

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: P478842

Luminaire Tested: **IFLD-M-SA4D-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478842
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

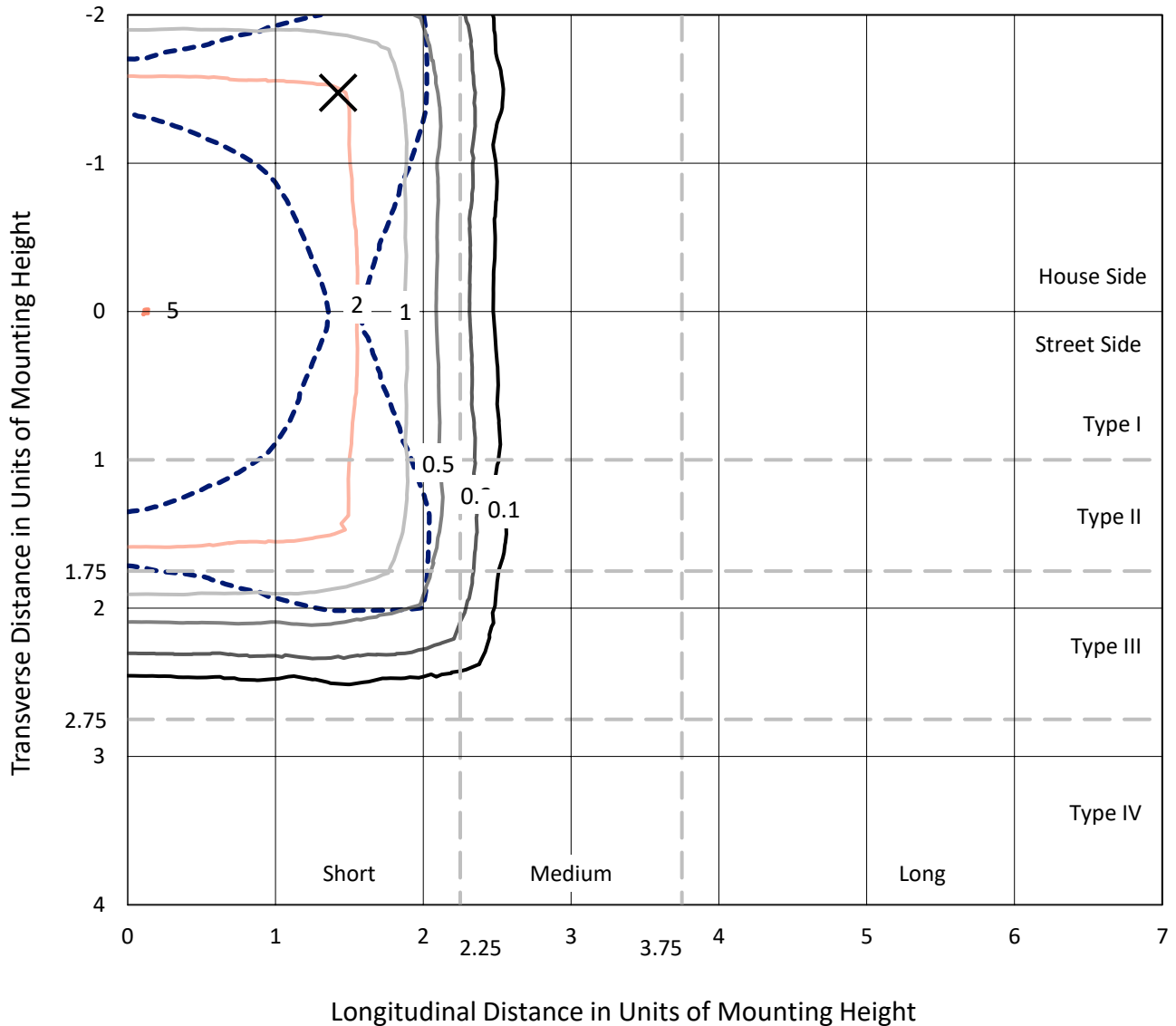
Lumens per Lamp: N/A
Luminaire Lumens: 26094 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

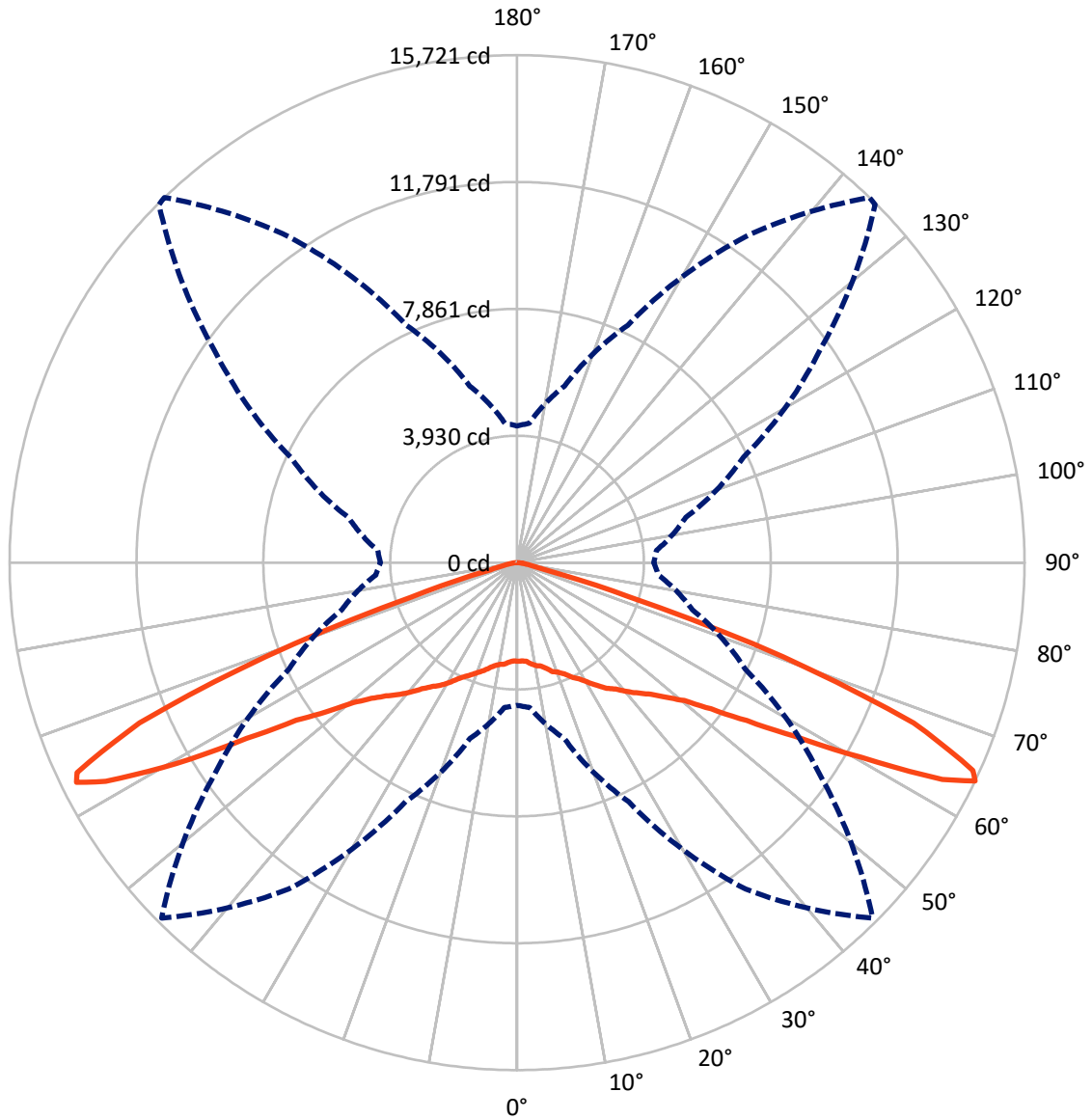
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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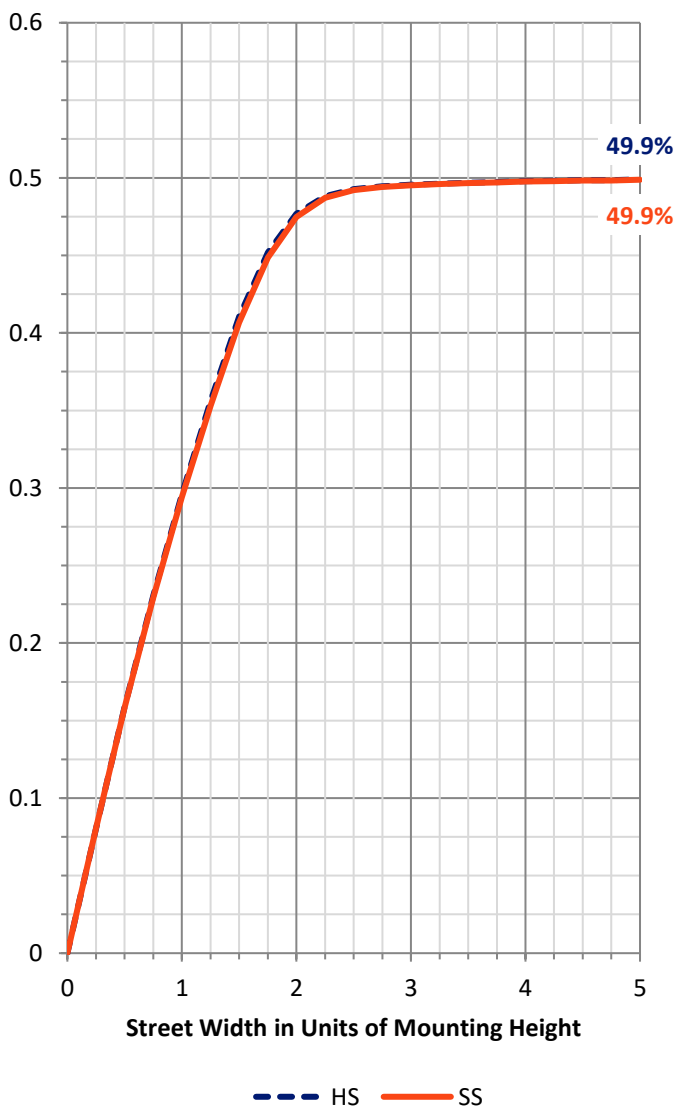
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13059.5	0.0	13059.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13034.6	0.0	13034.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	26094.0	0.0	26094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.2	1.2
10°-20°	967.5	3.7
20°-30°	1818.3	7.0
30°-40°	2998.7	11.5
40°-50°	4689.8	18.0
50°-60°	7577.6	29.0
60°-70°	6823.1	26.1
70°-80°	808.2	3.1
80°-90°	110.6	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°	26094.0	100.0
0°-180°	26094.0	100.0

Coefficient of Utilization



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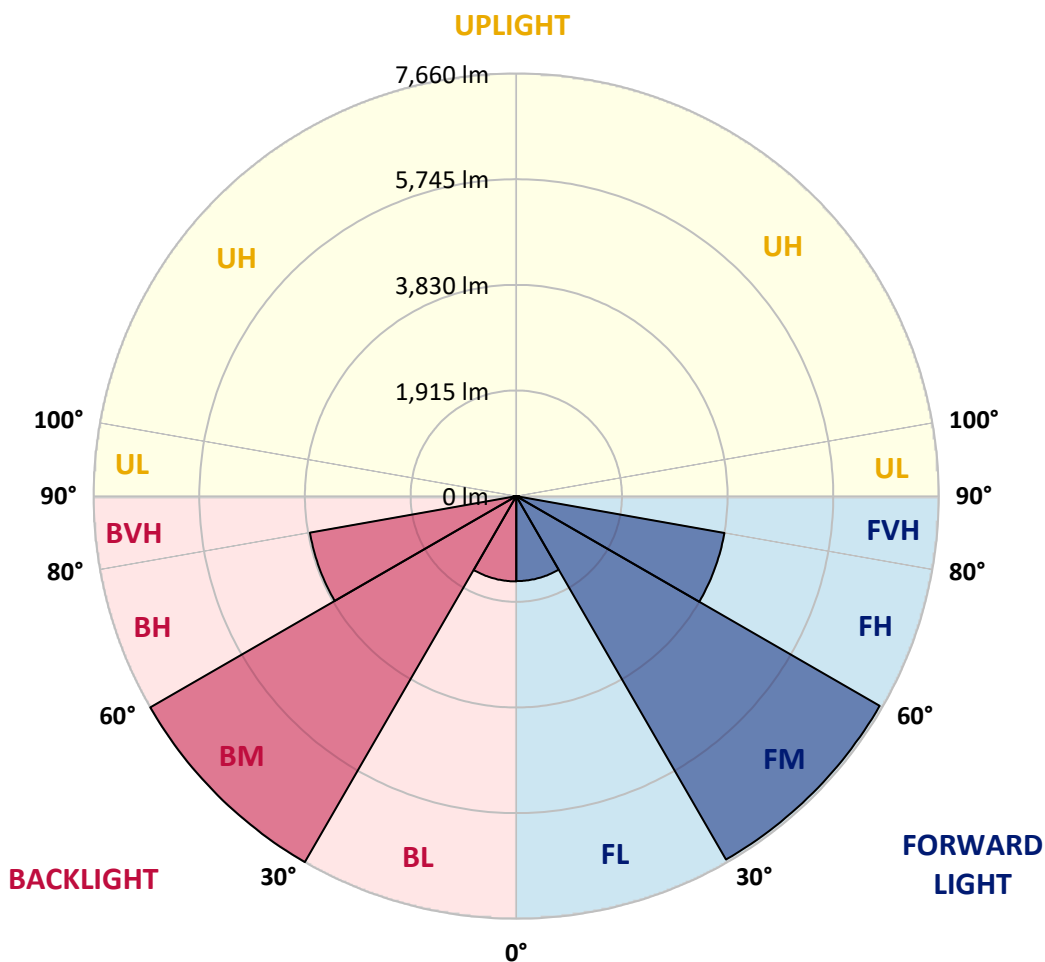
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.0	5.9			
