

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: P479076

Luminaire Tested: **IFLD-M-SA4D-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479076
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

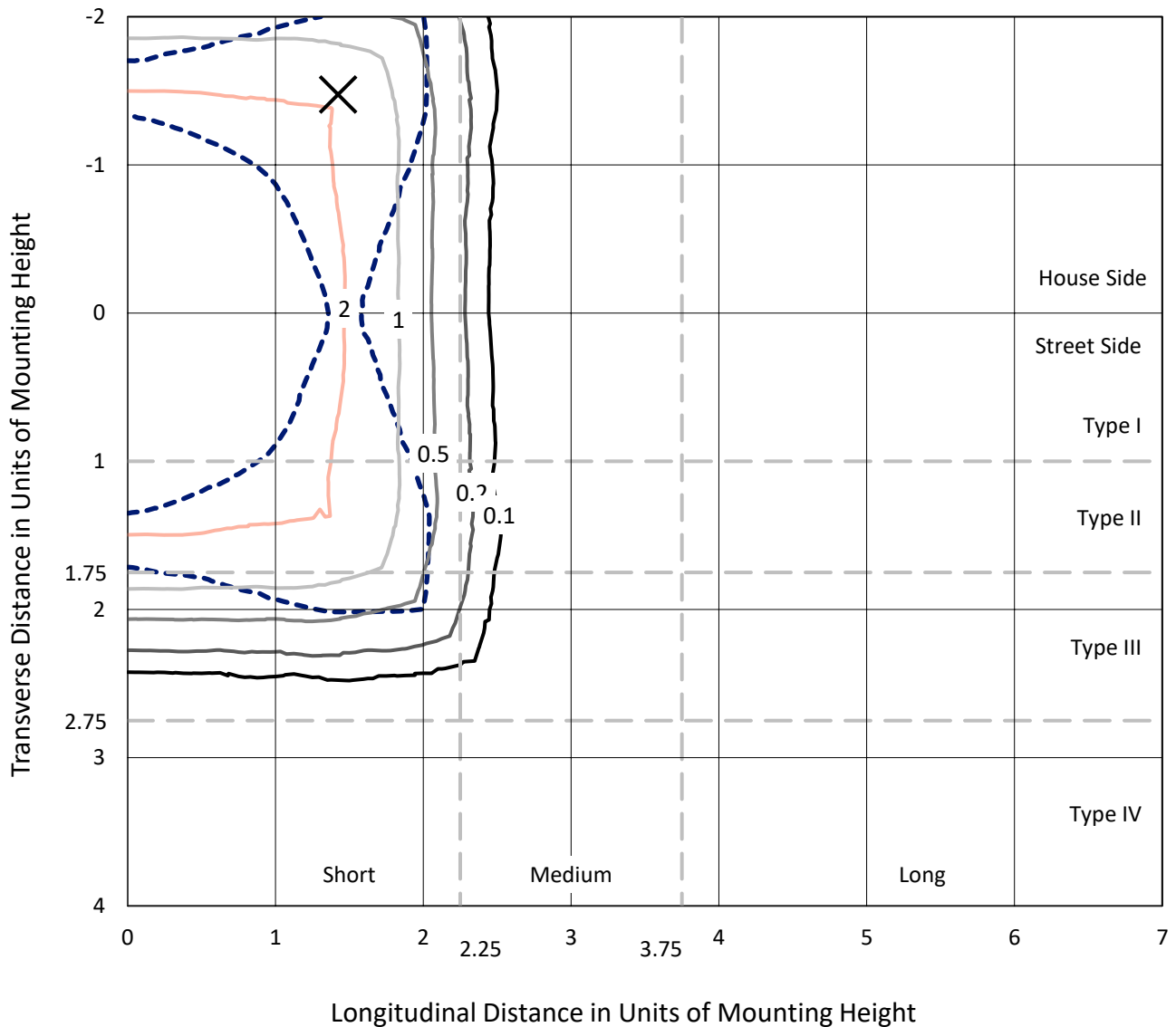
Lumens per Lamp: N/A
Luminaire Lumens: 22936.4 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 249.7
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

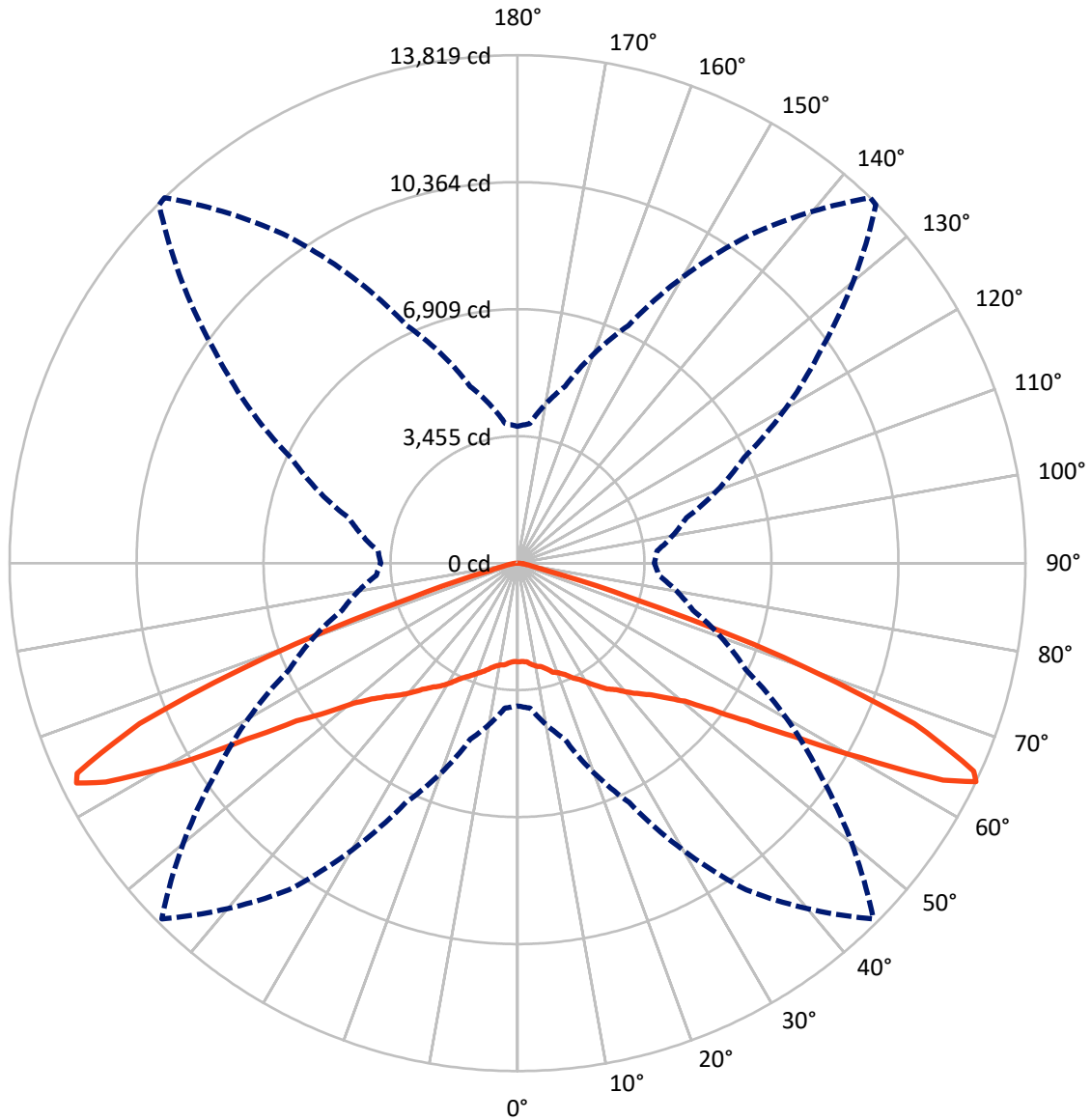
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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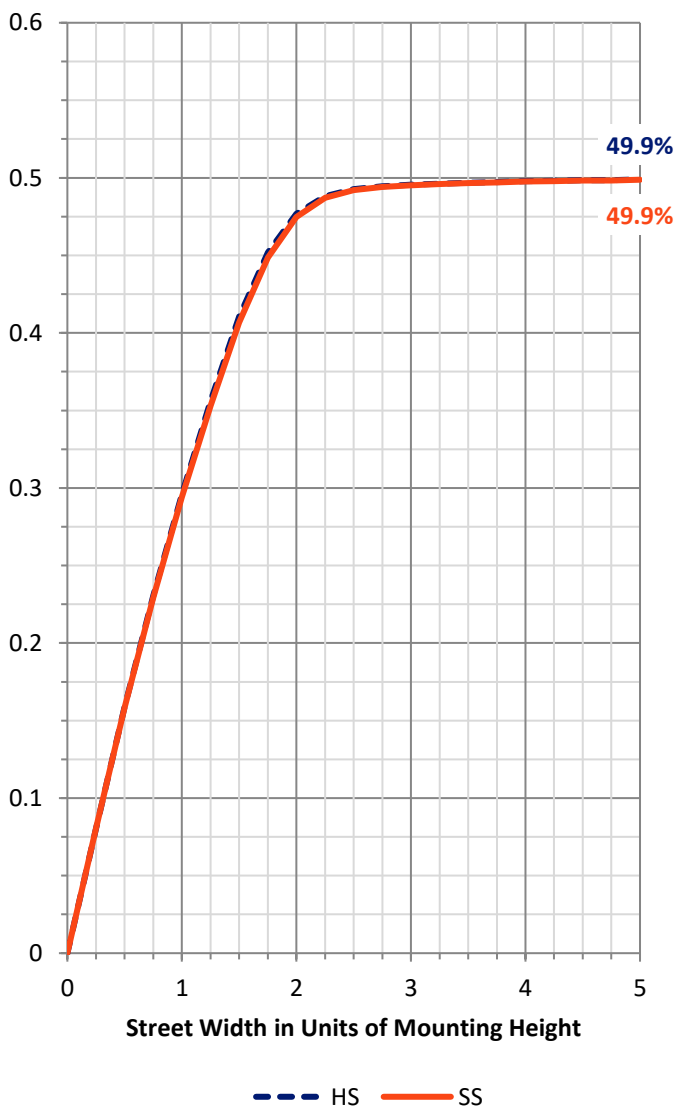
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11479.1	0.0	11479.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11457.3	0.0	11457.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	22936.4	0.0	22936.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	1.2
10°-20°	850.4	3.7
20°-30°	1598.3	7.0
30°-40°	2635.8	11.5
40°-50°	4122.3	18.0
50°-60°	6660.6	29.0
60°-70°	5997.4	26.1
70°-80°	710.4	3.1
80°-90°	97.2	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°	22936.4	100.0
0°-180°	22936.4	100.0

Coefficient of Utilization



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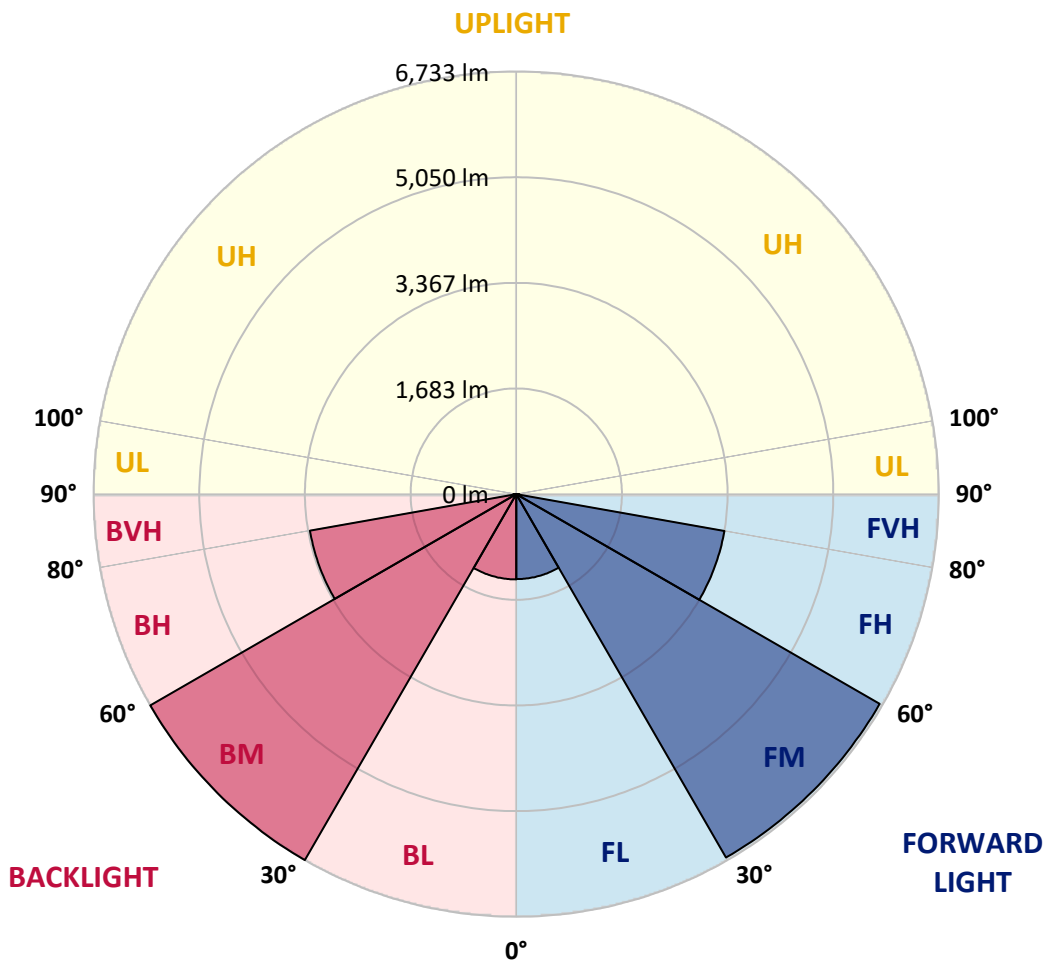
