

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: P479068

Luminaire Tested: **IFLD-S-SA6A-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479068
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

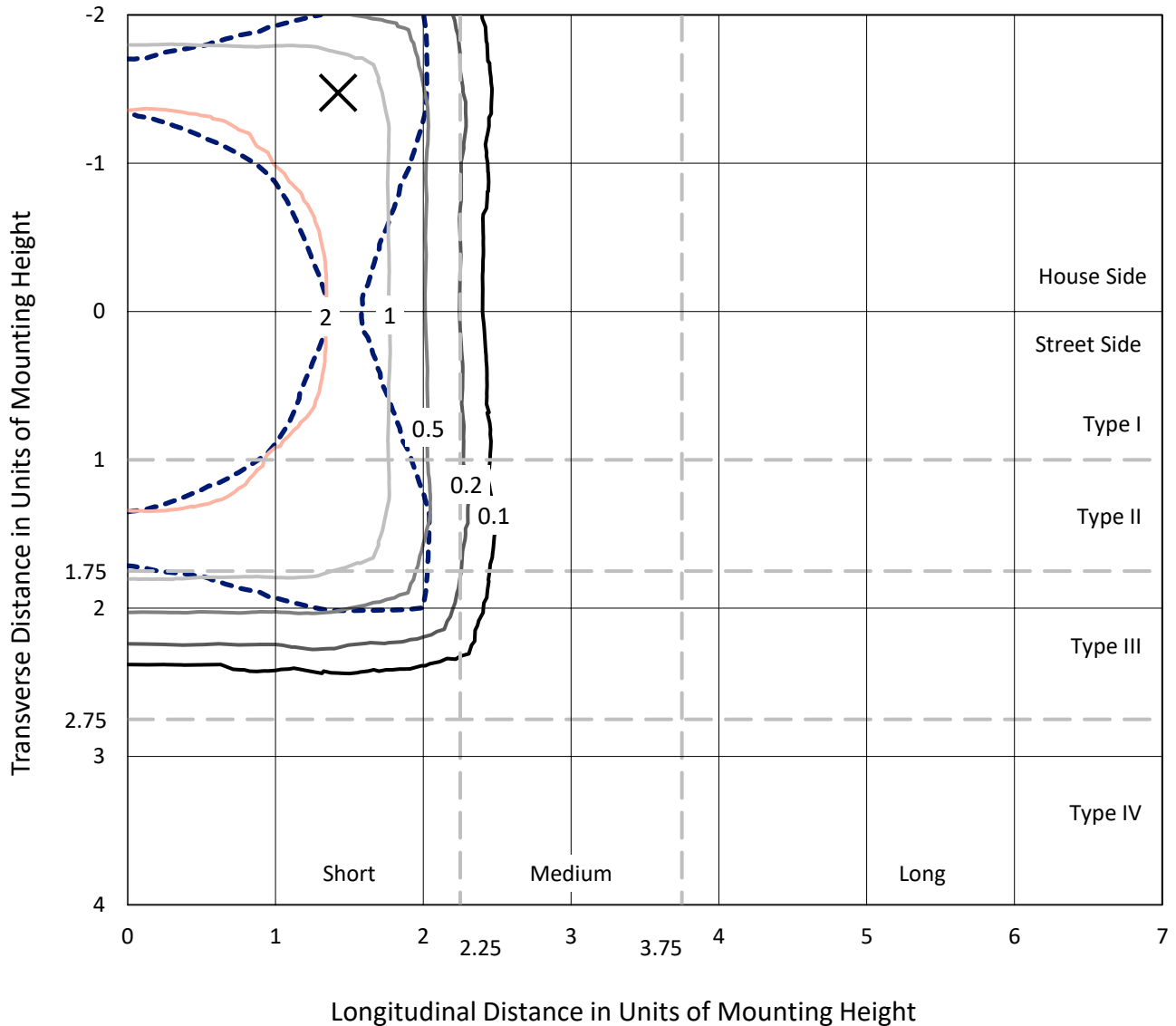
Lumens per Lamp: N/A
Luminaire Lumens: 19788.2 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 189.6
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

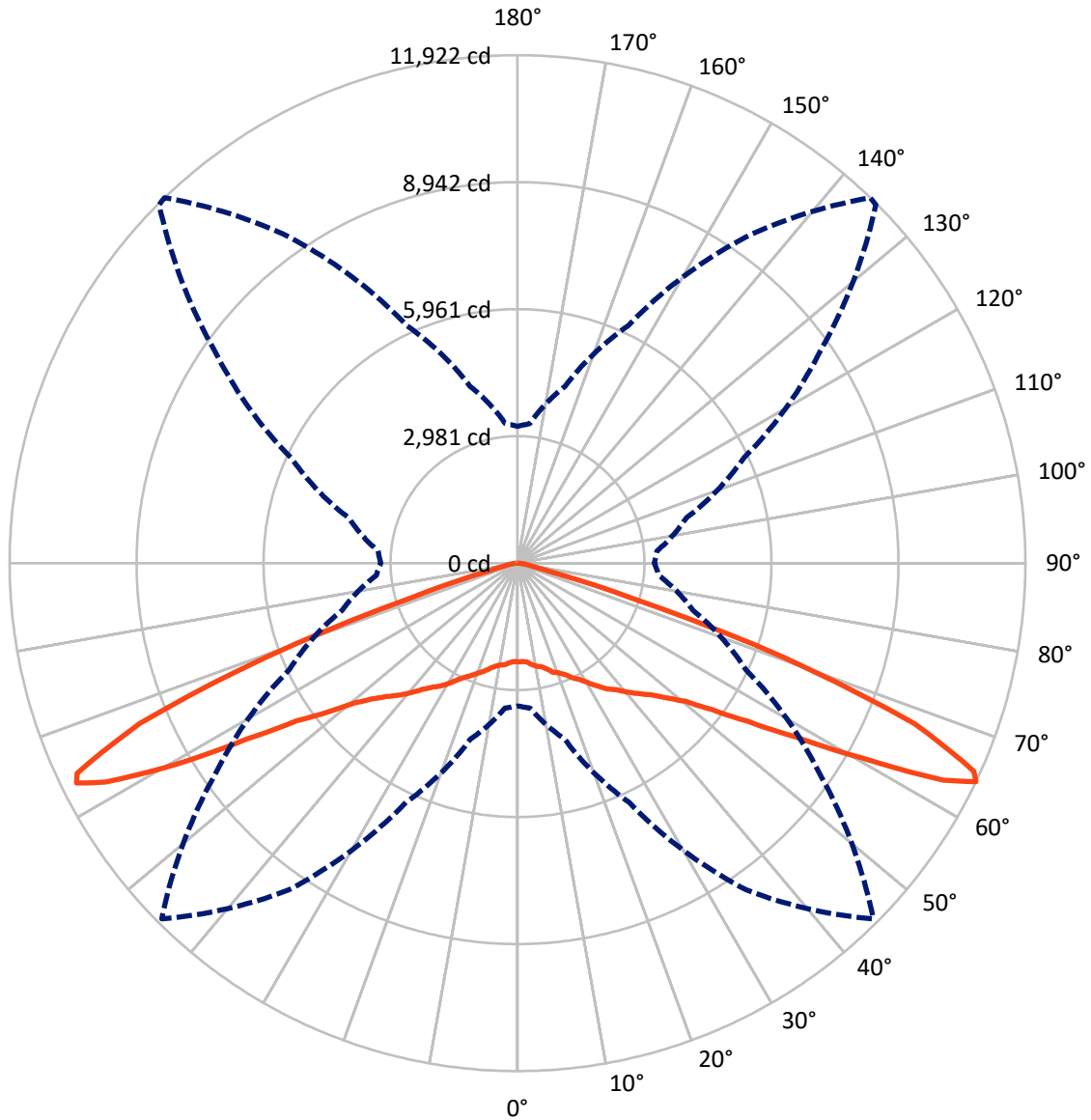
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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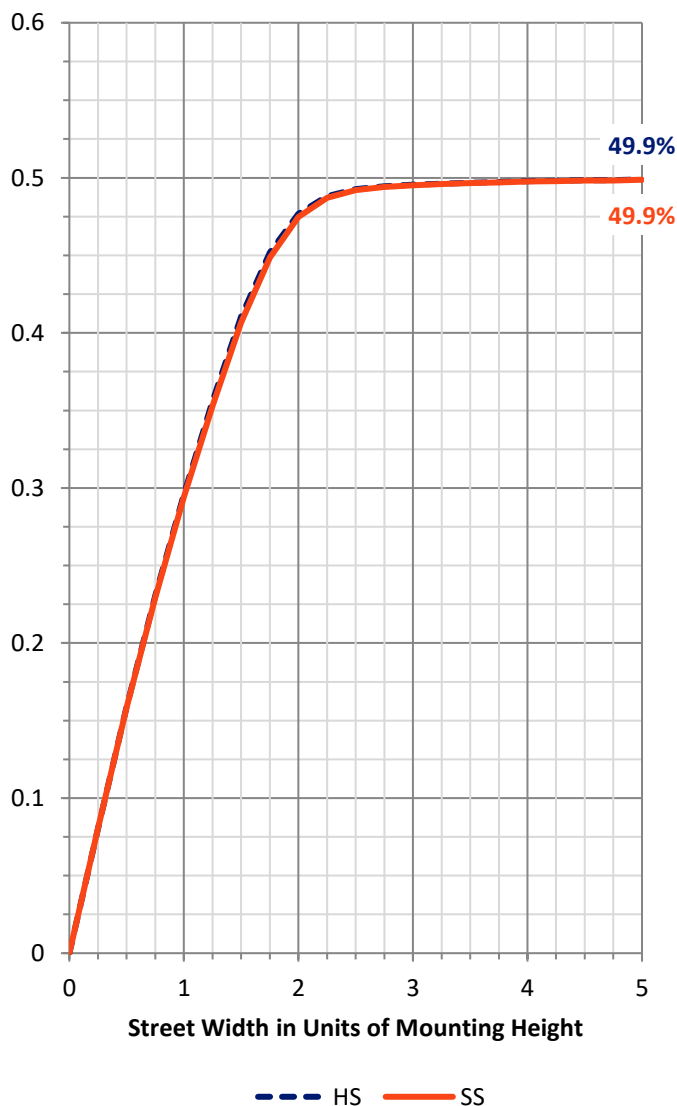
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9903.5	0.0	9903.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9884.7	0.0	9884.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19788.2	0.0	19788.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	1.2
10°-20°	733.7	3.7
20°-30°	1378.9	7.0
30°-40°	2274.1	11.5
40°-50°	3556.5	18.0
50°-60°	5746.4	29.0
60°-70°	5174.2	26.1
70°-80°	612.9	3.1
80°-90°	83.9	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°	19788.2	100.0
0°-180°	19788.2	100.0

Coefficient of Utilization



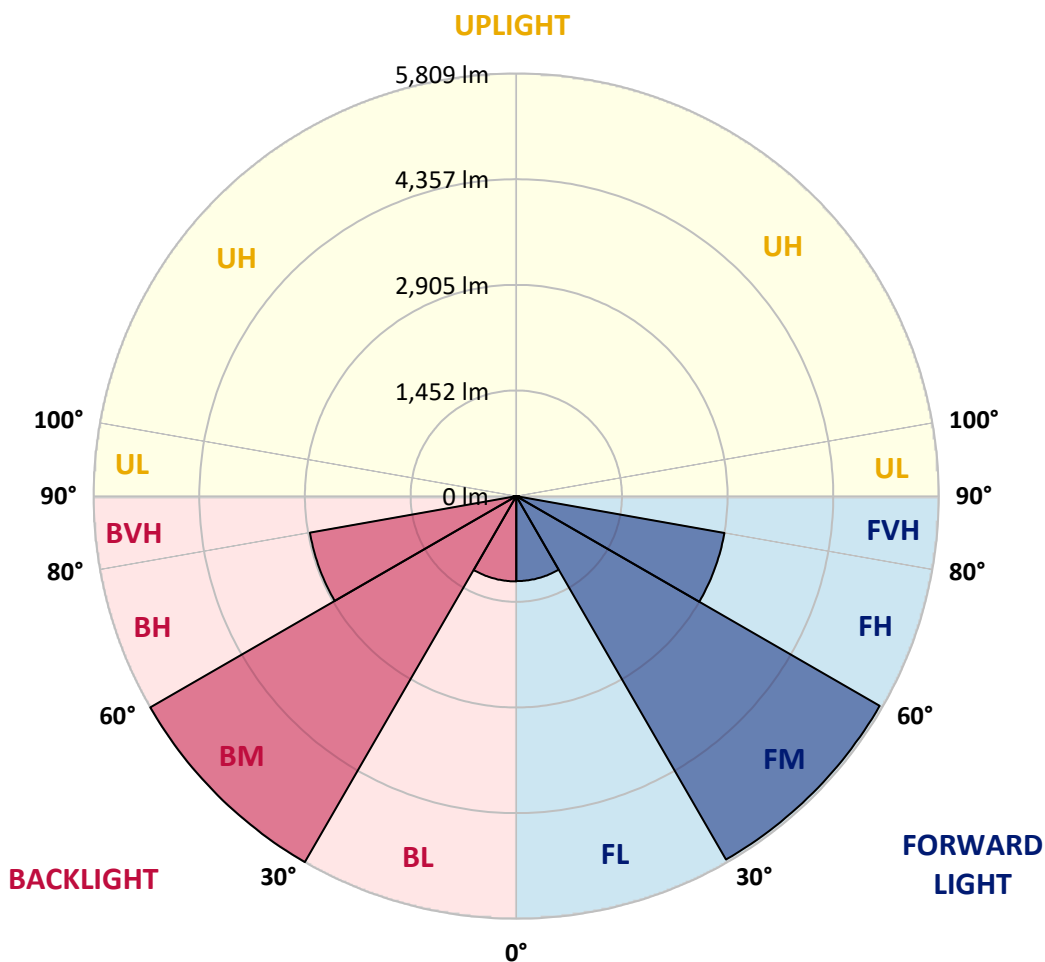
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.9	5.9			
