

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: P480848

Luminaire Tested: **IFLD-S-SA3B-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480848
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

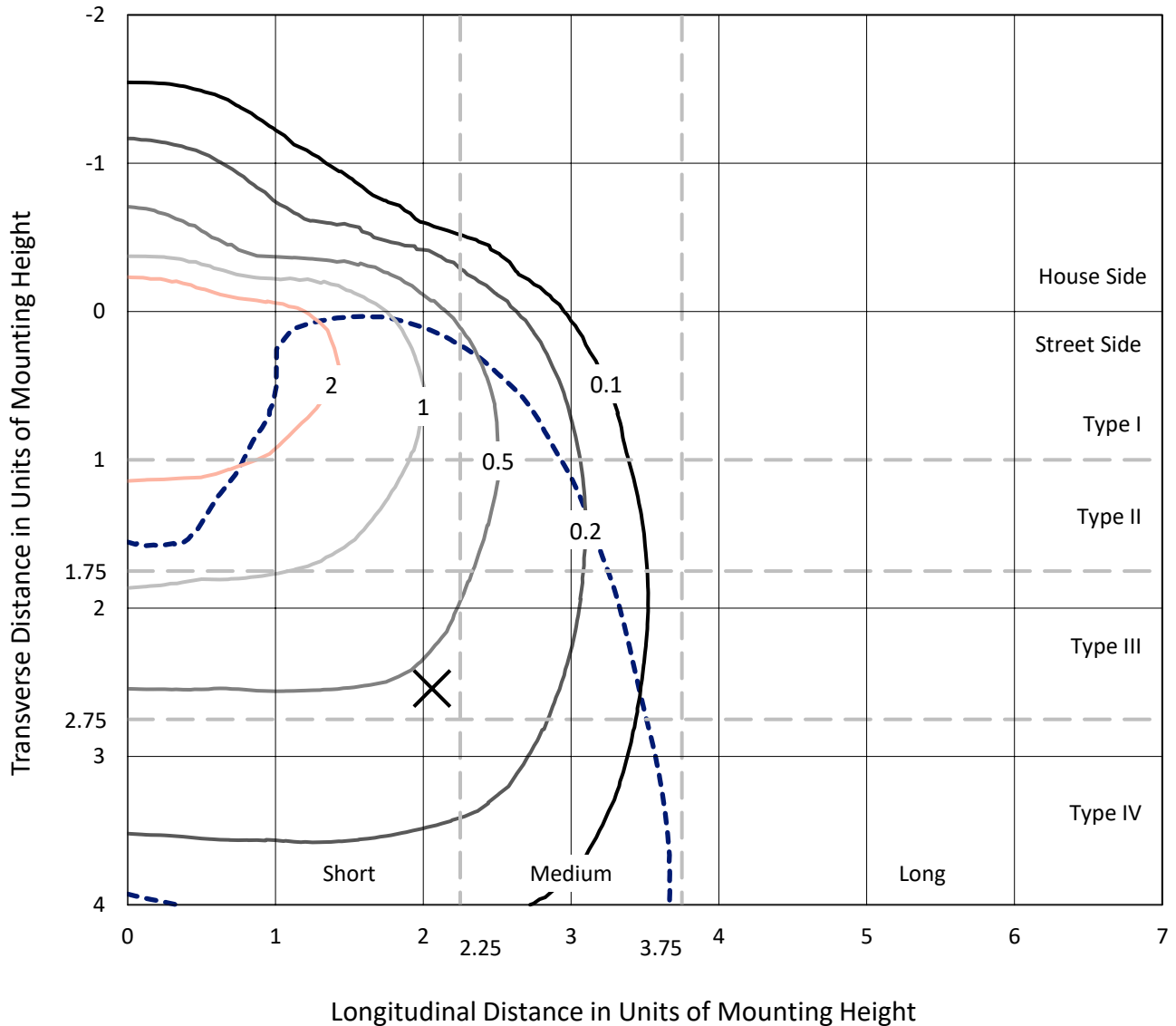
Lumens per Lamp: N/A
Luminaire Lumens: 16233.6 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 122.4
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

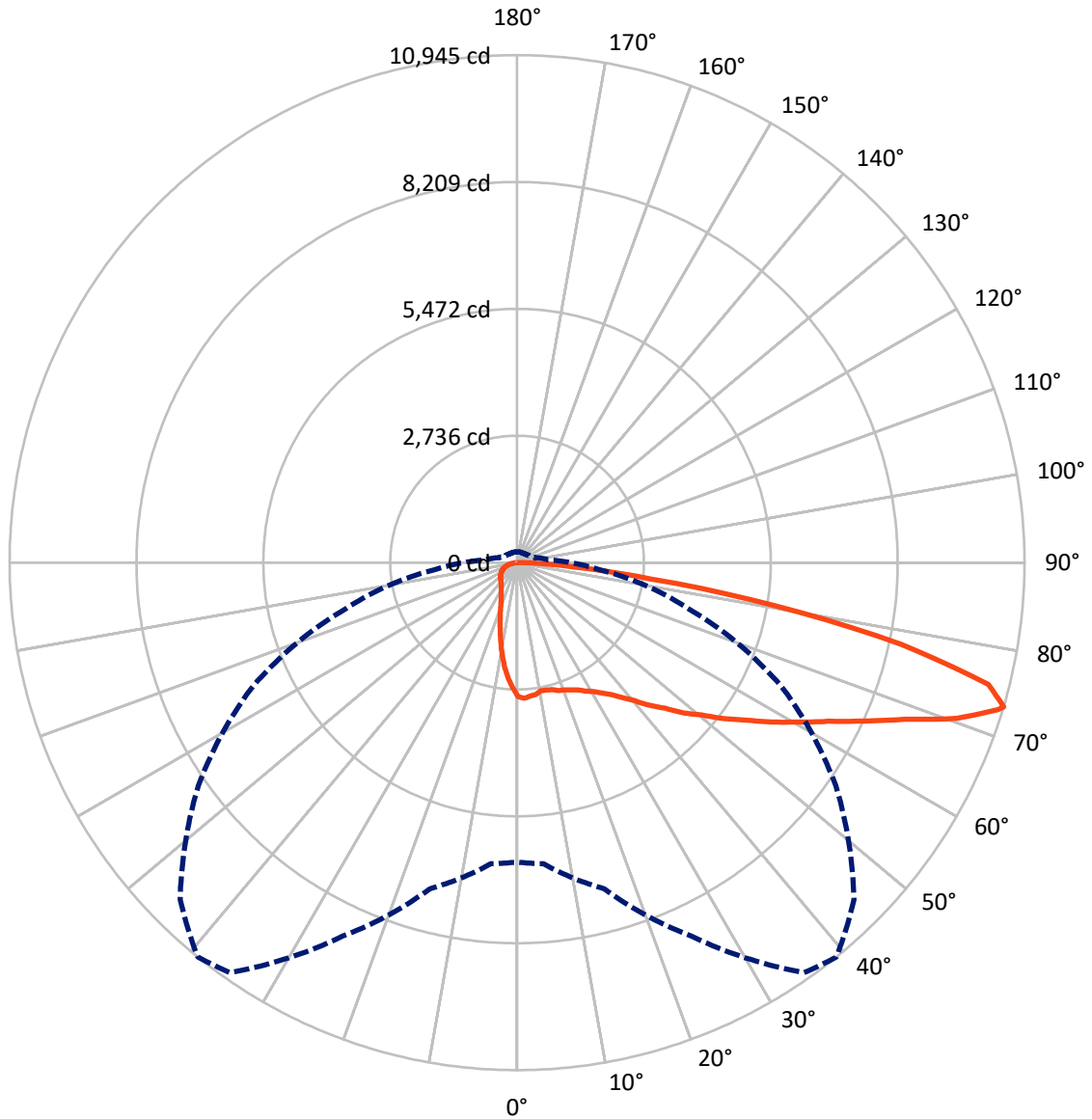
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2282.0	0.0	2282.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13951.6	0.0	13951.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	16233.6	0.0	16233.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.8	1.5
10°-20°	637.7	3.9
20°-30°	974.5	6.0
30°-40°	1420.8	8.8
40°-50°	2147.0	13.2
50°-60°	3108.9	19.2
60°-70°	3950.0	24.3
70°-80°	3202.1	19.7
80°-90°	541.8	3.3
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°	16233.6	100.0
0°-180°	16233.6	100.0

Coefficient of Utilization



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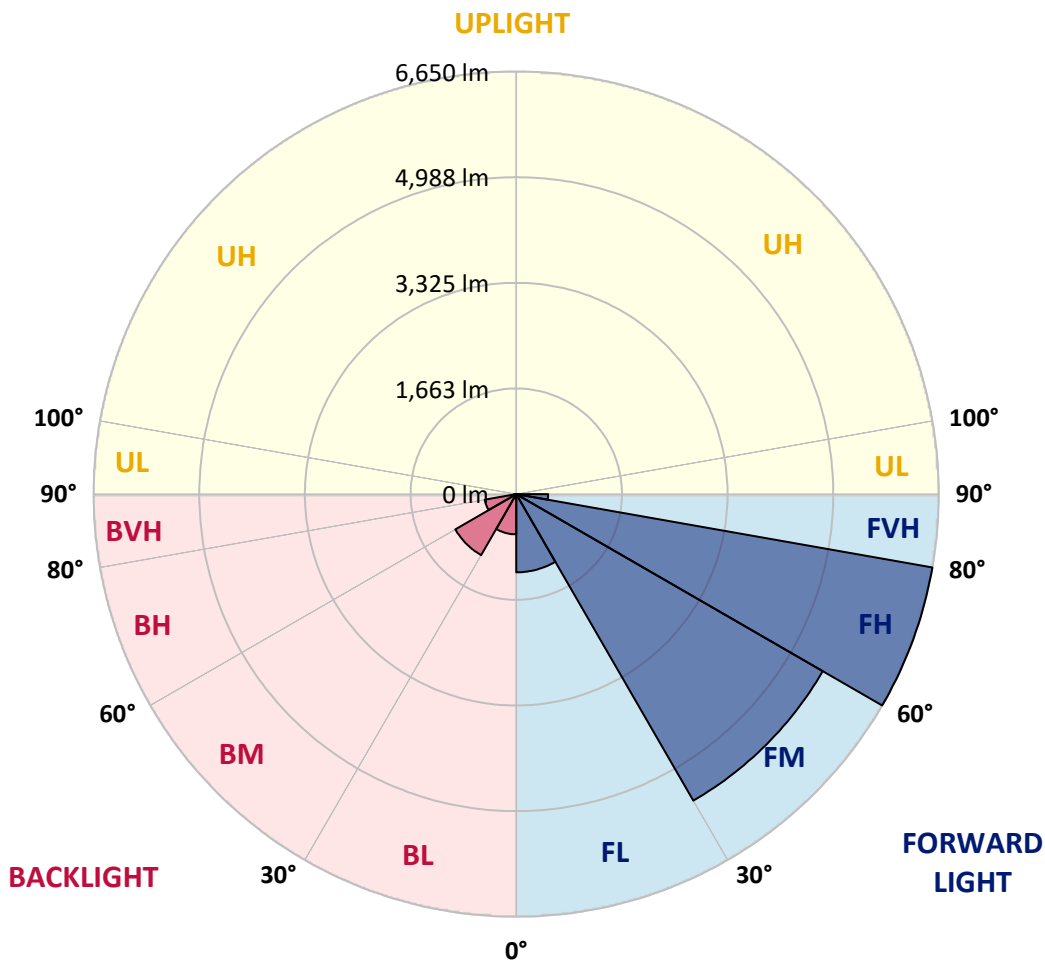
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1230.2	7.6			
FM	(30°-60°)	5569.2	34.3			
FH	(60°-80°)	6650.3	41.0			G3/7500
FVH	(80°-90°)	502.0	3.1			G4/750
BL	(0°-30°)	632.8	3.9	B2/1000		
BM	(30°-60°)	1107.5	6.8	B2/2500		
BH	(60°-80°)	501.9	3.1	B2/1000		G2/1000
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: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7
