

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: P478806

Luminaire Tested: **IFLD-L-SA7B-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478806
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

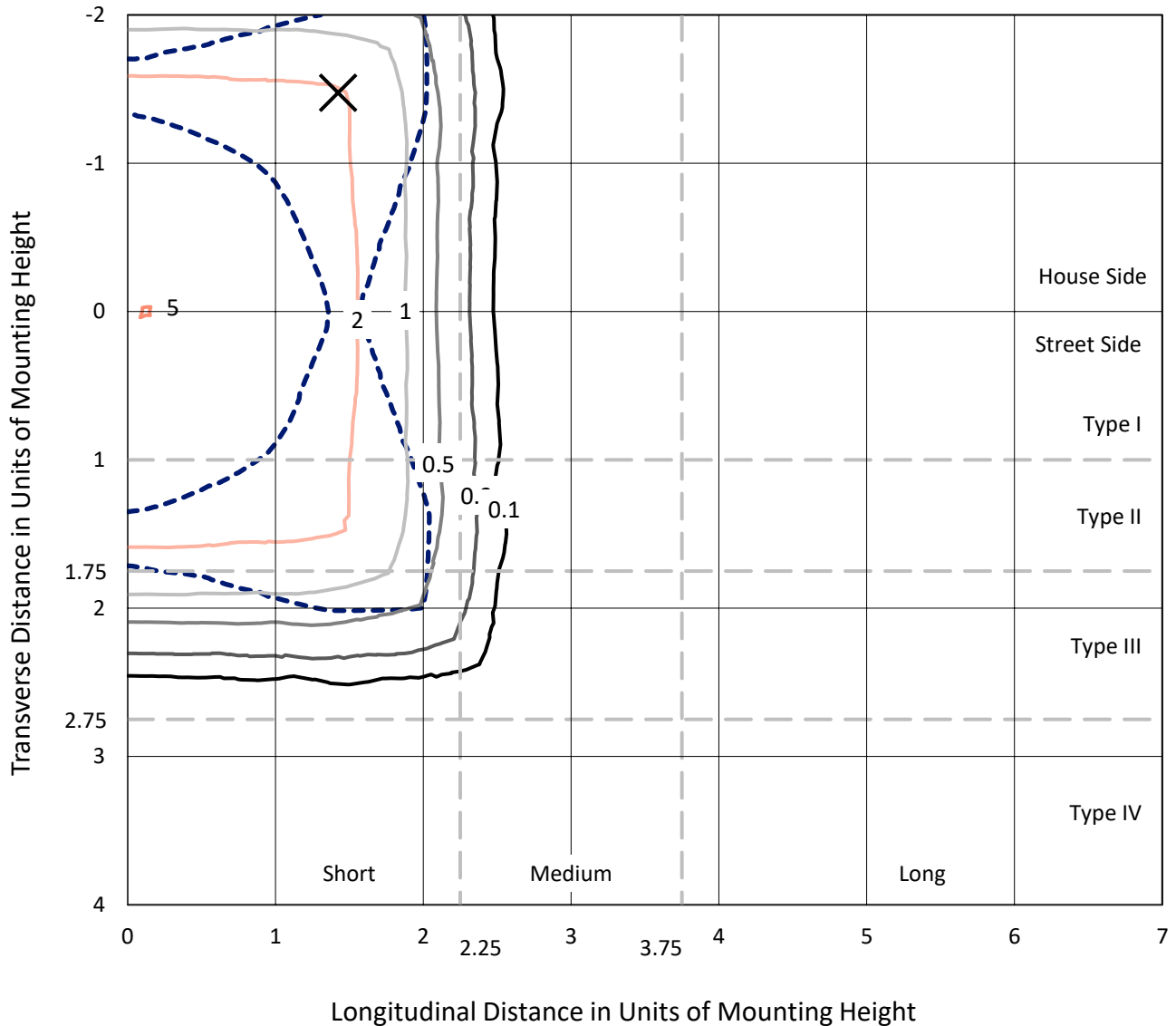
Lumens per Lamp: N/A
Luminaire Lumens: 26162.9 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 281
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

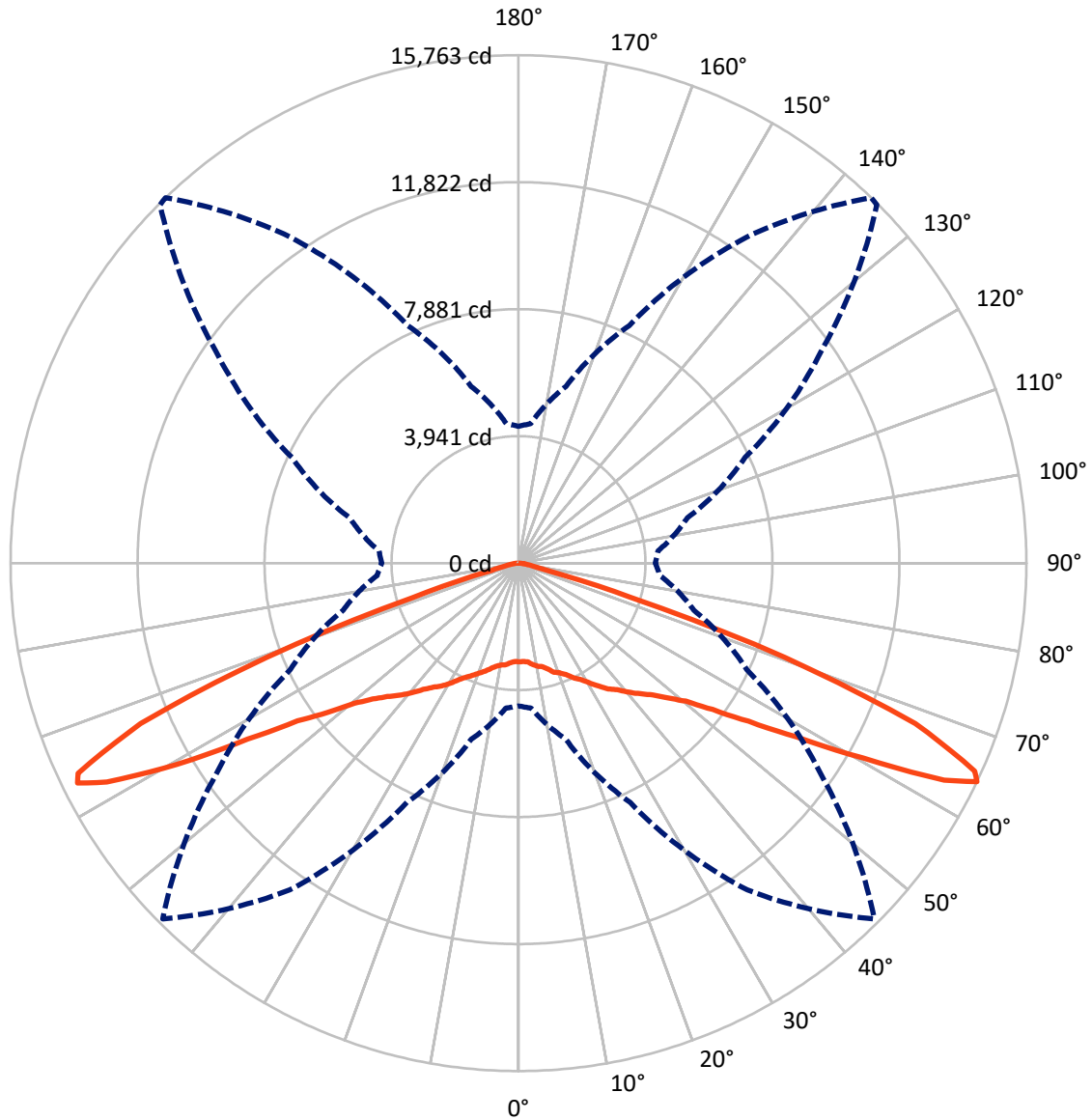
× Max cd
 - - - 1/2 Max cd



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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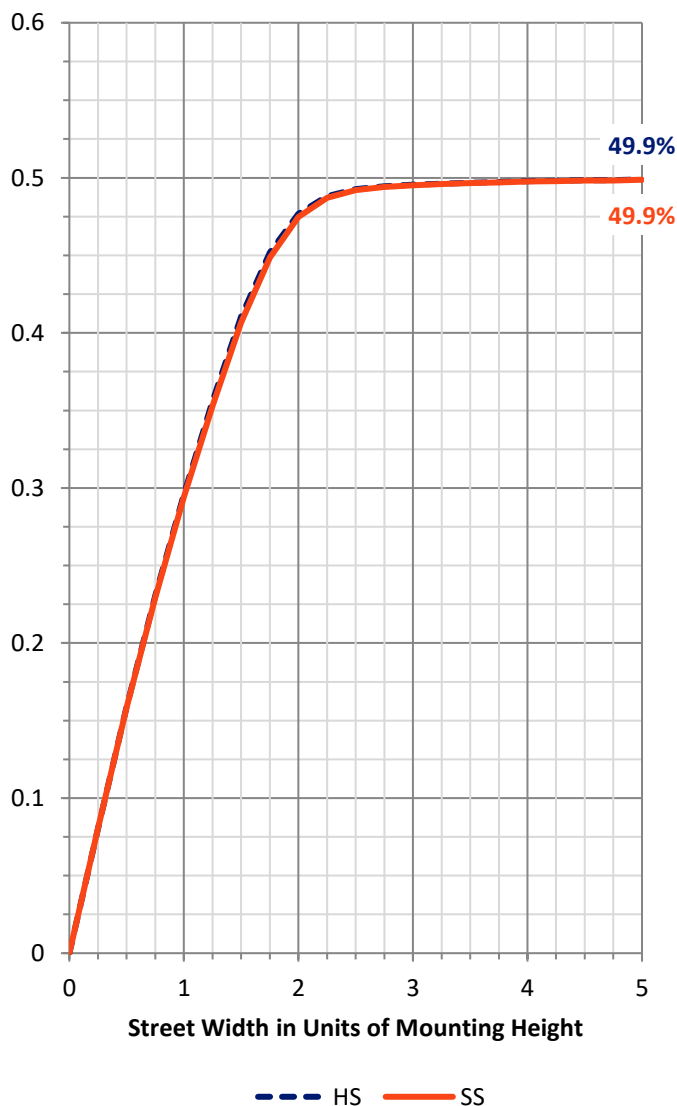
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13093.9	0.0	13093.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13069.0	0.0	13069.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26162.9	0.0	26162.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.0	1.2
10°-20°	970.1	3.7
20°-30°	1823.1	7.0
30°-40°	3006.6	11.5
40°-50°	4702.2	18.0
50°-60°	7597.6	29.0
60°-70°	6841.1	26.1
70°-80°	810.4	3.1
80°-90°	110.9	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°	26162.9	100.0
0°-180°	26162.9	100.0

Coefficient of Utilization



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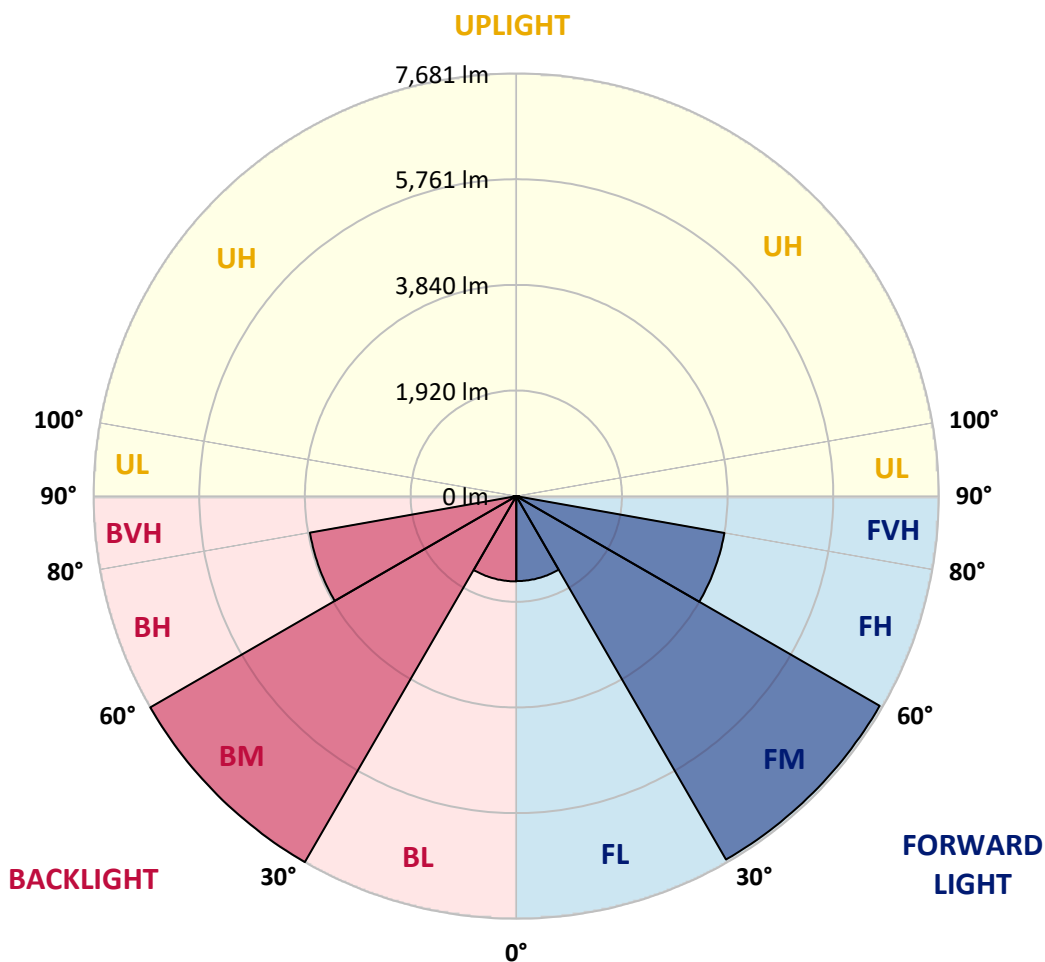
