

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: P479096

Luminaire Tested: **IFLD-S-SA3E-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479096
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

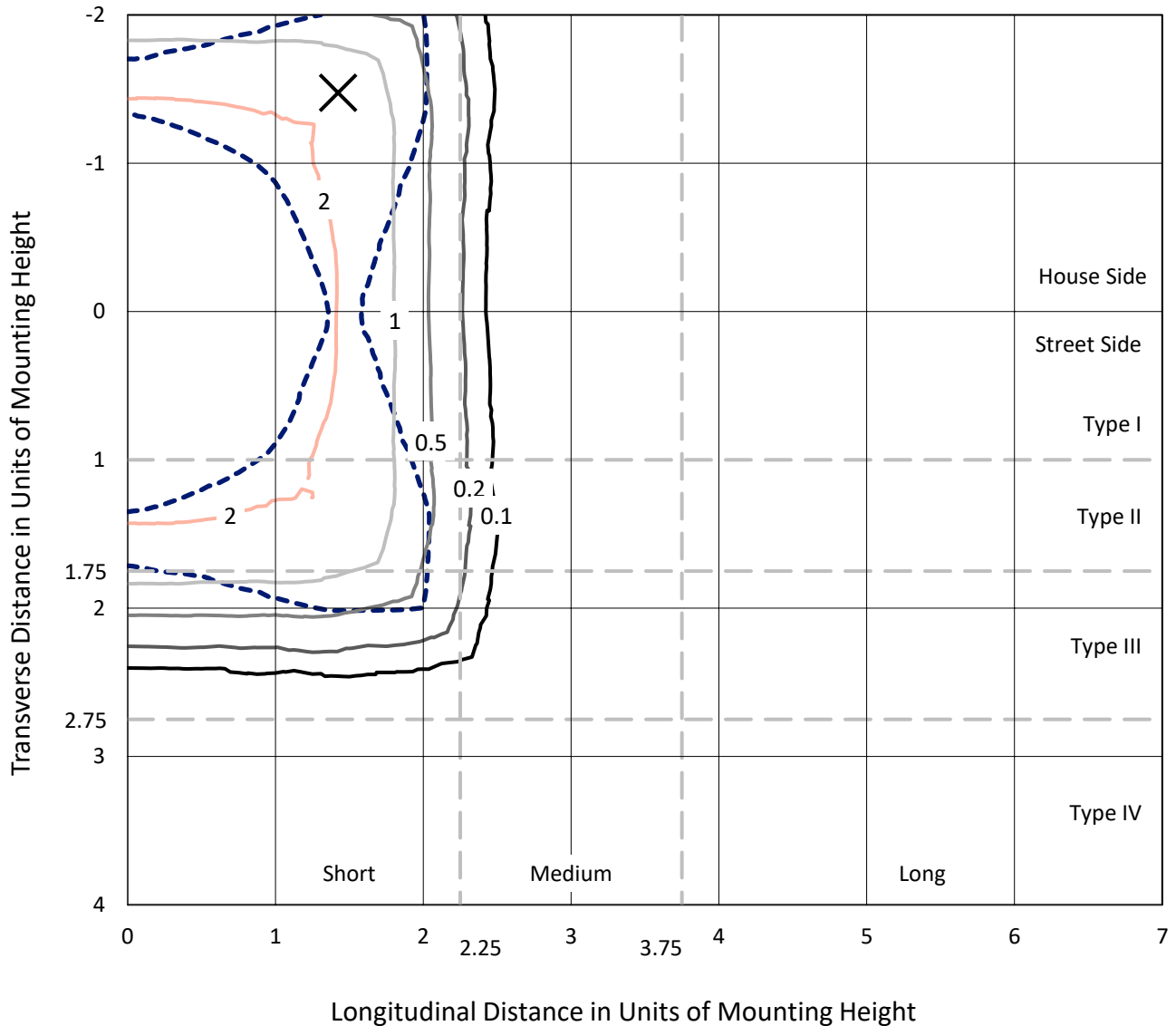
Lumens per Lamp: N/A
Luminaire Lumens: 21376.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1
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

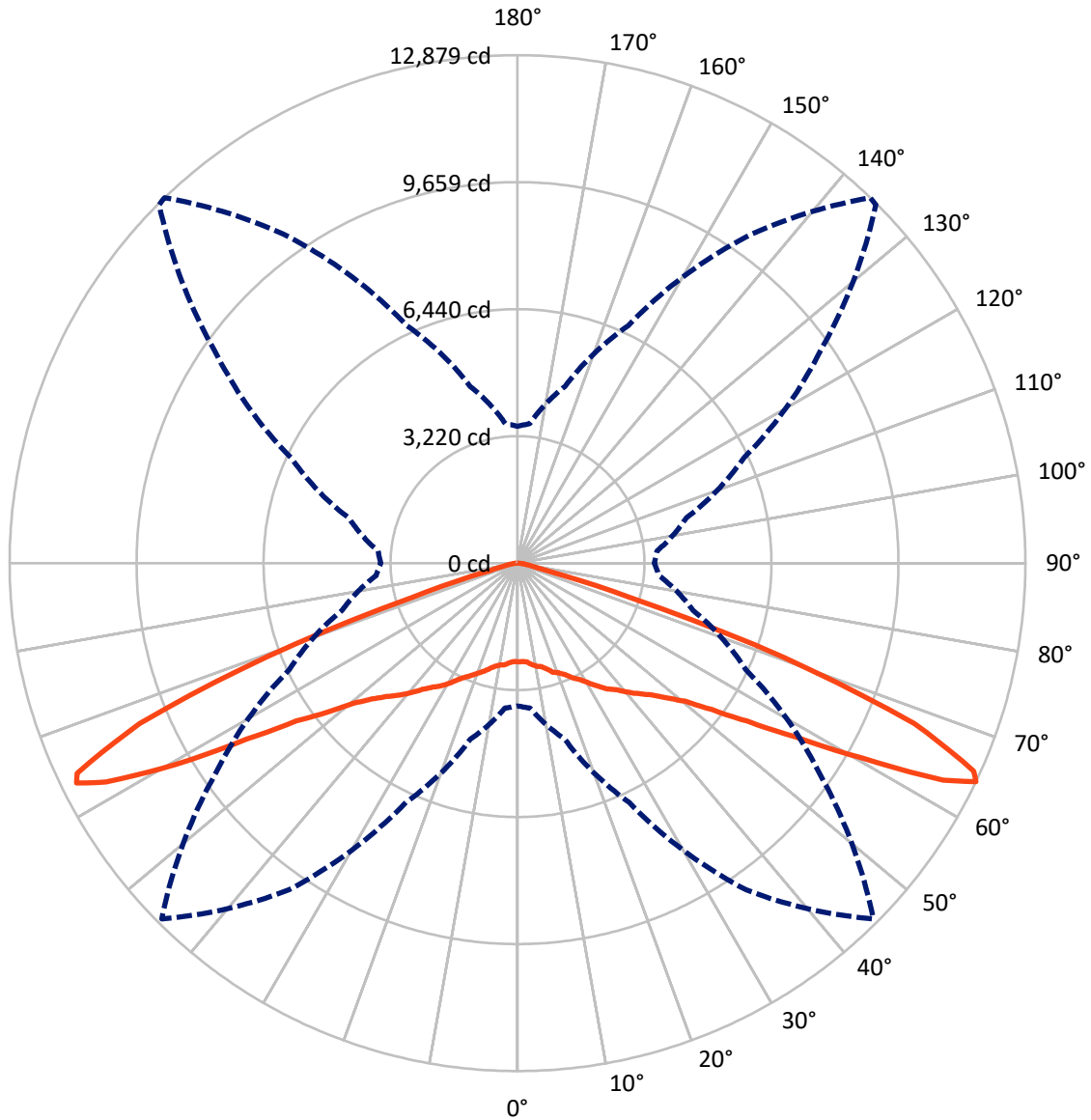
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	10698.5	0.0	10698.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10678.2	0.0	10678.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	21376.7	0.0	21376.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	1.2
10°-20°	792.6	3.7
20°-30°	1489.6	7.0
30°-40°	2456.6	11.5
40°-50°	3842.0	18.0
50°-60°	6207.7	29.0
60°-70°	5589.6	26.1
70°-80°	662.1	3.1
80°-90°	90.6	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°	21376.7	100.0
0°-180°	21376.7	100.0

Coefficient of Utilization



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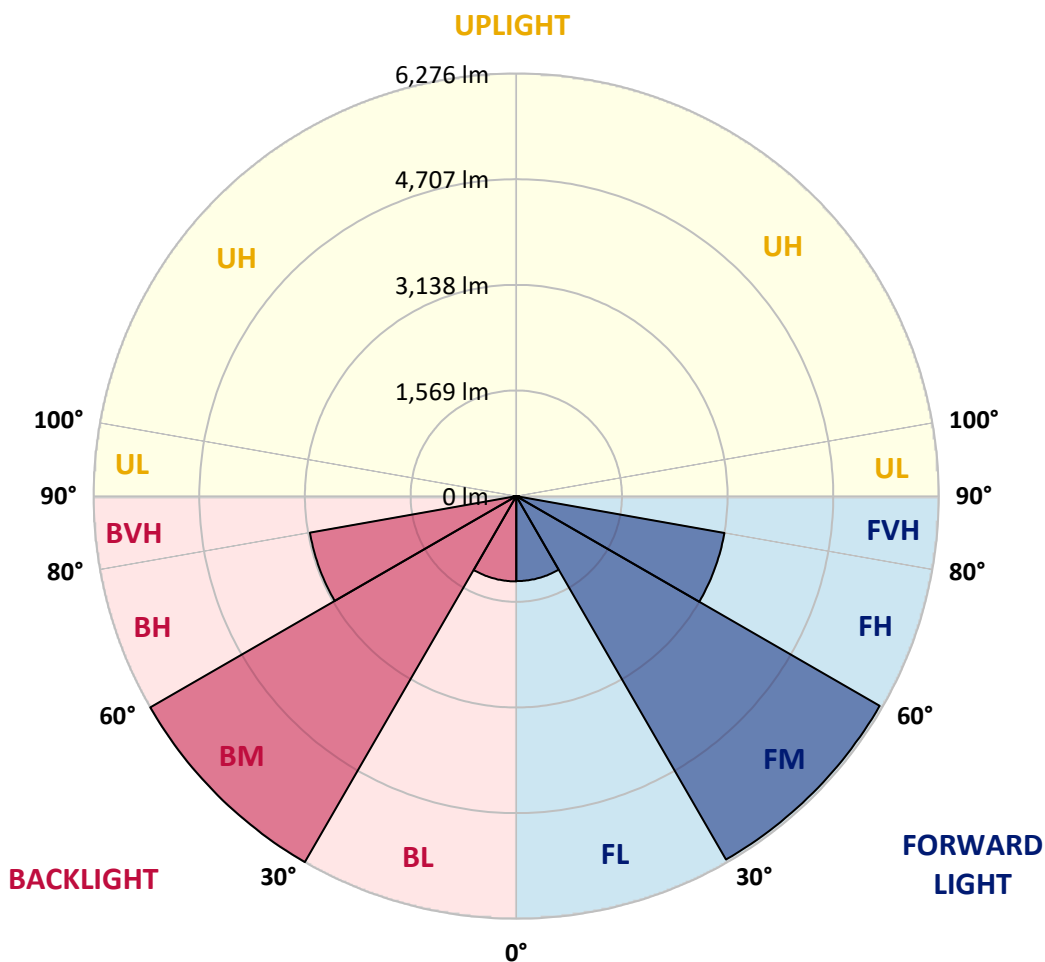
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.6	5.9			
FM (30°-60°)	6230.7	29.1			
FH (60°-80°)	3139.4	14.7			G2/5000
FVH (80°-90°)	46.5	0.2			G1/100
BL (0°-30°)	1266.5	5.9	B3/2500		
BM (30°-60°)	6275.6	29.4	B4/8500		
BH (60°-80°)	3112.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	44.1	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°	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8