FM (30°-60°)	7605.6	29.1			
FH (60°-80°)	3832.2	14.7			G2/5000
FVH (80°-90°)	56.8	0.2			G1/100
BL (0°-30°)	1546.0	5.9	B3/2500		
BM (30°-60°)	7660.5	29.4	B4/8500		
BH (60°-80°)	3799.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	53.9	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°	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1
2.5°	3019.2	3025.2	3079.0	3058.1	3076.0	3043.1	3067.0	3117.9	3058.1	3103.0	3117.9
5°	3052.1	3061.1	3061.1	3082.0	3094.0	3088.0	3103.0	3082.0	3138.9	3114.9	3150.8
7.5°	3171.8	3156.8	3132.9	3150.8	3153.8	3168.8	3183.7	3210.7	3201.7	3180.7	3216.7
10°	3192.7	3180.7	3216.7	3219.6	3204.7	3192.7	3207.7	3207.7	3234.6	3240.6	3240.6
12.5°	3228.6	3240.6	3237.6	3261.5	3264.5	3255.6	3279.5	3324.4	3312.4	3321.4	3300.4
15°	3366.3	3351.3	3348.3	3372.3	3411.2	3354.3	3396.2	3393.2	3381.2	3399.2	3351.3
17.5°	3486.0	3438.1	3459.0	3497.9	3483.0	3494.9	3548.8	3500.9	3512.9	3491.9	3477.0
20°	3590.7	3551.8	3554.8	3569.7	3569.7	3605.6	3626.6	3608.6	3596.7	3593.7	3599.7
22.5°	3707.4	3662.5	3665.5	3728.3	3749.3	3737.3	3722.3	3752.3	3758.3	3734.3	3761.2
25°	3794.2	3842.0	3857.0	3886.9	3842.0	3874.9	3863.0	3919.8	3955.7	3907.9	3940.8
27.5°	4021.6	4000.6	4039.5	4036.5	4072.4	4039.5	4060.5	4078.4	4093.4	4096.4	4081.4
