

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: P478879

Luminaire Tested: **IFLD-M-SA4B-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478879
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

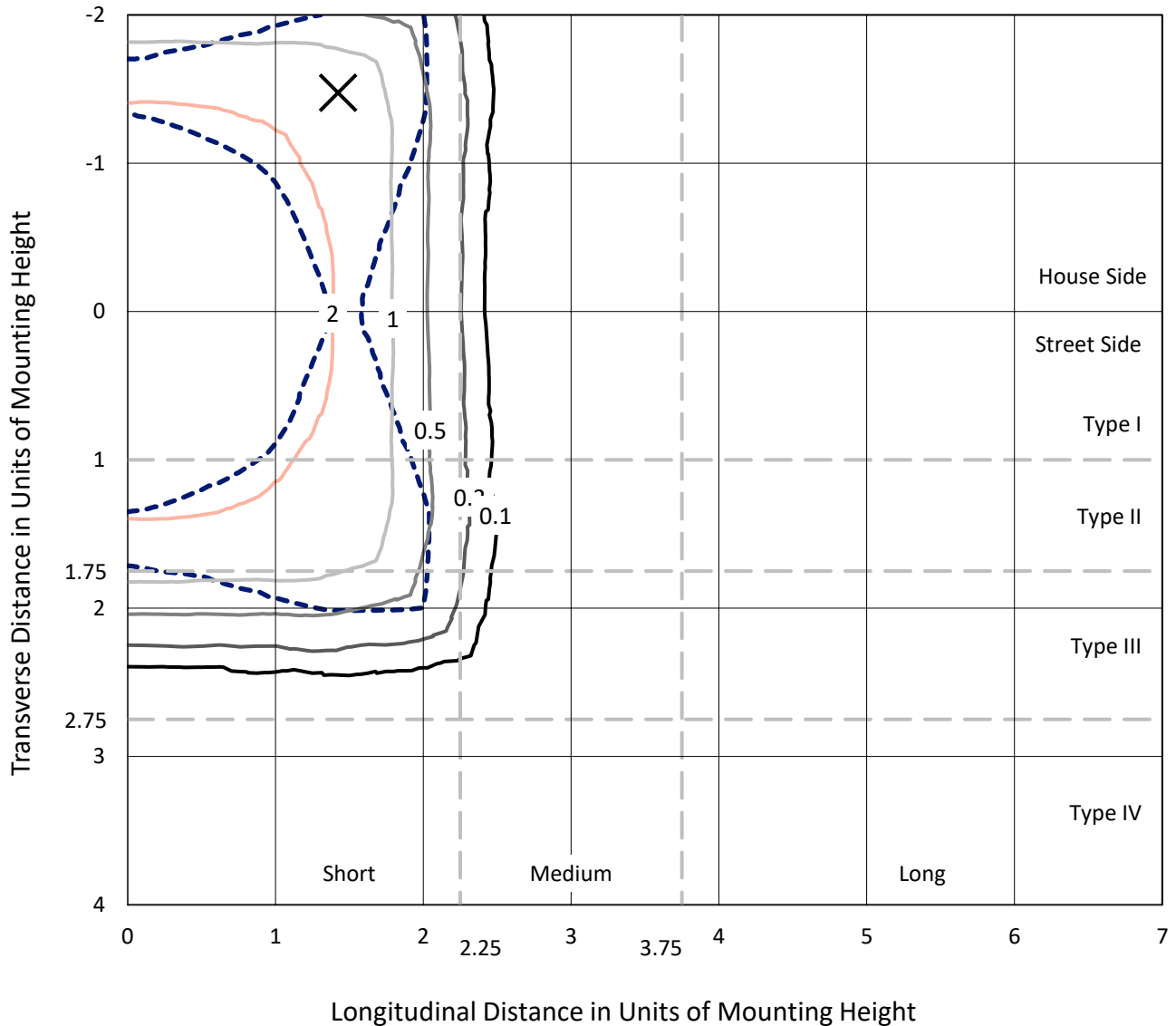
Lumens per Lamp: N/A
Luminaire Lumens: 20743 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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

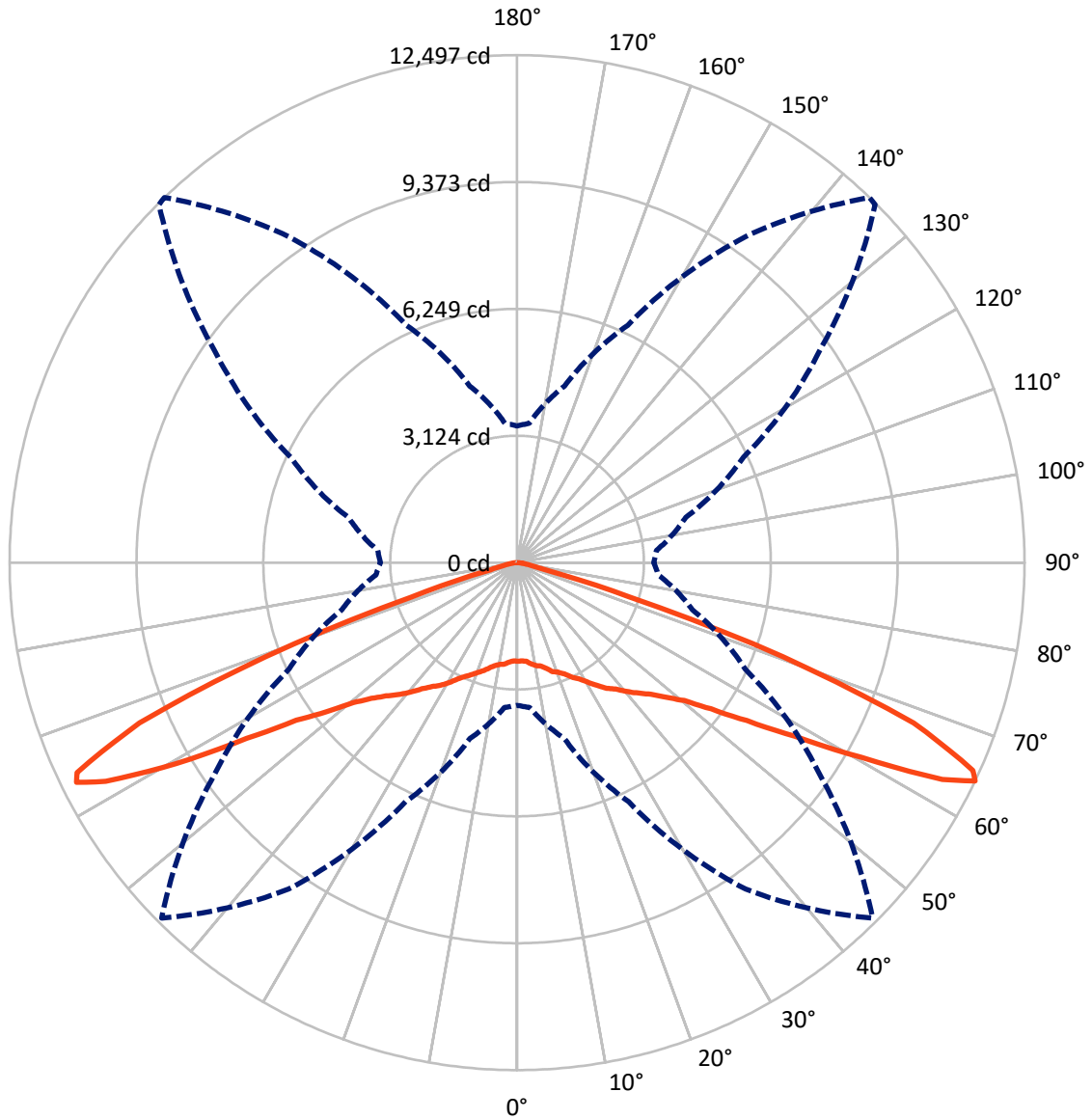
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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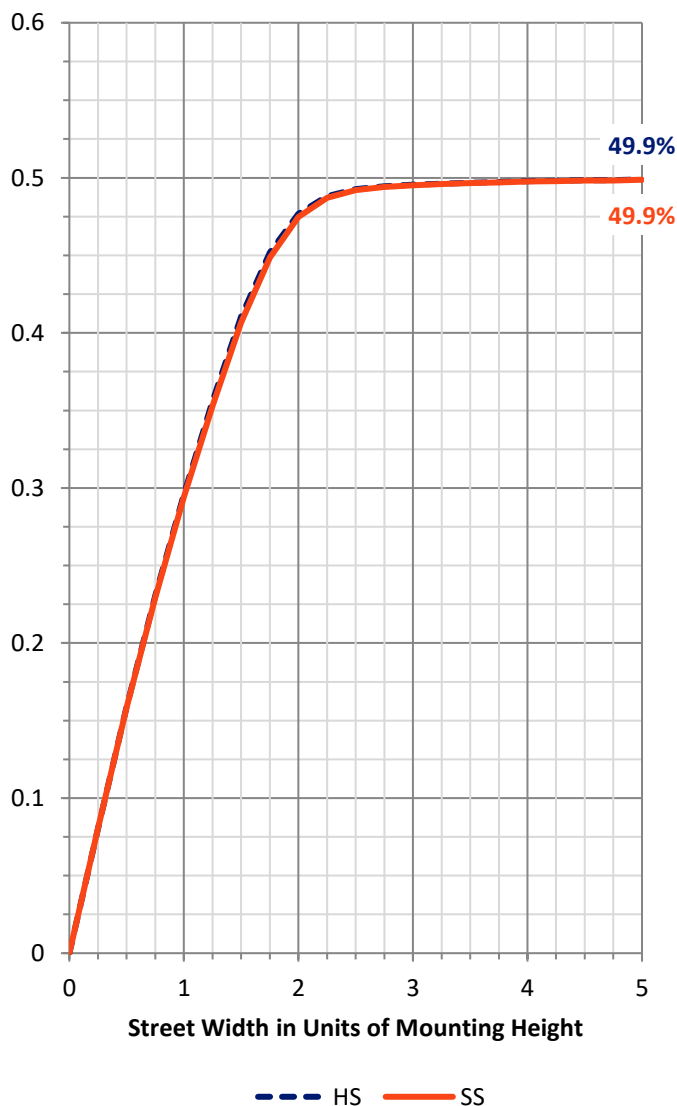
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10381.4	0.0	10381.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10361.6	0.0	10361.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	20743.0	0.0	20743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	1.2
10°-20°	769.1	3.7
20°-30°	1445.4	7.0
30°-40°	2383.8	11.5
40°-50°	3728.1	18.0
50°-60°	6023.7	29.0
60°-70°	5423.9	26.1
70°-80°	642.5	3.1
80°-90°	87.9	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°	20743.0	100.0
0°-180°	20743.0	100.0

Coefficient of Utilization



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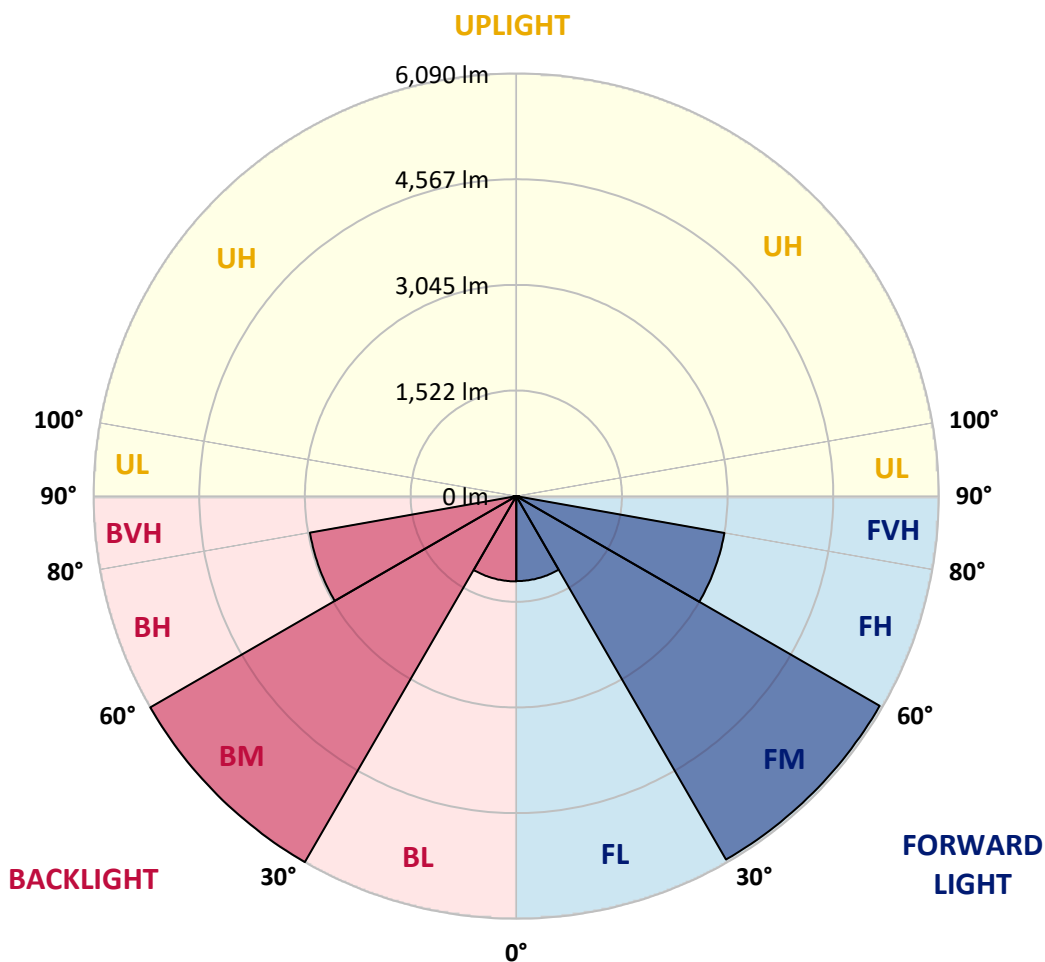
