

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: P479116

Luminaire Tested: **IFLD-M-SA4E-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479116
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

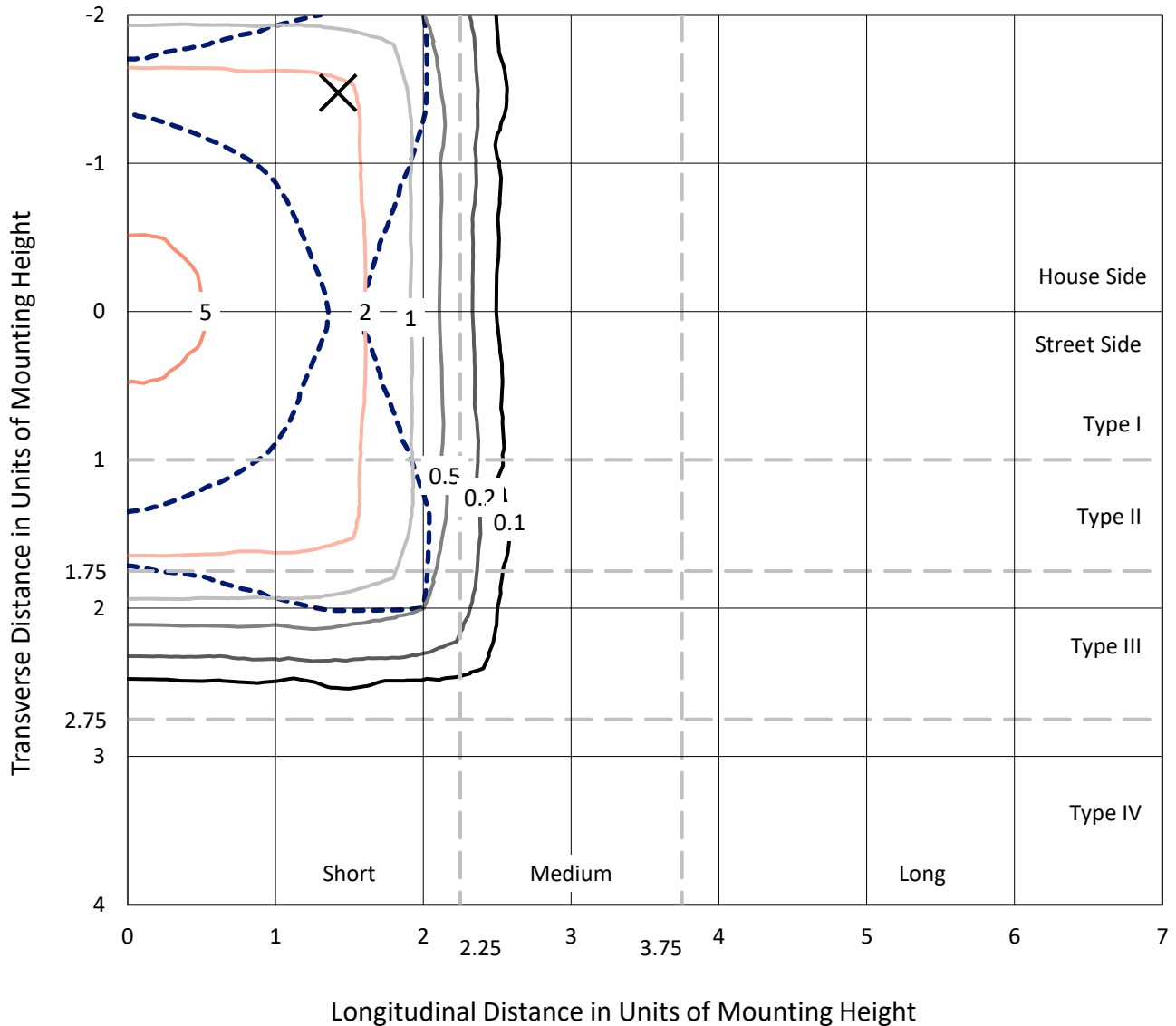
Lumens per Lamp: N/A
Luminaire Lumens: 28692.6 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 314.8
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

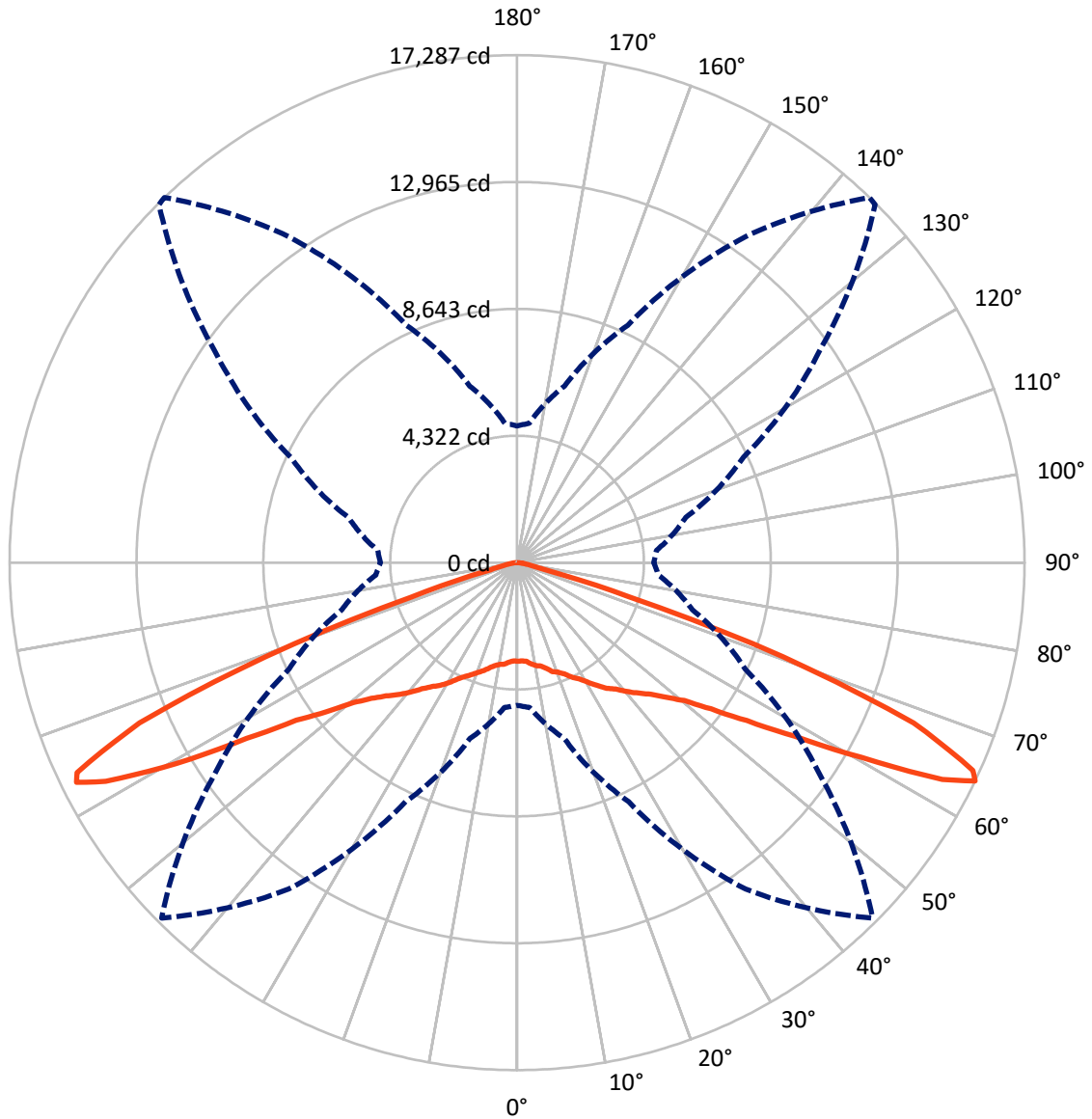
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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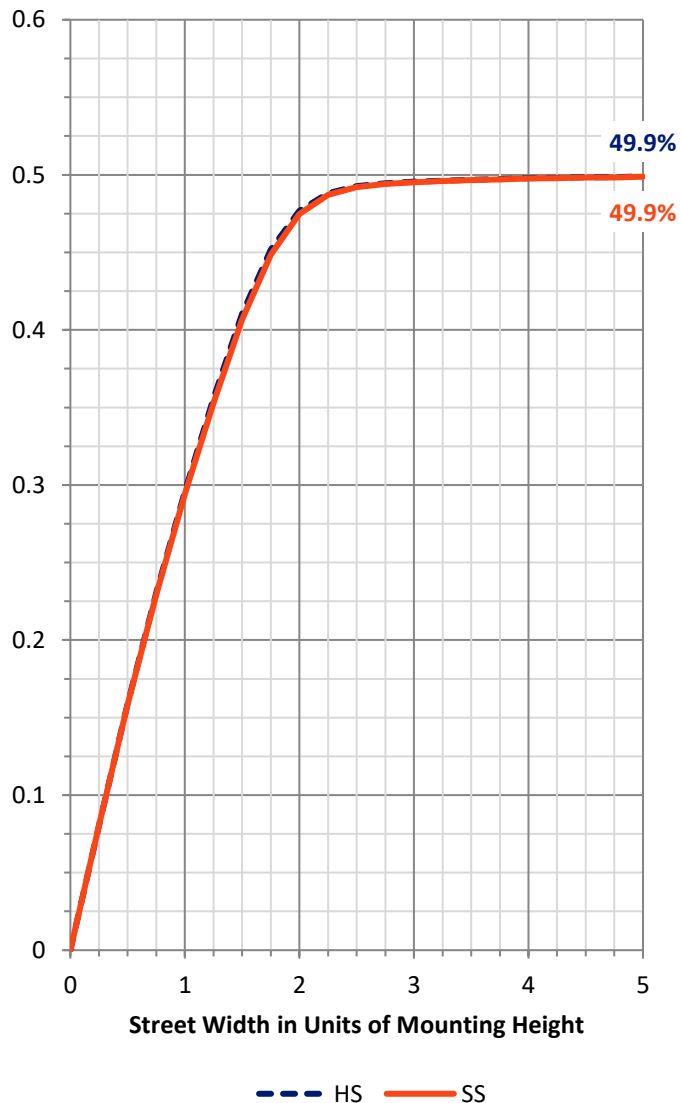
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14360.0	0.0	14360.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14332.6	0.0	14332.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	28692.6	0.0	28692.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.2
10°-20°	1063.8	3.7
20°-30°	1999.4	7.0
30°-40°	3297.3	11.5
40°-50°	5156.8	18.0
50°-60°	8332.2	29.0
60°-70°	7502.6	26.1
70°-80°	888.7	3.1
80°-90°	121.6	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°	28692.6	100.0
0°-180°	28692.6	100.0

Coefficient of Utilization



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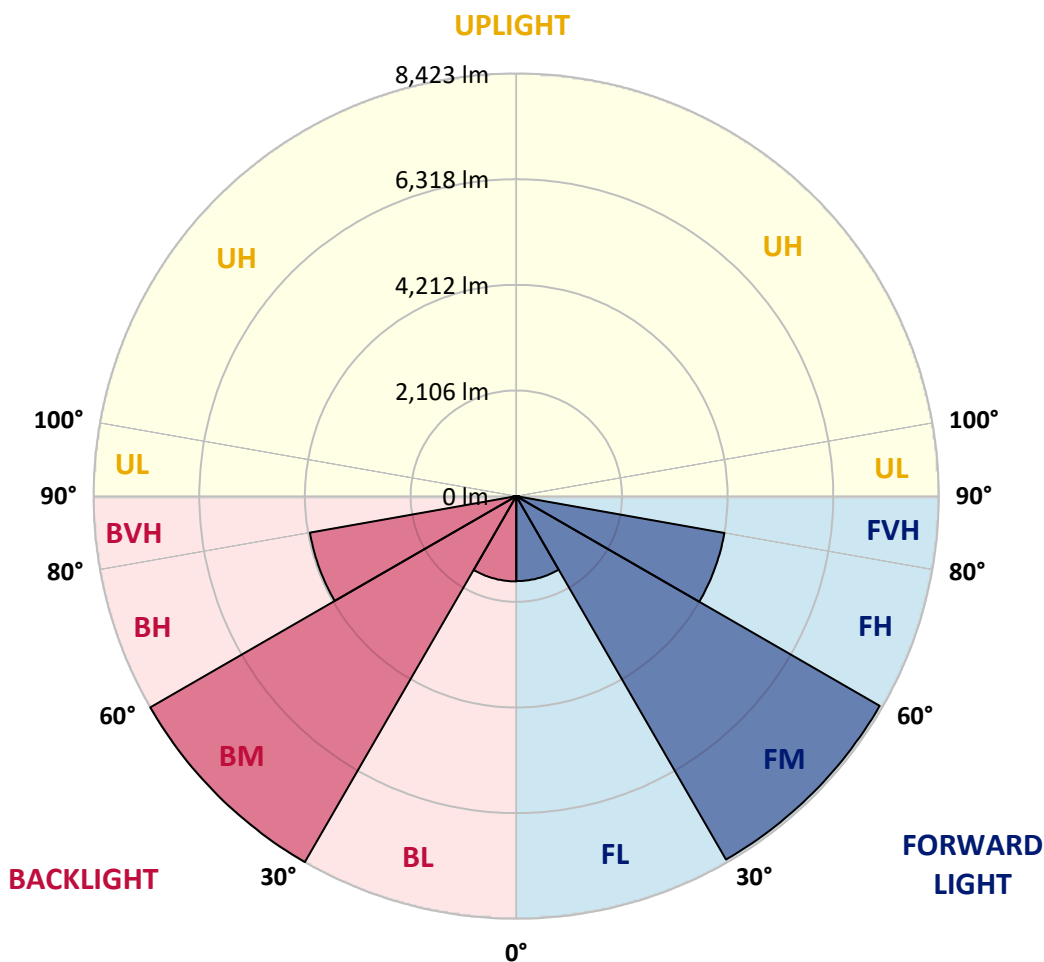