2.5°	2473.4	2478.3	2522.4	2505.2	2519.9	2493.0	2512.6	2554.3	2505.2	2542.0	2554.3
5°	2500.3	2507.7	2507.7	2524.8	2534.6	2529.7	2542.0	2524.8	2571.4	2551.8	2581.2
7.5°	2598.4	2586.1	2566.5	2581.2	2583.7	2595.9	2608.2	2630.2	2622.9	2605.7	2635.1
10°	2615.5	2605.7	2635.1	2637.6	2625.3	2615.5	2627.8	2627.8	2649.9	2654.8	2654.8
12.5°	2645.0	2654.8	2652.3	2671.9	2674.4	2667.0	2686.6	2723.4	2713.6	2720.9	2703.8
15°	2757.7	2745.5	2743.0	2762.6	2794.5	2747.9	2782.2	2779.8	2770.0	2784.7	2745.5
17.5°	2855.8	2816.5	2833.7	2865.6	2853.3	2863.1	2907.2	2868.0	2877.8	2860.7	2848.4
20°	2941.6	2909.7	2912.1	2924.4	2924.4	2953.8	2971.0	2956.3	2946.5	2944.0	2948.9
22.5°	3037.2	3000.4	3002.8	3054.3	3071.5	3061.7	3049.4	3073.9	3078.8	3059.2	3081.3
25°	3108.2	3147.5	3159.7	3184.2	3147.5	3174.4	3164.6	3211.2	3240.6	3201.4	3228.4
27.5°	3294.5	3277.4	3309.3	3306.8	3336.2	3309.3	3326.4	3341.1	3353.4	3355.8	3343.6
30°	3461.2	3468.6	3436.7	3522.5	3453.9	3498.0	3527.4	3534.8	3549.5	3549.5	3512.7
32.5°	3637.7	3623.0	3674.5	3654.9	3642.6	3676.9	3645.1	3745.6	3686.8	3721.1	3679.4
35°	3836.3	3836.3	3855.9	3909.8	3836.3	3814.2	3873.1	3914.7	3914.7	3853.4	3868.1
37.5°	4059.3	4039.7	4064.3	4132.9	4076.5	4003.0	4110.8	4128.0	4115.7	4098.6	4069.2
40°	4216.2	4211.3	4260.4	4351.1	4270.2	4255.5	4275.1	4321.6	4336.3	4353.5	4314.3
42.5°	4481.0	4503.0	4645.2	4623.1	4557.0	4505.5	4500.6	4674.6	4633.0	4588.8	4566.8
45°	4873.2	4853.6	4927.1	4929.6	4843.8	4731.0	4755.5	4914.9	4985.9	4887.9	4924.7