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.7	5.9			
FM (30°-60°)	6685.2	29.1			
FH (60°-80°)	3368.5	14.7			G2/5000
FVH (80°-90°)	49.9	0.2			G1/100
BL (0°-30°)	1358.9	5.9	B3/2500		
BM (30°-60°)	6733.5	29.4	B4/8500		
BH (60°-80°)	3339.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	47.4	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°	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4
2.5°	2653.8	2659.1	2706.4	2688.0	2703.8	2674.9	2695.9	2740.6	2688.0	2727.5	2740.6
5°	2682.8	2690.6	2690.6	2709.1	2719.6	2714.3	2727.5	2709.1	2759.0	2738.0	2769.5
7.5°	2788.0	2774.8	2753.8	2769.5	2772.2	2785.3	2798.5	2822.2	2814.3	2795.8	2827.4
10°	2806.4	2795.8	2827.4	2830.0	2816.9	2806.4	2819.5	2819.5	2843.2	2848.5	2848.5
12.5°	2837.9	2848.5	2845.8	2866.9	2869.5	2861.6	2882.6	2922.1	2911.6	2919.5	2901.1
15°	2958.9	2945.8	2943.1	2964.2	2998.4	2948.4	2985.2	2982.6	2972.1	2987.8	2945.8
17.5°	3064.1	3022.0	3040.5	3074.6	3061.5	3072.0	3119.4	3077.3	3087.8	3069.4	3056.2
20°	3156.2	3122.0	3124.6	3137.8	3137.8	3169.3	3187.7	3172.0	3161.4	3158.8	3164.1
22.5°	3258.8	3219.3	3221.9	3277.2	3295.6	3285.1	3271.9	3298.2	3303.5	3282.4	3306.1
25°	3335.0	3377.1	3390.3	3416.6	3377.1	3406.0	3395.5	3445.5	3477.1	3435.0	3463.9
27.5°	3534.9	3516.5	3550.7	3548.1	3579.6	3550.7	3569.1	3584.9	3598.0	3600.7	3587.5