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.1	5.9			
FM (30°-60°)	7625.7	29.1			
FH (60°-80°)	3842.3	14.7			G2/5000
FVH (80°-90°)	56.9	0.2			G1/100
BL (0°-30°)	1550.1	5.9	B3/2500		
BM (30°-60°)	7680.7	29.4	B4/8500		
BH (60°-80°)	3809.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	54.0	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°	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1
2.5°	3027.1	3033.1	3087.1	3066.1	3084.1	3051.1	3075.1	3126.1	3066.1	3111.1	3126.1
5°	3060.1	3069.1	3069.1	3090.1	3102.1	3096.1	3111.1	3090.1	3147.1	3123.1	3159.1
7.5°	3180.1	3165.1	3141.1	3159.1	3162.1	3177.1	3192.2	3219.2	3210.2	3189.2	3225.2
10°	3201.2	3189.2	3225.2	3228.2	3213.2	3201.2	3216.2	3216.2	3243.2	3249.2	3249.2
12.5°	3237.2	3249.2	3246.2	3270.2	3273.2	3264.2	3288.2	3333.2	3321.2	3330.2	3309.2
15°	3375.2	3360.2	3357.2	3381.2	3420.2	3363.2	3405.2	3402.2	3390.2	3408.2	3360.2
17.5°	3495.2	3447.2	3468.2	3507.2	3492.2	3504.2	3558.2	3510.2	3522.2	3501.2	3486.2
20°	3600.2	3561.2	3564.2	3579.2	3579.2	3615.2	3636.2	3618.2	3606.2	3603.2	3609.2
22.5°	3717.2	3672.2	3675.2	3738.2	3759.2	3747.2	3732.2	3762.2	3768.2	3744.2	3771.2
25°	3804.2	3852.2	3867.2	3897.2	3852.2	3885.2	3873.2	3930.2	3966.2	3918.2	3951.2