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.4	5.9			
FM (30°-60°)	8363.0	29.1			
FH (60°-80°)	4213.8	14.7			G2/5000
FVH (80°-90°)	62.4	0.2			G1/100
BL (0°-30°)	1699.9	5.9	B3/2500		
BM (30°-60°)	8423.3	29.4	B4/8500		
BH (60°-80°)	4177.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	59.2	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°	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3
2.5°	3319.8	3326.4	3385.6	3362.6	3382.3	3346.2	3372.5	3428.4	3362.6	3412.0	3428.4
5°	3356.0	3365.9	3365.9	3388.9	3402.1	3395.5	3412.0	3388.9	3451.4	3425.1	3464.6
7.5°	3487.6	3471.2	3444.9	3464.6	3467.9	3484.3	3500.8	3530.4	3520.5	3497.5	3537.0
10°	3510.7	3497.5	3537.0	3540.3	3523.8	3510.7	3527.1	3527.1	3556.7	3563.3	3563.3
12.5°	3550.1	3563.3	3560.0	3586.3	3589.6	3579.8	3606.1	3655.4	3642.3	3652.1	3629.1
15°	3701.5	3685.0	3681.8	3708.1	3750.9	3688.3	3734.4	3731.1	3717.9	3737.7	3685.0
17.5°	3833.1	3780.5	3803.5	3846.3	3829.8	3843.0	3902.2	3849.6	3862.7	3839.7	3823.2
20°	3948.3	3905.5	3908.8	3925.2	3925.2	3964.7	3987.7	3968.0	3954.8	3951.6	3958.1
22.5°	4076.6	4027.2	4030.5	4099.6	4122.6	4109.5	4093.0	4125.9	4132.5	4106.2	4135.8
25°	4172.0	4224.6	4241.1	4274.0	4224.6	4260.8	4247.7	4310.2	4349.7	4297.0	4333.2
27.5°	4422.1	4399.0	4441.8	4438.5	4478.0	4441.8	4464.8	4484.6	4501.0	4504.3	4487.9