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.2	5.9			
FM (30°-60°)	6045.9	29.1			
FH (60°-80°)	3046.3	14.7			G2/5000
FVH (80°-90°)	45.1	0.2			G1/100
BL (0°-30°)	1228.9	5.9	B3/2500		
BM (30°-60°)	6089.6	29.4	B4/8500		
BH (60°-80°)	3020.0	14.6	B4/5000		G2/5000
BVH (80°-90°)	42.8	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°	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6
2.5°	2400.0	2404.8	2447.6	2431.0	2445.2	2419.1	2438.1	2478.5	2431.0	2466.6	2478.5
5°	2426.2	2433.3	2433.3	2450.0	2459.5	2454.7	2466.6	2450.0	2495.2	2476.1	2504.7
7.5°	2521.3	2509.4	2490.4	2504.7	2507.1	2519.0	2530.9	2552.3	2545.1	2528.5	2557.0
10°	2538.0	2528.5	2557.0	2559.4	2547.5	2538.0	2549.9	2549.9	2571.3	2576.1	2576.1
12.5°	2566.5	2576.1	2573.7	2592.7	2595.1	2587.9	2607.0	2642.7	2633.1	2640.3	2623.6
15°	2676.0	2664.1	2661.7	2680.7	2711.6	2666.4	2699.7	2697.4	2687.8	2702.1	2664.1
17.5°	2771.1	2733.0	2749.7	2780.6	2768.7	2778.2	2821.0	2783.0	2792.5	2775.9	2764.0
20°	2854.3	2823.4	2825.8	2837.7	2837.7	2866.2	2882.9	2868.6	2859.1	2856.7	2861.5
22.5°	2947.1	2911.4	2913.8	2963.8	2980.4	2970.9	2959.0	2982.8	2987.6	2968.5	2989.9
25°	3016.1	3054.2	3066.0	3089.8	3054.2	3080.3	3070.8	3116.0	3144.5	3106.5	3132.6
27.5°	3196.9	3180.2	3211.1	3208.8	3237.3	3211.1	3227.8	3242.1	3254.0	3256.3	3244.4