30°	4225.0	4234.0	4195.1	4299.8	4216.1	4269.9	4305.8	4314.8	4332.8	4332.8	4287.9
32.5°	4440.5	4422.5	4485.4	4461.4	4446.5	4488.4	4449.5	4572.1	4500.3	4542.2	4491.3
35°	4682.9	4682.9	4706.8	4772.6	4682.9	4655.9	4727.7	4778.6	4778.6	4703.8	4721.8
37.5°	4955.1	4931.2	4961.1	5044.9	4976.1	4886.3	5018.0	5038.9	5024.0	5003.0	4967.1
40°	5146.6	5140.7	5200.5	5311.2	5212.5	5194.5	5218.5	5275.3	5293.3	5314.2	5266.3
42.5°	5469.8	5496.7	5670.3	5643.4	5562.6	5499.7	5493.7	5706.2	5655.3	5601.5	5574.5
45°	5948.6	5924.6	6014.4	6017.4	5912.7	5775.0	5804.9	5999.4	6086.2	5966.5	6011.4
47.5°	6328.6	6340.6	6403.4	6532.1	6289.7	6146.1	6256.8	6571.0	6544.0	6499.1	6541.0
50°	6837.3	6891.1	7088.6	7043.7	6828.3	6651.7	6894.1	7190.3	7223.3	7058.7	7028.8
52.5°	7540.4	7624.2	7731.9	7767.8	7561.4	7498.5	7513.5	7881.6	7800.8	7642.2	7540.4
55°	8156.8	8195.7	8393.2	8689.5	8674.5	8372.3	8545.8	8683.5	8354.3	8028.2	8055.1
57.5°	8420.2	8438.1	8988.7	9581.1	9934.2	10003.0	9805.6	9341.8	8557.8	7929.4	7890.5
60°	7764.9	7935.4	8599.7	9937.2	11550.0	12346.0	11032.4	9416.6	8082.0	7319.0	7262.2
62.5°	6205.9	6214.9	7202.3	9231.1	12555.4	14641.0	11502.2	8713.4	6813.3	5948.6	5721.2
64°	4419.5	4503.3	5637.4	8171.8	12346.0	15574.6	11445.3	7794.8	5616.4	4389.6	4231.0
