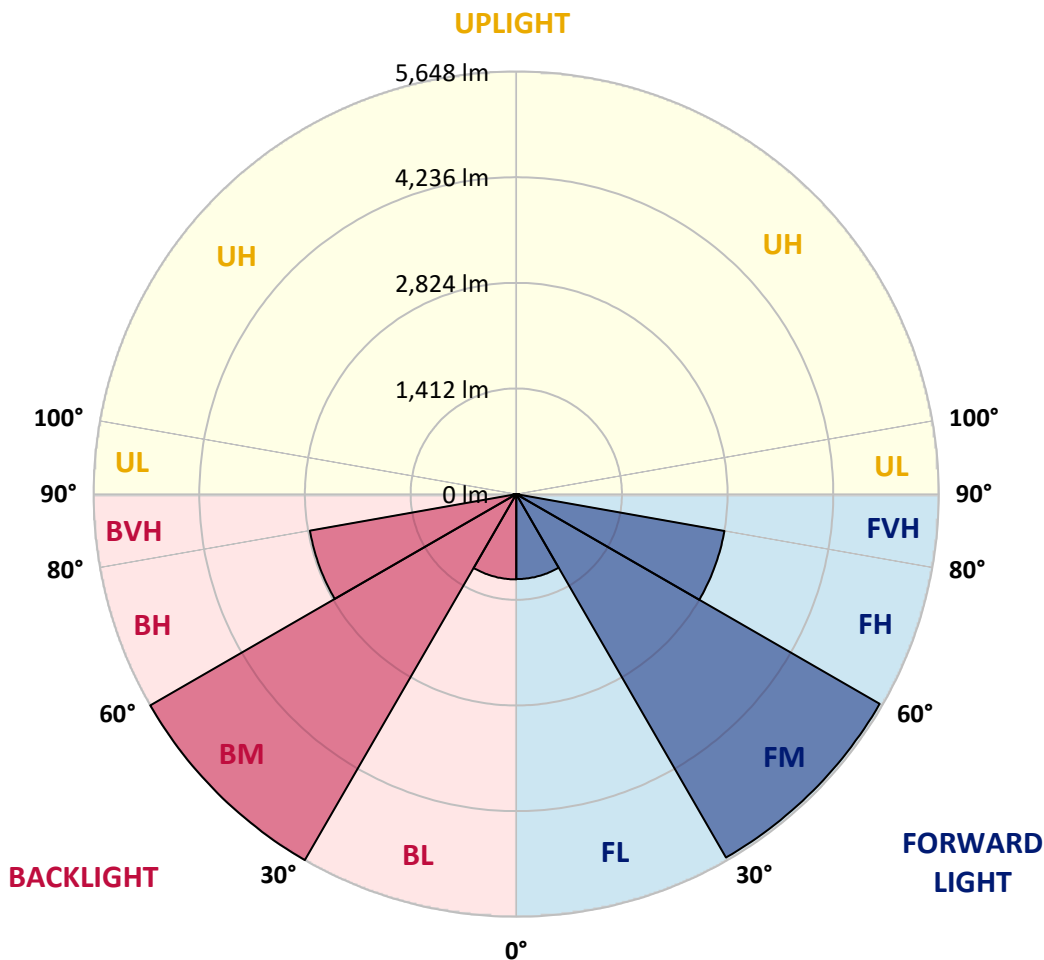
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.4	5.9			
FM (30°-60°)	5607.2	29.1			
FH (60°-80°)	2825.3	14.7			G2/5000
FVH (80°-90°)	41.8	0.2			G1/100
BL (0°-30°)	1139.8	5.9	B3/2500		
BM (30°-60°)	5647.6	29.4	B4/8500		
BH (60°-80°)	2800.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	39.7	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°	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3
2.5°	2225.9	2230.3	2270.0	2254.5	2267.8	2243.5	2261.2	2298.7	2254.5	2287.6	2298.7
5°	2250.1	2256.7	2256.7	2272.2	2281.0	2276.6	2287.6	2272.2	2314.1	2296.5	2322.9
7.5°	2338.4	2327.3	2309.7	2322.9	2325.1	2336.2	2347.2	2367.0	2360.4	2345.0	2371.5
10°	2353.8	2345.0	2371.5	2373.7	2362.6	2353.8	2364.8	2364.8	2384.7	2389.1	2389.1
12.5°	2380.3	2389.1	2386.9	2404.5	2406.8	2400.1	2417.8	2450.9	2442.0	2448.7	2433.2
15°	2481.8	2470.7	2468.5	2486.2	2514.8	2472.9	2503.8	2501.6	2492.8	2506.0	2470.7
17.5°	2570.0	2534.7	2550.1	2578.8	2567.8	2576.6	2616.3	2581.0	2589.9	2574.4	2563.4
20°	2647.2	2618.5	2620.7	2631.8	2631.8	2658.2	2673.7	2660.4	2651.6	2649.4	2653.8
22.5°	2733.2	2700.2	2702.4	2748.7	2764.1	2755.3	2744.3	2766.3	2770.7	2753.1	2773.0
25°	2797.2	2832.5	2843.5	2865.6	2832.5	2856.8	2848.0	2889.9	2916.3	2881.0	2905.3
27.5°	2964.9	2949.4	2978.1	2975.9	3002.4	2978.1	2993.6	3006.8	3017.8	3020.0	3009.0
30°	3114.9	3121.5	3092.8	3170.0	3108.3	3148.0	3174.4	3181.1	3194.3	3194.3	3161.2
32.5°	3273.7	3260.5	3306.8	3289.2	3278.1	3309.0	3280.3	3370.8	3317.8	3348.7	3311.2
35°	3452.4	3452.4	3470.0	3518.6	3452.4	3432.5	3485.5	3523.0	3523.0	3467.8	3481.1
37.5°	3653.1	3635.5	3657.6	3719.3	3668.6	3602.4	3699.5	3714.9	3703.9	3688.4	3662.0
40°	3794.3	3789.9	3834.0	3915.7	3842.9	3829.6	3847.3	3889.2	3902.4	3917.9	3882.6
42.5°	4032.6	4052.4	4180.4	4160.5	4101.0	4054.6	4050.2	4206.9	4169.4	4129.6	4109.8
45°	4385.5	4367.9	4434.1	4436.3	4359.1	4257.6	4279.7	4423.0	4487.0	4398.8	4431.9
47.5°	4665.7	4674.5	4720.9	4815.7	4637.0	4531.1	4612.8	4844.4	4824.5	4791.4	4822.3
50°	5040.7	5080.4	5226.0	5192.9	5034.1	4904.0	5082.6	5301.0	5325.3	5204.0	5181.9