30°	4645.8	4655.7	4612.9	4728.0	4635.9	4695.1	4734.6	4744.5	4764.2	4764.2	4714.9
32.5°	4882.7	4862.9	4932.0	4905.7	4889.3	4935.3	4892.6	5027.5	4948.5	4994.6	4938.6
35°	5149.2	5149.2	5175.5	5247.9	5149.2	5119.6	5198.5	5254.5	5254.5	5172.2	5192.0
37.5°	5448.6	5422.3	5455.2	5547.3	5471.6	5372.9	5517.7	5540.7	5524.3	5501.2	5461.8
40°	5659.2	5652.6	5718.4	5840.1	5731.6	5711.8	5738.1	5800.7	5820.4	5843.4	5790.8
42.5°	6014.5	6044.1	6235.0	6205.4	6116.5	6047.4	6040.8	6274.4	6218.5	6159.3	6129.7
45°	6541.0	6514.6	6613.3	6616.6	6501.5	6350.1	6383.0	6596.9	6692.3	6560.7	6610.1
47.5°	6958.8	6972.0	7041.1	7182.5	6916.0	6758.1	6879.8	7225.3	7195.7	7146.4	7192.4
50°	7518.2	7577.4	7794.5	7745.2	7508.3	7314.2	7580.7	7906.4	7942.6	7761.6	7728.7
52.5°	8291.4	8383.5	8501.9	8541.4	8314.4	8245.3	8261.7	8666.4	8577.6	8403.2	8291.4
55°	8969.1	9011.9	9229.1	9554.8	9538.3	9206.0	9396.9	9548.2	9186.3	8827.7	8857.3
57.5°	9258.7	9278.4	9883.8	10535.3	10923.5	10999.2	10782.0	10272.1	9410.0	8719.1	8676.3
60°	8538.1	8725.7	9456.1	10926.8	12700.2	13575.4	12131.0	10354.3	8886.9	8047.9	7985.4
62.5°	6823.9	6833.8	7919.6	10150.3	13805.8	16099.0	12647.6	9581.1	7491.8	6541.0	6290.9
64°	4859.7	4951.8	6198.8	8985.6	13575.4	17125.6	12585.1	8571.0	6175.7	4826.8	4652.4