FM (30°-60°)	5767.6	29.1			
FH (60°-80°)	2906.1	14.7			G2/5000
FVH (80°-90°)	43.0	0.2			G1/100
BL (0°-30°)	1172.4	5.9	B3/2500		
BM (30°-60°)	5809.3	29.4	B4/8500		
BH (60°-80°)	2881.0	14.6	B4/5000		G2/5000
BVH (80°-90°)	40.9	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°	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8
2.5°	2289.6	2294.1	2334.9	2319.1	2332.7	2307.7	2325.9	2364.4	2319.1	2353.1	2364.4
5°	2314.5	2321.3	2321.3	2337.2	2346.3	2341.8	2353.1	2337.2	2380.3	2362.2	2389.4
7.5°	2405.3	2393.9	2375.8	2389.4	2391.7	2403.0	2414.4	2434.8	2428.0	2412.1	2439.3
10°	2421.2	2412.1	2439.3	2441.6	2430.2	2421.2	2432.5	2432.5	2452.9	2457.5	2457.5
12.5°	2448.4	2457.5	2455.2	2473.4	2475.6	2468.8	2487.0	2521.0	2511.9	2518.7	2502.9
15°	2552.8	2541.4	2539.2	2557.3	2586.8	2543.7	2575.5	2573.2	2564.1	2577.7	2541.4
17.5°	2643.5	2607.2	2623.1	2652.6	2641.3	2650.4	2691.2	2654.9	2664.0	2648.1	2636.7
20°	2723.0	2693.5	2695.7	2707.1	2707.1	2734.3	2750.2	2736.6	2727.5	2725.2	2729.8
22.5°	2811.5	2777.4	2779.7	2827.3	2843.2	2834.2	2822.8	2845.5	2850.0	2831.9	2852.3
25°	2877.3	2913.6	2924.9	2947.6	2913.6	2938.5	2929.5	2972.6	2999.8	2963.5	2988.5
27.5°	3049.7	3033.8	3063.3	3061.1	3088.3	3063.3	3079.2	3092.8	3104.2	3106.5	3095.1