2.5°	2958.7	2927.8	2933.3	2922.4	2933.3	2929.6	2924.2	2896.9	2924.2	2896.9	2889.7
5°	2918.7	2918.7	2936.9	2909.7	2913.3	2895.1	2913.3	2893.3	2875.2	2829.7	2817.0
7.5°	2906.0	2904.2	2906.0	2867.9	2886.0	2875.2	2857.0	2835.2	2798.9	2769.8	2728.0
10°	2818.8	2837.0	2817.0	2827.9	2842.5	2809.8	2808.0	2802.5	2786.2	2748.0	2722.6
12.5°	2771.6	2802.5	2813.4	2804.3	2817.0	2820.7	2809.8	2802.5	2782.5	2757.1	2684.4
15°	2791.6	2755.3	2786.2	2846.1	2833.4	2842.5	2844.3	2837.0	2827.9	2780.7	2733.5
17.5°	2797.1	2775.3	2840.6	2853.4	2869.7	2902.4	2880.6	2878.8	2844.3	2811.6	2742.6
20°	2809.8	2800.7	2853.4	2920.6	2922.4	2927.8	2938.7	2911.5	2893.3	2837.0	2731.7
22.5°	2857.0	2887.9	2936.9	2966.0	2982.3	2985.9	2985.9	2931.5	2911.5	2866.1	2782.5
25°	2998.7	2966.0	3035.0	3069.5	3045.9	3040.4	3027.7	2978.7	2956.9	2916.9	2806.1
27.5°	3102.2	3100.4	3140.3	3187.6	3124.0	3136.7	3091.3	3076.8	3027.7	3005.9	2847.9
30°	3243.9	3283.8	3282.0	3296.5	3213.0	3227.5	3169.4	3142.1	3114.9	3127.6	2971.4
32.5°	3425.5	3411.0	3434.6	3423.7	3340.1	3352.8	3283.8	3242.0	3251.1	3289.3	3140.3
35°	3541.7	3527.2	3536.3	3536.3	3510.8	3496.3	3467.3	3412.8	3456.4	3527.2	3329.2
37.5°	3667.0	3685.2	3737.9	3727.0	3694.3	3694.3	3690.7	3652.5	3708.8	3883.2	3630.7
40°	3777.8	3826.9	3859.6	3881.4	3919.5	3919.5	3950.4	3928.6	4030.3	4310.0	3999.4
42.5°	3894.1	3895.9	4073.9	4090.2	4175.6	4211.9	4235.5	4253.7	4444.4	4756.8	4393.6