52.5°	5559.1	5620.9	5700.3	5726.8	5574.6	5528.3	5539.3	5810.6	5751.1	5634.1	5559.1
55°	6013.6	6042.3	6187.8	6406.2	6395.2	6172.4	6300.4	6401.8	6159.2	5918.7	5938.6
57.5°	6207.7	6220.9	6626.8	7063.6	7323.9	7374.7	7229.1	6887.2	6309.2	5845.9	5817.2
60°	5724.6	5850.3	6340.1	7326.1	8515.2	9102.0	8133.5	6942.3	5958.4	5395.9	5354.0
62.5°	4575.3	4581.9	5309.9	6805.5	9256.4	10794.0	8479.9	6423.9	5023.1	4385.5	4217.9
64°	3258.3	3320.0	4156.1	6024.6	9102.0	11482.3	8438.0	5746.6	4140.7	3236.2	3119.3
65°	2338.4	2424.4	3231.8	5230.4	8740.2	11400.6	8312.2	5164.3	3348.7	2470.7	2351.6
67.5°	860.3	895.6	1268.5	2616.3	6276.1	9715.3	6587.1	2839.1	1471.4	1047.9	942.0
70°	399.3	401.5	469.9	864.8	2744.3	6496.7	3143.6	1065.5	553.7	439.0	408.1
72.5°	293.4	300.0	328.7	399.3	807.4	2750.9	1032.4	436.8	324.3	286.8	280.2
75°	238.2	242.7	251.5	289.0	372.8	736.8	419.1	302.2	258.1	231.6	222.8
77.5°	183.1	183.1	203.0	220.6	247.1	344.1	278.0	240.5	209.6	183.1	176.5
80°	132.4	134.6	158.8	172.1	167.7	227.2	200.7	198.5	172.1	143.4	132.4
82.5°	77.2	83.8	114.7	123.5	119.1	134.6	145.6	154.4	134.6	99.3	90.4
85°	44.1	46.3	66.2	68.4	68.4	64.0	83.8	92.7	90.4	61.8	55.2
87.5°	13.2	13.2	17.6	17.6	19.9	22.1	33.1	39.7	44.1	30.9	28.7
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°	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3	2252.3
2.5°	2287.6	2254.5	2256.7	2265.6	2236.9	2247.9	2281.0	2256.7	2250.1	2236.9	2230.3
5°	2276.6	2311.9	2298.7	2303.1	2296.5	2265.6	2261.2	2281.0	2292.0	2272.2	2311.9
7.5°	2353.8	2338.4	2320.7	2327.3	2311.9	2338.4	2356.0	2316.3	2336.2	2325.1	2303.1
10°	2397.9	2369.3	2382.5	2378.1	2367.0	2393.5	2375.9	2371.5	2353.8	2329.5	2364.8
12.5°	2413.4	2446.5	2468.5	2431.0	2437.6	2424.4	2413.4	2413.4	2393.5	2386.9	2393.5
15°	2481.8	2510.4	2501.6	2530.3	2492.8	2506.0	2519.3	2486.2	2503.8	2455.3	2492.8
17.5°	2607.5	2583.2	2614.1	2576.6	2589.9	2616.3	2574.4	2574.4	2587.6	2561.2	2528.1
20°	2686.9	2675.9	2664.9	2667.1	2645.0	2669.3	2656.0	2649.4	2629.6	2638.4	2656.0
22.5°	2761.9	2746.5	2750.9	2757.5	2773.0	2761.9	2755.3	2761.9	2713.4	2757.5	2695.7
25°	2854.6	2896.5	2883.3	2911.9	2867.8	2896.5	2894.3	2852.4	2878.8	2861.2	2848.0