30°	3358.6	3365.8	3334.8	3418.1	3351.5	3394.3	3422.8	3430.0	3444.2	3444.2	3408.6
32.5°	3529.9	3515.6	3565.6	3546.5	3534.6	3567.9	3537.0	3634.5	3577.5	3610.8	3570.3
35°	3722.5	3722.5	3741.6	3793.9	3722.5	3701.1	3758.2	3798.7	3798.7	3739.2	3753.5
37.5°	3939.0	3920.0	3943.8	4010.4	3955.7	3884.3	3989.0	4005.6	3993.7	3977.1	3948.5
40°	4091.2	4086.5	4134.0	4222.1	4143.6	4129.3	4148.3	4193.5	4207.8	4224.4	4186.4
42.5°	4348.1	4369.5	4507.5	4486.1	4421.9	4371.9	4367.2	4536.0	4495.6	4452.8	4431.4
45°	4728.7	4709.7	4781.0	4783.4	4700.2	4590.7	4614.5	4769.1	4838.1	4743.0	4778.7
47.5°	5030.8	5040.3	5090.3	5192.5	4999.9	4885.7	4973.7	5223.5	5202.1	5166.4	5199.7
50°	5435.2	5478.0	5635.0	5599.3	5428.0	5287.7	5480.4	5715.8	5742.0	5611.2	5587.4
52.5°	5994.1	6060.7	6146.4	6174.9	6010.8	5960.8	5972.7	6265.3	6201.1	6075.0	5994.1
55°	6484.1	6515.1	6672.0	6907.5	6895.6	6655.4	6793.4	6902.8	6641.1	6381.8	6403.3
57.5°	6693.4	6707.7	7145.4	7616.4	7897.0	7951.7	7794.8	7426.1	6802.9	6303.4	6272.4
60°	6172.5	6308.1	6836.2	7899.4	9181.5	9814.2	8770.0	7485.5	6424.7	5818.1	5772.9
62.5°	4933.3	4940.4	5725.3	7338.1	9980.7	11638.6	9143.4	6926.6	5416.1	4728.7	4547.9
64°	3513.2	3579.8	4481.3	6496.0	9814.2	12380.7	9098.2	6196.3	4464.7	3489.4	3363.4