45°	4043.0	4052.1	4208.3	4333.6	4466.2	4478.9	4567.9	4627.9	4862.1	5245.4	4822.2
47.5°	4239.2	4228.3	4395.4	4595.2	4760.4	4847.6	4954.8	5020.2	5309.0	5775.7	5290.8
50°	4497.1	4464.4	4560.6	4874.9	5069.2	5165.5	5356.2	5465.1	5803.0	6282.5	5612.3
52.5°	4811.3	4756.8	4833.1	5176.4	5394.3	5588.7	5770.3	5892.0	6244.3	6674.8	5850.2
55°	5143.7	5031.1	5052.9	5496.0	5810.2	5993.7	6242.5	6369.7	6729.3	7027.1	6088.1
57.5°	5472.4	5401.6	5358.0	5803.0	6306.1	6482.3	6711.1	6876.4	7181.5	7339.5	6289.7
60°	5748.5	5730.3	5659.5	6278.8	6831.0	6981.7	7221.5	7323.2	7553.9	7628.3	6293.4
62.5°	5975.5	5913.8	6026.4	6662.1	7365.0	7535.7	7799.1	7808.1	7971.6	7808.1	6108.1
65°	6153.5	6157.1	6337.0	7125.2	7982.5	8235.0	8447.5	8423.9	8318.5	7701.0	5670.4
67.5°	6315.2	6384.2	6647.5	7633.8	8776.2	9014.1	9250.3	8937.9	8413.0	7199.7	4814.9
70°	6442.3	6511.3	7067.1	8253.1	9711.6	10060.3	10113.0	9141.3	7978.9	6099.0	3632.5
72.5°	6427.8	6553.1	7305.0	8747.1	10541.6	10843.1	10418.1	8569.2	6647.5	4251.9	2119.6
73°	6458.6	6520.4	7285.1	8885.2	10794.1	10944.8	10276.4	8389.3	6269.8	3814.2	1792.7
75°	5862.9	6071.8	6923.6	8660.0	10523.5	10496.2	9462.8	6990.8	4457.1	2003.3	868.2
77.5°	4337.2	4469.8	5456.1	7121.6	8638.2	8463.8	7137.9	4468.0	2116.0	742.9	468.6
80°	2119.6	2223.1	2891.5	4112.0	5648.6	5663.1	4429.9	2324.8	906.3	419.6	319.7
82.5°	1058.9	1120.6	1389.4	1807.2	2778.9	2911.5	2246.7	1322.2	561.2	237.9	181.6
85°	692.0	735.6	855.5	884.5	1178.8	1244.1	1046.2	1031.6	365.1	129.0	147.1