27.5°	3009.0	2986.9	3006.8	2971.5	3002.4	3004.6	2978.1	3048.7	3017.8	3013.4	3004.6
30°	3207.5	3192.1	3178.9	3159.0	3183.3	3163.4	3185.5	3192.1	3163.4	3141.4	3099.4
32.5°	3320.0	3362.0	3377.4	3328.9	3331.1	3342.1	3322.2	3302.4	3320.0	3326.7	3320.0
35°	3478.9	3518.6	3527.4	3489.9	3470.0	3525.2	3485.5	3551.7	3494.3	3496.5	3437.0
37.5°	3664.2	3675.2	3750.2	3708.3	3690.6	3664.2	3737.0	3728.2	3741.4	3635.5	3688.4
40°	3873.7	3913.5	3955.4	3849.5	3847.3	3871.5	3867.1	3917.9	3893.6	3878.2	3840.7
42.5°	4103.2	4187.0	4193.6	4123.0	4078.9	4074.5	4096.6	4209.1	4211.3	4109.8	4065.7
45°	4407.6	4500.3	4476.0	4339.2	4290.7	4284.1	4392.2	4440.7	4482.6	4442.9	4405.4
47.5°	4787.0	4848.8	4831.2	4705.4	4548.8	4592.9	4698.8	4851.0	4806.9	4753.9	4709.8
50°	5192.9	5265.7	5228.2	5102.5	4952.5	4952.5	5082.6	5276.8	5263.5	5159.8	5120.1
52.5°	5643.0	5748.9	5834.9	5656.2	5530.5	5550.3	5755.5	5826.1	5793.0	5720.2	5687.1
55°	5978.3	6181.2	6357.7	6366.5	6373.2	6370.9	6423.9	6494.5	6258.4	6141.5	6022.4
57.5°	5896.7	6280.5	6884.9	7295.3	7416.6	7480.6	7462.9	7136.4	6578.3	6194.5	6234.2
60°	5314.3	5940.8	6915.8	8232.8	9115.2	9027.0	8704.9	7414.4	6401.8	5753.3	5671.6
62.5°	4239.9	4994.4	6397.4	8497.5	10928.6	10902.1	9216.7	6772.4	5334.1	4513.5	4462.8
64°	3194.3	3988.5	5706.9	8429.2	11563.9	11590.4	9086.5	5982.7	4173.8	3194.3	3117.1
65°	2444.3	3181.1	5029.7	8288.0	11427.1	11442.6	8724.8	5166.5	3172.2	2267.8	2183.9
67.5°	972.8	1354.5	2728.8	6284.9	9812.3	9770.4	6225.4	2499.4	1213.3	789.8	774.3
70°	414.7	516.2	957.4	2978.1	6569.5	6448.2	2680.3	811.8	450.0	377.2	375.0
72.5°	284.6	315.5	410.3	919.9	2731.0	2667.1	763.3	377.2	306.6	282.4	282.4
75°	229.4	251.5	297.8	386.1	723.6	697.1	359.6	278.0	244.9	227.2	225.0
77.5°	178.7	200.7	233.8	266.9	330.9	328.7	240.5	209.6	189.7	176.5	172.1
80°	141.2	163.2	185.3	189.7	216.2	211.8	163.2	165.5	154.4	127.9	125.7
82.5°	97.1	132.4	147.8	134.6	127.9	127.9	116.9	116.9	108.1	79.4	72.8
85°	59.6	88.2	92.7	79.4	59.6	59.6	64.0	61.8	57.4	41.9	39.7
87.5°	30.9	41.9	37.5	30.9	19.9	19.9	17.6	13.2	13.2	11.0	11.0
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)