65°	2521.3	2614.1	3484.7	5639.7	9424.1	12292.7	8962.7	5568.4	3610.8	2664.1	2535.6
67.5°	927.7	965.7	1367.7	2821.0	6767.2	10475.5	7102.6	3061.3	1586.5	1129.8	1015.7
70°	430.5	432.9	506.6	932.4	2959.0	7005.0	3389.5	1148.9	597.0	473.3	440.0
72.5°	316.4	323.5	354.4	430.5	870.6	2966.1	1113.2	471.0	349.7	309.2	302.1
75°	256.9	261.6	271.2	311.6	402.0	794.5	451.9	325.9	278.3	249.8	240.2
77.5°	197.4	197.4	218.8	237.9	266.4	371.1	299.7	259.3	226.0	197.4	190.3
80°	142.7	145.1	171.3	185.5	180.8	245.0	216.5	214.1	185.5	154.6	142.7
82.5°	83.3	90.4	123.7	133.2	128.4	145.1	157.0	166.5	145.1	107.0	97.5
85°	47.6	50.0	71.4	73.7	73.7	69.0	90.4	99.9	97.5	66.6	59.5
87.5°	14.3	14.3	19.0	19.0	21.4	23.8	35.7	42.8	47.6	33.3	30.9
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°	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6
2.5°	2466.6	2431.0	2433.3	2442.8	2411.9	2423.8	2459.5	2433.3	2426.2	2411.9	2404.8
5°	2454.7	2492.8	2478.5	2483.3	2476.1	2442.8	2438.1	2459.5	2471.4	2450.0	2492.8
7.5°	2538.0	2521.3	2502.3	2509.4	2492.8	2521.3	2540.4	2497.6	2519.0	2507.1	2483.3
10°	2585.6	2554.6	2568.9	2564.2	2552.3	2580.8	2561.8	2557.0	2538.0	2511.8	2549.9
12.5°	2602.2	2637.9	2661.7	2621.2	2628.4	2614.1	2602.2	2602.2	2580.8	2573.7	2580.8