65°	3171.8	3288.5	4383.6	7094.6	11855.2	15463.9	11274.8	7004.8	4542.2	3351.3	3189.7
67.5°	1167.0	1214.8	1720.5	3548.8	8512.9	13177.8	8934.8	3851.0	1995.8	1421.3	1277.7
70°	541.6	544.6	637.3	1173.0	3722.3	8812.1	4263.9	1445.3	751.1	595.5	553.6
72.5°	398.0	406.9	445.8	541.6	1095.2	3731.3	1400.4	592.5	439.9	389.0	380.0
75°	323.2	329.1	341.1	392.0	505.7	999.4	568.5	409.9	350.1	314.2	302.2
77.5°	248.4	248.4	275.3	299.2	335.1	466.8	377.0	326.2	284.3	248.4	239.4
80°	179.5	182.5	215.4	233.4	227.4	308.2	272.3	269.3	233.4	194.5	179.5
82.5°	104.7	113.7	155.6	167.6	161.6	182.5	197.5	209.5	182.5	134.7	122.7
85°	59.8	62.8	89.8	92.8	92.8	86.8	113.7	125.7	122.7	83.8	74.8
87.5°	18.0	18.0	23.9	23.9	26.9	29.9	44.9	53.9	59.8	41.9	38.9
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°	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1
2.5°	3103.0	3058.1	3061.1	3073.0	3034.1	3049.1	3094.0	3061.1	3052.1	3034.1	3025.2
5°	3088.0	3135.9	3117.9	3123.9	3114.9	3073.0	3067.0	3094.0	3108.9	3082.0	3135.9
7.5°	3192.7	3171.8	3147.8	3156.8	3135.9	3171.8	3195.7	3141.8	3168.8	3153.8	3123.9
10°	3252.6	3213.7	3231.6	3225.6	3210.7	3246.6	3222.6	3216.7	3192.7	3159.8	3207.7
12.5°	3273.5	3318.4	3348.3	3297.4	3306.4	3288.5	3273.5	3273.5	3246.6	3237.6	3246.6