30°	3204.0	3210.8	3181.3	3260.8	3197.2	3238.1	3265.3	3272.1	3285.7	3285.7	3251.7
32.5°	3367.4	3353.8	3401.4	3383.3	3371.9	3403.7	3374.2	3467.2	3412.8	3444.6	3406.0
35°	3551.2	3551.2	3569.4	3619.3	3551.2	3530.8	3585.2	3623.8	3623.8	3567.1	3580.7
37.5°	3757.7	3739.5	3762.2	3825.8	3773.6	3705.5	3805.3	3821.2	3809.9	3794.0	3766.8
40°	3902.9	3898.4	3943.8	4027.7	3952.8	3939.2	3957.4	4000.5	4014.1	4030.0	3993.7
42.5°	4148.0	4168.4	4300.0	4279.6	4218.3	4170.7	4166.1	4327.2	4288.7	4247.8	4227.4
45°	4511.0	4492.9	4561.0	4563.2	4483.8	4379.4	4402.1	4549.6	4615.4	4524.7	4558.7
47.5°	4799.2	4808.3	4856.0	4953.5	4769.7	4660.8	4744.8	4983.0	4962.6	4928.6	4960.3
50°	5185.0	5225.8	5375.6	5341.6	5178.2	5044.3	5228.1	5452.7	5477.7	5352.9	5330.2
52.5°	5718.2	5781.8	5863.5	5890.7	5734.1	5686.5	5697.8	5976.9	5915.6	5795.4	5718.2
55°	6185.7	6215.2	6364.9	6589.6	6578.2	6349.0	6480.7	6585.0	6335.4	6088.1	6108.5
57.5°	6385.4	6399.0	6816.5	7265.8	7533.5	7585.7	7436.0	7084.3	6489.7	6013.2	5983.7
60°	5888.4	6017.8	6521.5	7535.8	8758.9	9362.5	8366.3	7141.0	6128.9	5550.3	5507.2
62.5°	4706.2	4713.0	5461.8	7000.3	9521.3	11102.9	8722.6	6607.7	5166.8	4511.0	4338.6
64°	3351.5	3415.1	4275.1	6197.0	9362.5	11810.9	8679.5	5911.1	4259.2	3328.8	3208.6