47.5°	5184.5	5194.3	5245.8	5351.2	5152.6	5035.0	5125.7	5383.0	5361.0	5324.2	5358.5
50°	5601.2	5645.3	5807.1	5770.4	5593.9	5449.2	5647.8	5890.5	5917.4	5782.6	5758.1
52.5°	6177.3	6245.9	6334.2	6363.6	6194.4	6143.0	6155.2	6456.7	6390.5	6260.6	6177.3
55°	6682.2	6714.1	6875.9	7118.6	7106.3	6858.7	7000.9	7113.7	6844.0	6576.8	6598.9
57.5°	6898.0	6912.7	7363.7	7849.1	8138.3	8194.7	8032.9	7653.0	7010.7	6495.9	6464.1
60°	6361.1	6500.8	7045.0	8140.8	9462.0	10114.1	9037.9	7714.2	6621.0	5995.9	5949.3
62.5°	5084.0	5091.3	5900.3	7562.3	10285.6	11994.2	9422.8	7138.2	5581.6	4873.2	4686.9
64°	3620.6	3689.2	4618.2	6694.5	10114.1	12759.0	9376.2	6385.6	4601.1	3596.1	3466.1
65°	2598.4	2694.0	3591.2	5812.0	9712.0	12668.3	9236.5	5738.5	3721.1	2745.5	2613.1
67.5°	956.0	995.2	1409.5	2907.2	6973.9	10795.5	7319.6	3154.8	1635.0	1164.4	1046.7
70°	443.7	446.1	522.1	960.9	3049.4	7219.1	3493.1	1184.0	615.3	487.8	453.5
72.5°	326.0	333.4	365.2	443.7	897.2	3056.8	1147.2	485.4	360.3	318.7	311.3
75°	264.7	269.6	279.4	321.1	414.3	818.7	465.7	335.8	286.8	257.4	247.6
77.5°	203.5	203.5	225.5	245.1	274.5	382.4	308.9	267.2	232.9	203.5	196.1
80°	147.1	149.5	176.5	191.2	186.3	252.5	223.1	220.6	191.2	159.3	147.1
82.5°	85.8	93.1	127.5	137.3	132.4	149.5	161.8	171.6	149.5	110.3	100.5
85°	49.0	51.5	73.5	76.0	76.0	71.1	93.1	103.0	100.5	68.6	61.3
87.5°	14.7	14.7	19.6	19.6	22.1	24.5	36.8	44.1	49.0	34.3	31.9
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°	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8