15°	3366.3	3405.2	3393.2	3432.1	3381.2	3399.2	3417.1	3372.3	3396.2	3330.4	3381.2
17.5°	3536.8	3503.9	3545.8	3494.9	3512.9	3548.8	3491.9	3491.9	3509.9	3474.0	3429.1
20°	3644.5	3629.6	3614.6	3617.6	3587.7	3620.6	3602.7	3593.7	3566.7	3578.7	3602.7
22.5°	3746.3	3725.3	3731.3	3740.3	3761.2	3746.3	3737.3	3746.3	3680.5	3740.3	3656.5
25°	3872.0	3928.8	3910.9	3949.8	3889.9	3928.8	3925.8	3869.0	3904.9	3880.9	3863.0
27.5°	4081.4	4051.5	4078.4	4030.5	4072.4	4075.4	4039.5	4135.3	4093.4	4087.4	4075.4
30°	4350.7	4329.8	4311.8	4284.9	4317.8	4290.9	4320.8	4329.8	4290.9	4260.9	4204.1
32.5°	4503.3	4560.2	4581.1	4515.3	4518.3	4533.2	4506.3	4479.4	4503.3	4512.3	4503.3
35°	4718.8	4772.6	4784.6	4733.7	4706.8	4781.6	4727.7	4817.5	4739.7	4742.7	4661.9
37.5°	4970.1	4985.1	5086.8	5030.0	5006.0	4970.1	5068.9	5056.9	5074.8	4931.2	5003.0
40°	5254.4	5308.2	5365.1	5221.5	5218.5	5251.4	5245.4	5314.2	5281.3	5260.4	5209.5
42.5°	5565.6	5679.3	5688.2	5592.5	5532.6	5526.7	5556.6	5709.2	5712.2	5574.5	5514.7
45°	5978.5	6104.2	6071.2	5885.7	5819.9	5810.9	5957.5	6023.4	6080.2	6026.4	5975.5
47.5°	6493.2	6576.9	6553.0	6382.4	6170.0	6229.8	6373.5	6579.9	6520.1	6448.3	6388.4
50°	7043.7	7142.5	7091.6	6921.0	6717.6	6717.6	6894.1	7157.4	7139.5	6998.8	6945.0