27.5°	4032.2	4011.2	4050.2	4047.2	4083.2	4050.2	4071.2	4089.2	4104.2	4107.2	4092.2
30°	4236.2	4245.2	4206.2	4311.2	4227.2	4281.2	4317.2	4326.2	4344.2	4344.2	4299.2
32.5°	4452.2	4434.2	4497.2	4473.2	4458.2	4500.2	4461.2	4584.2	4512.2	4554.2	4503.2
35°	4695.2	4695.2	4719.2	4785.2	4695.2	4668.2	4740.2	4791.2	4791.2	4716.2	4734.2
37.5°	4968.2	4944.2	4974.2	5058.2	4989.2	4899.2	5031.2	5052.2	5037.2	5016.2	4980.2
40°	5160.2	5154.2	5214.2	5325.3	5226.2	5208.2	5232.2	5289.2	5307.3	5328.3	5280.2
42.5°	5484.3	5511.3	5685.3	5658.3	5577.3	5514.3	5508.3	5721.3	5670.3	5616.3	5589.3
45°	5964.3	5940.3	6030.3	6033.3	5928.3	5790.3	5820.3	6015.3	6102.3	5982.3	6027.3
47.5°	6345.3	6357.3	6420.3	6549.3	6306.3	6162.3	6273.3	6588.3	6561.3	6516.3	6558.3
50°	6855.3	6909.3	7107.3	7062.3	6846.3	6669.3	6912.3	7209.3	7242.3	7077.3	7047.3
52.5°	7560.4	7644.4	7752.4	7788.4	7581.4	7518.4	7533.4	7902.4	7821.4	7662.4	7560.4
55°	8178.4	8217.4	8415.4	8712.4	8697.4	8394.4	8568.4	8706.4	8376.4	8049.4	8076.4
57.5°	8442.4	8460.4	9012.4	9606.5	9960.5	10029.5	9831.5	9366.4	8580.4	7950.4	7911.4
60°	7785.4	7956.4	8622.4	9963.5	11580.5	12378.6	11061.5	9441.4	8103.4	7338.3	7281.3
62.5°	6222.3	6231.3	7221.3	9255.4	12588.6	14679.7	11532.5	8736.4	6831.3	5964.3	5736.3
64°	4431.2	4515.2	5652.3	8193.4	12378.6	15615.7	11475.5	7815.4	5631.3	4401.2	4242.2