30°	3713.8	3721.7	3687.5	3779.5	3705.9	3753.2	3784.8	3792.7	3808.5	3808.5	3769.0
32.5°	3903.1	3887.4	3942.6	3921.6	3908.4	3945.2	3911.0	4018.9	3955.7	3992.6	3947.9
35°	4116.2	4116.2	4137.2	4195.1	4116.2	4092.5	4155.6	4200.3	4200.3	4134.6	4150.4
37.5°	4355.5	4334.5	4360.8	4434.4	4373.9	4295.0	4410.8	4429.2	4416.0	4397.6	4366.0
40°	4523.9	4518.6	4571.2	4668.5	4581.7	4565.9	4587.0	4637.0	4652.7	4671.1	4629.1
42.5°	4807.9	4831.6	4984.1	4960.5	4889.4	4834.2	4829.0	5015.7	4971.0	4923.6	4900.0
45°	5228.7	5207.7	5286.6	5289.2	5197.2	5076.2	5102.5	5273.4	5349.7	5244.5	5284.0
47.5°	5562.8	5573.3	5628.5	5741.6	5528.6	5402.3	5499.6	5775.8	5752.1	5712.7	5749.5
50°	6009.9	6057.2	6230.8	6191.4	6002.0	5846.8	6059.9	6320.2	6349.2	6204.5	6178.2
52.5°	6628.0	6701.6	6796.3	6827.9	6646.4	6591.2	6604.3	6927.8	6856.8	6717.4	6628.0
55°	7169.8	7204.0	7377.6	7638.0	7624.8	7359.2	7511.7	7632.7	7343.4	7056.7	7080.4
57.5°	7401.2	7417.0	7901.0	8421.7	8732.1	8792.6	8619.0	8211.3	7522.2	6969.9	6935.7
60°	6825.2	6975.2	7559.0	8734.7	10152.4	10852.0	9697.4	8277.1	7104.0	6433.3	6383.4
62.5°	5454.9	5462.8	6330.8	8114.0	11036.1	12869.3	10110.3	7659.0	5988.8	5228.7	5028.8
64°	3884.7	3958.4	4955.2	7182.9	10852.0	13689.9	10060.3	6851.5	4936.8	3858.4	3719.0