65°	2405.3	2493.8	3324.3	5380.1	8990.3	11726.9	8550.1	5312.1	3444.6	2541.4	2418.9
67.5°	885.0	921.3	1304.8	2691.2	6455.7	9993.3	6775.6	2920.4	1513.5	1077.8	968.9
70°	410.7	413.0	483.3	889.5	2822.8	6682.6	3233.5	1096.0	569.6	451.6	419.8
72.5°	301.8	308.6	338.1	410.7	830.5	2829.6	1062.0	449.3	333.6	295.0	288.2
75°	245.1	249.6	258.7	297.3	383.5	757.9	431.1	310.9	265.5	238.3	229.2
77.5°	188.3	188.3	208.8	226.9	254.1	354.0	285.9	247.3	215.6	188.3	181.5
80°	136.1	138.4	163.4	177.0	172.5	233.7	206.5	204.2	177.0	147.5	136.1
82.5°	79.4	86.2	118.0	127.1	122.5	138.4	149.8	158.8	138.4	102.1	93.0
85°	45.4	47.7	68.1	70.3	70.3	65.8	86.2	95.3	93.0	63.5	56.7
87.5°	13.6	13.6	18.2	18.2	20.4	22.7	34.0	40.8	45.4	31.8	29.5
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°	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8
2.5°	2353.1	2319.1	2321.3	2330.4	2300.9	2312.3	2346.3	2321.3	2314.5	2300.9	2294.1
5°	2341.8	2378.1	2364.4	2369.0	2362.2	2330.4	2325.9	2346.3	2357.6	2337.2	2378.1
7.5°	2421.2	2405.3	2387.1	2393.9	2378.1	2405.3	2423.4	2382.6	2403.0	2391.7	2369.0
10°	2466.6	2437.1	2450.7	2446.1	2434.8	2462.0	2443.9	2439.3	2421.2	2396.2	2432.5
12.5°	2482.4	2516.5	2539.2	2500.6	2507.4	2493.8	2482.4	2482.4	2462.0	2455.2	2462.0