65°	3487.6	3616.0	4820.2	7801.1	13035.8	17003.9	12397.5	7702.4	4994.6	3685.0	3507.4
67.5°	1283.2	1335.8	1891.9	3902.2	9360.7	14490.1	9824.6	4234.5	2194.6	1562.9	1404.9
70°	595.5	598.8	700.8	1289.8	4093.0	9689.7	4688.6	1589.2	825.8	654.8	608.7
72.5°	437.6	447.5	490.2	595.5	1204.2	4102.9	1539.8	651.5	483.7	427.7	417.9
75°	355.3	361.9	375.1	431.0	556.0	1098.9	625.1	450.8	385.0	345.5	332.3
77.5°	273.1	273.1	302.7	329.0	368.5	513.3	414.6	358.6	312.6	273.1	263.2
80°	197.4	200.7	236.9	256.6	250.1	338.9	299.4	296.1	256.6	213.9	197.4
82.5°	115.2	125.0	171.1	184.3	177.7	200.7	217.2	230.3	200.7	148.1	134.9
85°	65.8	69.1	98.7	102.0	102.0	95.4	125.0	138.2	134.9	92.1	82.3
87.5°	19.7	19.7	26.3	26.3	29.6	32.9	49.4	59.2	65.8	46.1	42.8
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°	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3
2.5°	3412.0	3362.6	3365.9	3379.1	3336.3	3352.7	3402.1	3365.9	3356.0	3336.3	3326.4
5°	3395.5	3448.1	3428.4	3435.0	3425.1	3379.1	3372.5	3402.1	3418.5	3388.9	3448.1
7.5°	3510.7	3487.6	3461.3	3471.2	3448.1	3487.6	3514.0	3454.7	3484.3	3467.9	3435.0
10°	3576.5	3533.7	3553.4	3546.9	3530.4	3569.9	3543.6	3537.0	3510.7	3474.5	3527.1
12.5°	3599.5	3648.9	3681.8	3625.8	3635.7	3616.0	3599.5	3599.5	3569.9	3560.0	3569.9