65°	2788.0	2890.5	3853.2	6236.1	10420.7	13592.6	9910.4	6157.2	3992.6	2945.8	2803.7
67.5°	1025.8	1067.8	1512.3	3119.4	7482.8	11583.2	7853.6	3385.0	1754.3	1249.3	1123.1
70°	476.1	478.7	560.2	1031.0	3271.9	7745.8	3748.0	1270.4	660.2	523.4	486.6
72.5°	349.8	357.7	391.9	476.1	962.6	3279.8	1230.9	520.8	386.6	341.9	334.0
75°	284.1	289.3	299.8	344.5	444.5	878.5	499.7	360.3	307.7	276.2	265.6
77.5°	218.3	218.3	242.0	263.0	294.6	410.3	331.4	286.7	249.9	218.3	210.4
80°	157.8	160.4	189.4	205.2	199.9	270.9	239.3	236.7	205.2	171.0	157.8
82.5°	92.1	99.9	136.8	147.3	142.0	160.4	173.6	184.1	160.4	118.4	107.8
85°	52.6	55.2	78.9	81.5	81.5	76.3	99.9	110.5	107.8	73.6	65.8
87.5°	15.8	15.8	21.0	21.0	23.7	26.3	39.5	47.3	52.6	36.8	34.2
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°	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4	2685.4
2.5°	2727.5	2688.0	2690.6	2701.2	2667.0	2680.1	2719.6	2690.6	2682.8	2667.0	2659.1
5°	2714.3	2756.4	2740.6	2745.9	2738.0	2701.2	2695.9	2719.6	2732.7	2709.1	2756.4
7.5°	2806.4	2788.0	2766.9	2774.8	2756.4	2788.0	2809.0	2761.7	2785.3	2772.2	2745.9
10°	2859.0	2824.8	2840.6	2835.3	2822.2	2853.7	2832.7	2827.4	2806.4	2777.4	2819.5
12.5°	2877.4	2916.8	2943.1	2898.4	2906.3	2890.5	2877.4	2877.4	2853.7	2845.8	2853.7