2.5°	2542.0	2505.2	2507.7	2517.5	2485.6	2497.9	2534.6	2507.7	2500.3	2485.6	2478.3
5°	2529.7	2569.0	2554.3	2559.2	2551.8	2517.5	2512.6	2534.6	2546.9	2524.8	2569.0
7.5°	2615.5	2598.4	2578.8	2586.1	2569.0	2598.4	2618.0	2573.9	2595.9	2583.7	2559.2
10°	2664.6	2632.7	2647.4	2642.5	2630.2	2659.7	2640.0	2635.1	2615.5	2588.6	2627.8
12.5°	2681.7	2718.5	2743.0	2701.3	2708.7	2694.0	2681.7	2681.7	2659.7	2652.3	2659.7
15°	2757.7	2789.6	2779.8	2811.6	2770.0	2784.7	2799.4	2762.6	2782.2	2728.3	2770.0
17.5°	2897.4	2870.5	2904.8	2863.1	2877.8	2907.2	2860.7	2860.7	2875.4	2846.0	2809.2
20°	2985.7	2973.4	2961.2	2963.6	2939.1	2966.1	2951.4	2944.0	2921.9	2931.8	2951.4
22.5°	3069.0	3051.9	3056.8	3064.1	3081.3	3069.0	3061.7	3069.0	3015.1	3064.1	2995.5
25°	3172.0	3218.6	3203.8	3235.7	3186.7	3218.6	3216.1	3169.5	3198.9	3179.3	3164.6
27.5°	3343.6	3319.1	3341.1	3301.9	3336.2	3338.7	3309.3	3387.7	3353.4	3348.5	3338.7
30°	3564.2	3547.0	3532.3	3510.3	3537.2	3515.2	3539.7	3547.0	3515.2	3490.6	3444.1
32.5°	3689.2	3735.8	3752.9	3699.0	3701.5	3713.7	3691.7	3669.6	3689.2	3696.6	3689.2
35°	3865.7	3909.8	3919.6	3878.0	3855.9	3917.2	3873.1	3946.6	3882.9	3885.3	3819.1
37.5°	4071.6	4083.9	4167.2	4120.6	4101.0	4071.6	4152.5	4142.7	4157.4	4039.7	4098.6
40°	4304.5	4348.6	4395.2	4277.5	4275.1	4302.0	4297.1	4353.5	4326.5	4309.4	4267.7
42.5°	4559.4	4652.6	4659.9	4581.5	4532.4	4527.5	4552.1	4677.1	4679.5	4566.8	4517.7
45°	4897.7	5000.6	4973.7	4821.7	4767.8	4760.4	4880.5	4934.5	4981.0	4936.9	4895.2