15°	3701.5	3744.3	3731.1	3773.9	3717.9	3737.7	3757.4	3708.1	3734.4	3662.0	3717.9
17.5°	3889.0	3852.8	3898.9	3843.0	3862.7	3902.2	3839.7	3839.7	3859.4	3819.9	3770.6
20°	4007.5	3991.0	3974.6	3977.9	3945.0	3981.2	3961.4	3951.6	3921.9	3935.1	3961.4
22.5°	4119.4	4096.3	4102.9	4112.8	4135.8	4119.4	4109.5	4119.4	4047.0	4112.8	4020.6
25°	4257.5	4320.1	4300.3	4343.1	4277.3	4320.1	4316.8	4254.3	4293.7	4267.4	4247.7
27.5°	4487.9	4455.0	4484.6	4431.9	4478.0	4481.3	4441.8	4547.1	4501.0	4494.4	4481.3
30°	4784.0	4760.9	4741.2	4711.6	4747.8	4718.2	4751.1	4760.9	4718.2	4685.3	4622.8
32.5°	4951.8	5014.3	5037.3	4964.9	4968.2	4984.7	4955.1	4925.5	4951.8	4961.7	4951.8
35°	5188.7	5247.9	5261.1	5205.1	5175.5	5257.8	5198.5	5297.3	5211.7	5215.0	5126.2
37.5°	5465.1	5481.5	5593.4	5530.9	5504.5	5465.1	5573.6	5560.5	5580.2	5422.3	5501.2
40°	5777.6	5836.8	5899.4	5741.4	5738.1	5774.3	5767.8	5843.4	5807.2	5784.2	5728.3
42.5°	6119.8	6244.8	6254.7	6149.4	6083.6	6077.0	6109.9	6277.7	6281.0	6129.7	6063.9
45°	6573.9	6712.0	6675.9	6471.9	6399.5	6389.6	6550.8	6623.2	6685.7	6626.5	6570.6
47.5°	7139.8	7231.9	7205.6	7018.0	6784.4	6850.2	7008.2	7235.2	7169.4	7090.4	7024.6
50°	7745.2	7853.8	7797.8	7610.3	7386.5	7386.5	7580.7	7870.2	7850.5	7695.8	7636.6