15°	2676.0	2706.9	2697.4	2728.3	2687.8	2702.1	2716.4	2680.7	2699.7	2647.4	2687.8
17.5°	2811.5	2785.4	2818.7	2778.2	2792.5	2821.0	2775.9	2775.9	2790.1	2761.6	2725.9
20°	2897.2	2885.3	2873.4	2875.8	2852.0	2878.1	2863.9	2856.7	2835.3	2844.8	2863.9
22.5°	2978.0	2961.4	2966.1	2973.3	2989.9	2978.0	2970.9	2978.0	2925.7	2973.3	2906.7
25°	3077.9	3123.1	3108.9	3139.8	3092.2	3123.1	3120.8	3075.6	3104.1	3085.1	3070.8
27.5°	3244.4	3220.7	3242.1	3204.0	3237.3	3239.7	3211.1	3287.3	3254.0	3249.2	3239.7
30°	3458.5	3441.9	3427.6	3406.2	3432.4	3410.9	3434.7	3441.9	3410.9	3387.2	3342.0
32.5°	3579.8	3625.0	3641.7	3589.3	3591.7	3603.6	3582.2	3560.8	3579.8	3587.0	3579.8
35°	3751.1	3793.9	3803.4	3763.0	3741.6	3801.0	3758.2	3829.6	3767.7	3770.1	3705.9
37.5°	3950.9	3962.8	4043.7	3998.5	3979.4	3950.9	4029.4	4019.9	4034.1	3920.0	3977.1
40°	4176.9	4219.7	4264.9	4150.7	4148.3	4174.5	4169.7	4224.4	4198.3	4181.6	4141.2
42.5°	4424.2	4514.6	4521.8	4445.6	4398.1	4393.3	4417.1	4538.4	4540.8	4431.4	4383.8
45°	4752.5	4852.4	4826.2	4678.8	4626.4	4619.3	4735.8	4788.2	4833.4	4790.5	4750.1
47.5°	5161.6	5228.2	5209.2	5073.6	4904.7	4952.3	5066.5	5230.6	5183.0	5125.9	5078.4
50°	5599.3	5677.8	5637.3	5501.8	5340.0	5340.0	5480.4	5689.7	5675.4	5563.6	5520.8