87.5°	459.5	466.8	524.9	446.8	472.2	454.1	504.9	650.2	107.2	54.5	40.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7
2.5°	2880.6	2855.2	2827.9	2789.8	2762.5	2720.8	2682.6	2666.3	2662.6	2664.5	2646.3
5°	2806.1	2769.8	2715.3	2637.2	2591.8	2522.8	2464.7	2433.8	2401.1	2406.6	2392.0
7.5°	2702.6	2662.6	2579.1	2488.3	2375.7	2277.6	2223.1	2146.8	2103.2	2070.5	2088.7
10°	2669.9	2600.9	2475.6	2350.3	2175.9	2046.9	1921.6	1834.4	1774.5	1716.4	1741.8
12.5°	2653.6	2584.5	2410.2	2224.9	1999.7	1803.6	1627.4	1520.2	1434.9	1384.0	1404.0
15°	2639.0	2553.7	2348.4	2086.9	1834.4	1576.5	1378.5	1236.9	1155.1	1106.1	1111.6
17.5°	2659.0	2537.3	2257.6	1952.5	1652.8	1376.7	1157.0	1009.8	926.3	895.4	888.2
20°	2639.0	2519.2	2168.6	1818.1	1471.2	1186.0	975.3	853.6	795.5	770.1	764.6
22.5°	2646.3	2475.6	2076.0	1669.2	1302.3	1026.2	853.6	761.0	715.6	702.9	706.5
25°	2680.8	2450.1	1983.4	1505.7	1135.2	908.1	775.5	704.7	672.0	659.3	662.9
27.5°	2706.2	2471.9	1899.8	1351.3	993.5	802.8	710.2	662.9	641.1	632.1	630.2
30°	2769.8	2484.7	1818.1	1213.3	877.3	733.8	664.8	626.6	612.1	606.6	604.8
32.5°	2864.3	2508.3	1723.6	1086.1	791.9	668.4	628.4	595.7	592.1	586.7	588.5
35°	3018.6	2590.0	1618.3	977.2	710.2	624.8	590.3	568.5	568.5	568.5	573.9
37.5°	3240.2	2704.4	1523.8	873.6	657.5	586.7	557.6	550.3	546.7	552.1	555.8
40°	3525.4	2842.5	1447.6	791.9	612.1	561.2	535.8	532.2	530.4	528.5	532.2
42.5°	3837.8	3018.6	1382.2	728.3	579.4	534.0	515.8	512.2	504.9	508.6	514.0