15°	2958.9	2993.1	2982.6	3016.8	2972.1	2987.8	3003.6	2964.2	2985.2	2927.4	2972.1
17.5°	3108.8	3079.9	3116.7	3072.0	3087.8	3119.4	3069.4	3069.4	3085.2	3053.6	3014.2
20°	3203.5	3190.4	3177.2	3179.9	3153.5	3182.5	3166.7	3158.8	3135.1	3145.7	3166.7
22.5°	3292.9	3274.5	3279.8	3287.7	3306.1	3292.9	3285.1	3292.9	3235.1	3287.7	3214.0
25°	3403.4	3453.4	3437.6	3471.8	3419.2	3453.4	3450.8	3400.8	3432.3	3411.3	3395.5
27.5°	3587.5	3561.2	3584.9	3542.8	3579.6	3582.3	3550.7	3634.9	3598.0	3592.8	3582.3
30°	3824.2	3805.8	3790.0	3766.4	3795.3	3771.6	3797.9	3805.8	3771.6	3745.3	3695.4
32.5°	3958.4	4008.3	4026.8	3968.9	3971.5	3984.7	3961.0	3937.3	3958.4	3966.3	3958.4
35°	4147.7	4195.1	4205.6	4160.9	4137.2	4203.0	4155.6	4234.5	4166.2	4168.8	4097.8
37.5°	4368.7	4381.8	4471.3	4421.3	4400.2	4368.7	4455.5	4445.0	4460.7	4334.5	4397.6
40°	4618.5	4665.9	4715.9	4589.6	4587.0	4615.9	4610.7	4671.1	4642.2	4623.8	4579.1
42.5°	4892.1	4992.0	4999.9	4915.7	4863.1	4857.9	4884.2	5018.3	5021.0	4900.0	4847.4
45°	5255.0	5365.5	5336.6	5173.5	5115.6	5107.7	5236.6	5294.5	5344.5	5297.1	5252.4
47.5°	5707.4	5781.1	5760.0	5610.1	5423.4	5476.0	5602.2	5783.7	5731.1	5668.0	5615.4
50°	6191.4	6278.2	6233.5	6083.5	5904.7	5904.7	6059.9	6291.3	6275.5	6151.9	6104.6