47.5°	5319.3	5388.0	5368.3	5228.6	5054.6	5103.6	5221.3	5390.4	5341.4	5282.5	5233.5
50°	5770.4	5851.2	5809.6	5669.9	5503.2	5503.2	5647.8	5863.5	5848.8	5733.6	5689.5
52.5°	6270.4	6388.1	6483.7	6285.1	6145.4	6167.5	6395.4	6473.9	6437.1	6356.2	6319.4
55°	6643.0	6868.5	7064.6	7074.4	7081.8	7079.3	7138.2	7216.6	6954.3	6824.4	6692.0
57.5°	6552.3	6978.8	7650.5	8106.4	8241.3	8312.4	8292.7	7929.9	7309.8	6883.2	6927.4
60°	5905.2	6601.3	7684.8	9148.2	10128.8	10030.7	9672.8	8238.8	7113.7	6393.0	6302.3
62.5°	4711.4	5549.7	7108.8	9442.4	12143.7	12114.3	10241.5	7525.5	5927.2	5015.4	4959.0
64°	3549.5	4431.9	6341.5	9366.4	12849.7	12879.1	10096.9	6647.9	4637.9	3549.5	3463.7
65°	2716.0	3534.8	5589.0	9209.5	12697.7	12714.9	9694.9	5740.9	3525.0	2519.9	2426.8
67.5°	1081.0	1505.1	3032.3	6983.7	10903.4	10856.8	6917.6	2777.3	1348.2	877.6	860.4
70°	460.8	573.6	1063.9	3309.3	7300.0	7165.1	2978.3	902.1	500.1	419.2	416.7
72.5°	316.2	350.5	455.9	1022.2	3034.7	2963.6	848.1	419.2	340.7	313.8	313.8
75°	254.9	279.4	330.9	429.0	804.0	774.6	399.6	308.9	272.1	252.5	250.0
77.5°	198.6	223.1	259.8	296.6	367.7	365.2	267.2	232.9	210.8	196.1	191.2
80°	156.9	181.4	205.9	210.8	240.2	235.3	181.4	183.8	171.6	142.2	139.7
82.5°	107.9	147.1	164.2	149.5	142.2	142.2	129.9	129.9	120.1	88.2	80.9
85°	66.2	98.1	103.0	88.2	66.2	66.2	71.1	68.6	63.7	46.6	44.1
87.5°	34.3	46.6	41.7	34.3	22.1	22.1	19.6	14.7	14.7	12.3	12.3
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)