15°	2552.8	2582.3	2573.2	2602.7	2564.1	2577.7	2591.4	2557.3	2575.5	2525.6	2564.1
17.5°	2682.1	2657.2	2688.9	2650.4	2664.0	2691.2	2648.1	2648.1	2661.7	2634.5	2600.4
20°	2763.8	2752.5	2741.1	2743.4	2720.7	2745.7	2732.0	2725.2	2704.8	2713.9	2732.0
22.5°	2841.0	2825.1	2829.6	2836.4	2852.3	2841.0	2834.2	2841.0	2791.0	2836.4	2772.9
25°	2936.3	2979.4	2965.8	2995.3	2949.9	2979.4	2977.1	2934.0	2961.2	2943.1	2929.5
27.5°	3095.1	3072.4	3092.8	3056.5	3088.3	3090.6	3063.3	3135.9	3104.2	3099.6	3090.6
30°	3299.3	3283.4	3269.8	3249.4	3274.4	3253.9	3276.6	3283.4	3253.9	3231.3	3188.1
32.5°	3415.1	3458.2	3474.1	3424.1	3426.4	3437.7	3417.3	3396.9	3415.1	3421.9	3415.1
35°	3578.4	3619.3	3628.4	3589.8	3569.4	3626.1	3585.2	3653.3	3594.3	3596.6	3535.3
37.5°	3769.0	3780.4	3857.5	3814.4	3796.3	3769.0	3843.9	3834.8	3848.5	3739.5	3794.0
40°	3984.6	4025.5	4068.6	3959.6	3957.4	3982.3	3977.8	4030.0	4005.0	3989.1	3950.6
42.5°	4220.6	4306.8	4313.6	4241.0	4195.6	4191.1	4213.8	4329.5	4331.8	4227.4	4182.0
45°	4533.7	4629.0	4604.1	4463.4	4413.5	4406.7	4517.9	4567.8	4610.9	4570.0	4531.5
47.5°	4924.0	4987.6	4969.4	4840.1	4679.0	4724.3	4833.3	4989.8	4944.5	4890.0	4844.6
50°	5341.6	5416.4	5377.9	5248.5	5094.2	5094.2	5228.1	5427.8	5414.2	5307.5	5266.7