52.5°	7654.1	7797.8	7914.5	7672.1	7501.5	7528.5	7806.7	7902.5	7857.6	7758.9	7714.0
55°	8109.0	8384.2	8623.6	8635.6	8644.6	8641.6	8713.4	8809.1	8489.0	8330.4	8168.8
57.5°	7998.3	8518.9	9338.8	9895.3	10059.9	10146.7	10122.7	9679.9	8922.9	8402.2	8456.1
60°	7208.3	8058.1	9380.7	11167.0	12363.9	12244.2	11807.4	10056.9	8683.5	7803.8	7693.0
62.5°	5751.1	6774.4	8677.5	11526.1	14823.5	14787.6	12501.6	9186.2	7235.2	6122.1	6053.3
64°	4332.8	5410.0	7740.9	11433.3	15685.3	15721.2	12325.0	8114.9	5661.3	4332.8	4228.0
65°	3315.4	4314.8	6822.3	11241.8	15499.8	15520.7	11834.3	7007.8	4302.8	3076.0	2962.3
67.5°	1319.6	1837.2	3701.4	8524.9	13309.5	13252.6	8444.1	3390.2	1645.7	1071.2	1050.3
70°	562.5	700.2	1298.6	4039.5	8910.9	8746.3	3635.6	1101.1	610.4	511.7	508.7
72.5°	386.0	427.9	556.6	1247.8	3704.4	3617.6	1035.3	511.7	415.9	383.0	383.0
75°	311.2	341.1	404.0	523.6	981.5	945.5	487.7	377.0	332.1	308.2	305.2
77.5°	242.4	272.3	317.2	362.1	448.8	445.8	326.2	284.3	257.3	239.4	233.4
80°	191.5	221.4	251.3	257.3	293.2	287.3	221.4	224.4	209.5	173.5	170.6
82.5°	131.7	179.5	200.5	182.5	173.5	173.5	158.6	158.6	146.6	107.7	98.7
85°	80.8	119.7	125.7	107.7	80.8	80.8	86.8	83.8	77.8	56.9	53.9
87.5°	41.9	56.9	50.9	41.9	26.9	26.9	23.9	18.0	18.0	15.0	15.0
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)