65°	3180.1	3297.2	4395.2	7113.3	11886.6	15504.7	11304.5	7023.3	4554.2	3360.2	3198.2
67.5°	1170.1	1218.1	1725.1	3558.2	8535.4	13212.6	8958.4	3861.2	2001.1	1425.1	1281.1
70°	543.0	546.0	639.0	1176.1	3732.2	8835.4	4275.2	1449.1	753.0	597.0	555.0
72.5°	399.0	408.0	447.0	543.0	1098.1	3741.2	1404.1	594.0	441.0	390.0	381.0
75°	324.0	330.0	342.0	393.0	507.0	1002.0	570.0	411.0	351.0	315.0	303.0
77.5°	249.0	249.0	276.0	300.0	336.0	468.0	378.0	327.0	285.0	249.0	240.0
80°	180.0	183.0	216.0	234.0	228.0	309.0	273.0	270.0	234.0	195.0	180.0
82.5°	105.0	114.0	156.0	168.0	162.0	183.0	198.0	210.0	183.0	135.0	123.0
85°	60.0	63.0	90.0	93.0	93.0	87.0	114.0	126.0	123.0	84.0	75.0
87.5°	18.0	18.0	24.0	24.0	27.0	30.0	45.0	54.0	60.0	42.0	39.0
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°	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1
2.5°	3111.1	3066.1	3069.1	3081.1	3042.1	3057.1	3102.1	3069.1	3060.1	3042.1	3033.1
5°	3096.1	3144.1	3126.1	3132.1	3123.1	3081.1	3075.1	3102.1	3117.1	3090.1	3144.1
7.5°	3201.2	3180.1	3156.1	3165.1	3144.1	3180.1	3204.2	3150.1	3177.1	3162.1	3132.1
10°	3261.2	3222.2	3240.2	3234.2	3219.2	3255.2	3231.2	3225.2	3201.2	3168.1	3216.2
12.5°	3282.2	3327.2	3357.2	3306.2	3315.2	3297.2	3282.2	3282.2	3255.2	3246.2	3255.2