45°	4148.4	3236.6	1324.1	677.5	557.6	519.5	494.0	492.2	488.6	486.8	495.8
47.5°	4493.4	3450.9	1305.9	646.6	541.2	497.7	479.5	477.7	466.8	465.0	472.2
50°	4762.3	3608.9	1325.9	632.1	517.6	481.3	468.6	459.5	450.4	441.4	441.4
52.5°	4947.5	3717.9	1340.4	621.2	504.9	459.5	443.2	439.5	430.5	421.4	417.7
55°	5114.6	3783.3	1344.0	623.0	492.2	434.1	423.2	421.4	415.9	401.4	397.8
57.5°	5170.9	3756.0	1271.4	606.6	484.9	417.7	403.2	406.8	399.6	386.9	385.0
60°	5165.5	3567.2	1106.1	584.8	468.6	399.6	381.4	392.3	392.3	377.8	376.0
62.5°	4851.3	3131.2	904.5	543.1	450.4	381.4	361.4	377.8	383.2	374.2	372.3
65°	4199.2	2550.0	755.6	501.3	423.2	361.4	341.5	359.6	368.7	365.1	363.3
67.5°	3474.5	1950.7	628.4	446.8	388.7	334.2	317.8	330.6	336.0	337.8	339.6
70°	2455.6	1298.6	524.9	386.9	341.5	305.1	287.0	288.8	287.0	292.4	292.4
72.5°	1335.0	748.3	426.8	328.7	294.2	265.2	252.5	243.4	243.4	241.6	241.6
73°	1142.4	672.0	406.8	319.7	281.5	257.9	243.4	236.1	236.1	234.3	232.5
75°	641.1	492.2	348.7	274.3	243.4	225.2	214.3	203.4	201.6	201.6	201.6
77.5°	421.4	383.2	277.9	219.8	196.2	179.8	176.2	165.3	165.3	165.3	163.5
80°	316.0	301.5	214.3	167.1	150.8	138.0	134.4	127.1	125.3	118.1	119.9
82.5°	210.7	237.9	156.2	118.1	101.7	94.4	94.4	92.6	87.2	78.1	78.1
85°	167.1	194.3	112.6	72.7	59.9	50.9	52.7	50.9	49.0	40.0	38.1
87.5°	30.9	78.1	32.7	20.0	14.5	9.1	9.1	5.4	3.6	0.0	0.0
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)