52.5°	8416.4	8574.3	8702.6	8436.1	8248.6	8278.2	8584.2	8689.5	8640.1	8531.5	8482.2
55°	8916.5	9219.2	9482.4	9495.6	9505.4	9502.2	9581.1	9686.4	9334.4	9160.0	8982.3
57.5°	8794.8	9367.3	10268.8	10880.8	11061.7	11157.1	11130.8	10643.9	9811.4	9238.9	9298.2
60°	7926.1	8860.6	10314.8	12279.1	13595.2	13463.6	12983.2	11058.4	9548.2	8580.9	8459.2
62.5°	6323.8	7449.1	9541.6	12673.9	16299.7	16260.3	13746.5	10101.0	7955.8	6731.8	6656.1
64°	4764.2	5948.7	8511.8	12571.9	17247.3	17286.8	13552.4	8923.1	6225.1	4764.2	4649.1
65°	3645.6	4744.5	7501.7	12361.4	17043.3	17066.4	13012.8	7705.7	4731.3	3382.3	3257.3
67.5°	1451.0	2020.2	4070.0	9373.8	14634.9	14572.4	9285.0	3727.8	1809.6	1177.9	1154.9
70°	618.6	769.9	1428.0	4441.8	9798.3	9617.3	3997.6	1210.8	671.2	562.6	559.3
72.5°	424.4	470.5	612.0	1372.0	4073.3	3977.9	1138.4	562.6	457.3	421.1	421.1
75°	342.2	375.1	444.2	575.8	1079.2	1039.7	536.3	414.6	365.2	338.9	335.6
77.5°	266.5	299.4	348.8	398.1	493.5	490.2	358.6	312.6	283.0	263.2	256.6
80°	210.6	243.5	276.4	283.0	322.4	315.9	243.5	246.8	230.3	190.8	187.5
82.5°	144.8	197.4	220.4	200.7	190.8	190.8	174.4	174.4	161.2	118.4	108.6
85°	88.8	131.6	138.2	118.4	88.8	88.8	95.4	92.1	85.5	62.5	59.2
87.5°	46.1	62.5	55.9	46.1	29.6	29.6	26.3	19.7	19.7	16.5	16.5
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)