15°	3375.2	3414.2	3402.2	3441.2	3390.2	3408.2	3426.2	3381.2	3405.2	3339.2	3390.2
17.5°	3546.2	3513.2	3555.2	3504.2	3522.2	3558.2	3501.2	3501.2	3519.2	3483.2	3438.2
20°	3654.2	3639.2	3624.2	3627.2	3597.2	3630.2	3612.2	3603.2	3576.2	3588.2	3612.2
22.5°	3756.2	3735.2	3741.2	3750.2	3771.2	3756.2	3747.2	3756.2	3690.2	3750.2	3666.2
25°	3882.2	3939.2	3921.2	3960.2	3900.2	3939.2	3936.2	3879.2	3915.2	3891.2	3873.2
27.5°	4092.2	4062.2	4089.2	4041.2	4083.2	4086.2	4050.2	4146.2	4104.2	4098.2	4086.2
30°	4362.2	4341.2	4323.2	4296.2	4329.2	4302.2	4332.2	4341.2	4302.2	4272.2	4215.2
32.5°	4515.2	4572.2	4593.2	4527.2	4530.2	4545.2	4518.2	4491.2	4515.2	4524.2	4515.2
35°	4731.2	4785.2	4797.2	4746.2	4719.2	4794.2	4740.2	4830.2	4752.2	4755.2	4674.2
37.5°	4983.2	4998.2	5100.2	5043.2	5019.2	4983.2	5082.2	5070.2	5088.2	4944.2	5016.2
40°	5268.2	5322.3	5379.3	5235.2	5232.2	5265.2	5259.2	5328.3	5295.2	5274.2	5223.2
42.5°	5580.3	5694.3	5703.3	5607.3	5547.3	5541.3	5571.3	5724.3	5727.3	5589.3	5529.3
45°	5994.3	6120.3	6087.3	5901.3	5835.3	5826.3	5973.3	6039.3	6096.3	6042.3	5991.3
47.5°	6510.3	6594.3	6570.3	6399.3	6186.3	6246.3	6390.3	6597.3	6537.3	6465.3	6405.3
50°	7062.3	7161.3	7110.3	6939.3	6735.3	6735.3	6912.3	7176.3	7158.3	7017.3	6963.3