52.5°	5804.5	5913.4	6001.9	5818.1	5688.7	5709.2	5920.2	5992.8	5958.8	5883.9	5849.8
55°	6149.4	6358.1	6539.7	6548.7	6555.5	6553.3	6607.7	6680.3	6437.5	6317.3	6194.7
57.5°	6065.4	6460.2	7082.0	7504.0	7628.8	7694.6	7676.5	7340.7	6766.6	6371.7	6412.6
60°	5466.4	6110.8	7113.7	8468.4	9376.1	9285.3	8954.0	7626.6	6585.0	5917.9	5834.0
62.5°	4361.3	5137.3	6580.5	8740.7	11241.3	11214.1	9480.5	6966.3	5486.8	4642.7	4590.5
64°	3285.7	4102.6	5870.3	8670.4	11894.8	11922.1	9346.6	6153.9	4293.2	3285.7	3206.3
65°	2514.2	3272.1	5173.6	8525.2	11754.1	11770.0	8974.4	5314.3	3263.0	2332.7	2246.4
67.5°	1000.7	1393.3	2806.9	6464.8	10093.1	10050.0	6403.5	2570.9	1248.0	812.4	796.5
70°	426.6	531.0	984.8	3063.3	6757.5	6632.7	2757.0	835.0	462.9	388.0	385.8
72.5°	292.7	324.5	422.1	946.2	2809.2	2743.4	785.1	388.0	315.4	290.4	290.4
75°	236.0	258.7	306.3	397.1	744.3	717.0	369.9	285.9	251.9	233.7	231.5
77.5°	183.8	206.5	240.5	274.6	340.4	338.1	247.3	215.6	195.1	181.5	177.0
80°	145.2	167.9	190.6	195.1	222.4	217.8	167.9	170.2	158.8	131.6	129.3
82.5°	99.8	136.1	152.0	138.4	131.6	131.6	120.3	120.3	111.2	81.7	74.9
85°	61.3	90.8	95.3	81.7	61.3	61.3	65.8	63.5	59.0	43.1	40.8
87.5°	31.8	43.1	38.6	31.8	20.4	20.4	18.2	13.6	13.6	11.3	11.3
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)