52.5°	6084.5	6198.7	6291.5	6098.8	5963.2	5984.6	6205.8	6281.9	6246.3	6167.8	6132.1
55°	6446.1	6664.9	6855.2	6864.7	6871.8	6869.5	6926.6	7002.7	6748.2	6622.1	6493.6
57.5°	6358.1	6771.9	7423.7	7866.1	7996.9	8065.9	8046.9	7694.8	7093.1	6679.2	6722.0
60°	5730.1	6405.6	7457.0	8877.0	9828.5	9733.3	9386.1	7994.6	6902.8	6203.5	6115.4
62.5°	4571.7	5385.2	6898.0	9162.5	11783.7	11755.2	9937.9	7302.4	5751.5	4866.7	4812.0
64°	3444.2	4300.6	6153.5	9088.7	12468.7	12497.3	9797.6	6450.8	4500.4	3444.2	3361.0
65°	2635.5	3430.0	5423.3	8936.5	12321.3	12337.9	9407.5	5570.7	3420.5	2445.2	2354.8
67.5°	1049.0	1460.5	2942.4	6776.7	10580.1	10534.9	6712.5	2695.0	1308.2	851.5	834.9
70°	447.2	556.6	1032.3	3211.1	7083.5	6952.7	2890.0	875.3	485.2	406.7	404.4
72.5°	306.8	340.1	442.4	991.9	2944.7	2875.8	823.0	406.7	330.6	304.5	304.5
75°	247.4	271.2	321.1	416.3	780.2	751.6	387.7	299.7	264.0	245.0	242.6
77.5°	192.7	216.5	252.1	287.8	356.8	354.4	259.3	226.0	204.6	190.3	185.5
80°	152.2	176.0	199.8	204.6	233.1	228.3	176.0	178.4	166.5	138.0	135.6
82.5°	104.7	142.7	159.4	145.1	138.0	138.0	126.1	126.1	116.6	85.6	78.5
85°	64.2	95.1	99.9	85.6	64.2	64.2	69.0	66.6	61.8	45.2	42.8
87.5°	33.3	45.2	40.4	33.3	21.4	21.4	19.0	14.3	14.3	11.9	11.9
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)