52.5°	7674.4	7818.4	7935.4	7692.4	7521.4	7548.4	7827.4	7923.4	7878.4	7779.4	7734.4
55°	8130.4	8406.4	8646.4	8658.4	8667.4	8664.4	8736.4	8832.4	8511.4	8352.4	8190.4
57.5°	8019.4	8541.4	9363.4	9921.5	10086.5	10173.5	10149.5	9705.5	8946.4	8424.4	8478.4
60°	7227.3	8079.4	9405.4	11196.5	12396.6	12276.6	11838.6	10083.5	8706.4	7824.4	7713.4
62.5°	5766.3	6792.3	8700.4	11556.5	14862.7	14826.7	12534.6	9210.4	7254.3	6138.3	6069.3
64°	4344.2	5424.3	7761.4	11463.5	15726.7	15762.7	12357.6	8136.4	5676.3	4344.2	4239.2
65°	3324.2	4326.2	6840.3	11271.5	15540.7	15561.7	11865.6	7026.3	4314.2	3084.1	2970.1
67.5°	1323.1	1842.1	3711.2	8547.4	13344.6	13287.6	8466.4	3399.2	1650.1	1074.1	1053.0
70°	564.0	702.0	1302.1	4050.2	8934.4	8769.4	3645.2	1104.1	612.0	513.0	510.0
72.5°	387.0	429.0	558.0	1251.1	3714.2	3627.2	1038.0	513.0	417.0	384.0	384.0
75°	312.0	342.0	405.0	525.0	984.0	948.0	489.0	378.0	333.0	309.0	306.0
77.5°	243.0	273.0	318.0	363.0	450.0	447.0	327.0	285.0	258.0	240.0	234.0
80°	192.0	222.0	252.0	258.0	294.0	288.0	222.0	225.0	210.0	174.0	171.0
82.5°	132.0	180.0	201.0	183.0	174.0	174.0	159.0	159.0	147.0	108.0	99.0
85°	81.0	120.0	126.0	108.0	81.0	81.0	87.0	84.0	78.0	57.0	54.0
87.5°	42.0	57.0	51.0	42.0	27.0	27.0	24.0	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)