52.5°	6727.9	6854.2	6956.7	6743.7	6593.8	6617.5	6862.1	6946.2	6906.8	6820.0	6780.5
55°	7127.7	7369.7	7580.1	7590.6	7598.5	7595.9	7659.0	7743.2	7461.7	7322.3	7180.3
57.5°	7030.4	7488.0	8208.7	8697.9	8842.6	8918.8	8897.8	8508.5	7843.1	7385.5	7432.8
60°	6336.0	7083.0	8245.5	9815.7	10867.8	10762.6	10378.6	8839.9	7632.7	6859.4	6762.1
62.5°	5055.1	5954.7	7627.4	10131.3	13029.8	12998.2	10988.8	8074.6	6359.7	5381.3	5320.8
64°	3808.5	4755.3	6804.2	10049.8	13787.2	13818.8	10833.6	7133.0	4976.2	3808.5	3716.4
65°	2914.2	3792.7	5996.7	9881.5	13624.2	13642.6	10402.2	6159.8	3782.2	2703.8	2603.8
67.5°	1159.9	1614.9	3253.5	7493.3	11698.9	11648.9	7422.3	2980.0	1446.6	941.6	923.2
70°	494.5	615.5	1141.5	3550.7	7832.6	7687.9	3195.6	967.9	536.6	449.8	447.1
72.5°	339.3	376.1	489.2	1096.8	3256.1	3179.9	910.0	449.8	365.6	336.7	336.7
75°	273.5	299.8	355.1	460.3	862.7	831.1	428.7	331.4	291.9	270.9	268.3
77.5°	213.0	239.3	278.8	318.2	394.5	391.9	286.7	249.9	226.2	210.4	205.2
80°	168.3	194.6	220.9	226.2	257.8	252.5	194.6	197.3	184.1	152.5	149.9
82.5°	115.7	157.8	176.2	160.4	152.5	152.5	139.4	139.4	128.9	94.7	86.8
85°	71.0	105.2	110.5	94.7	71.0	71.0	76.3	73.6	68.4	50.0	47.3
87.5°	36.8	50.0	44.7	36.8	23.7	23.7	21.0	15.8	15.8	13.2	13.2
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)