

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: P478997

Luminaire Tested: **IFLD-M-SA4C-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478997
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29006.4 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

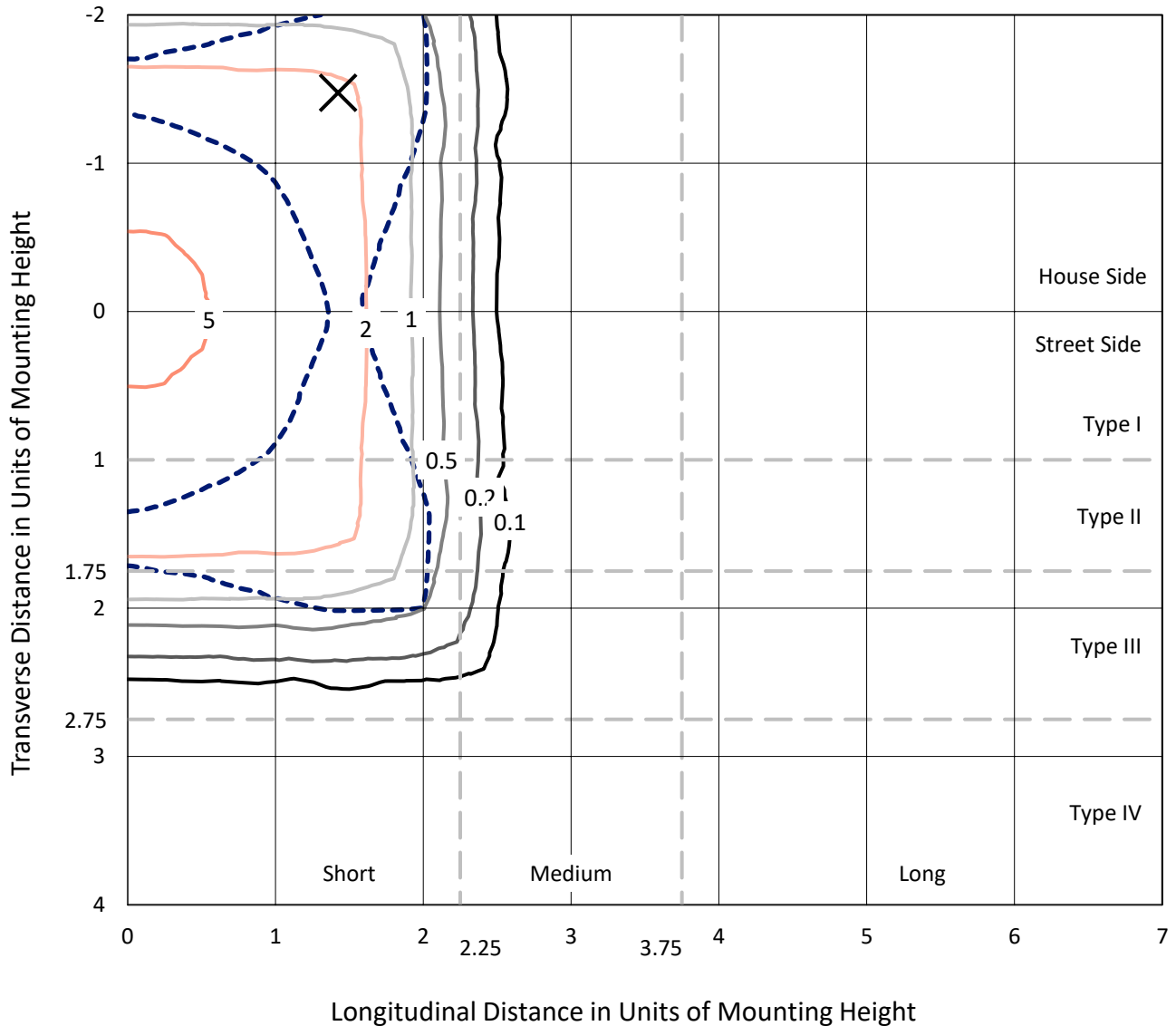
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

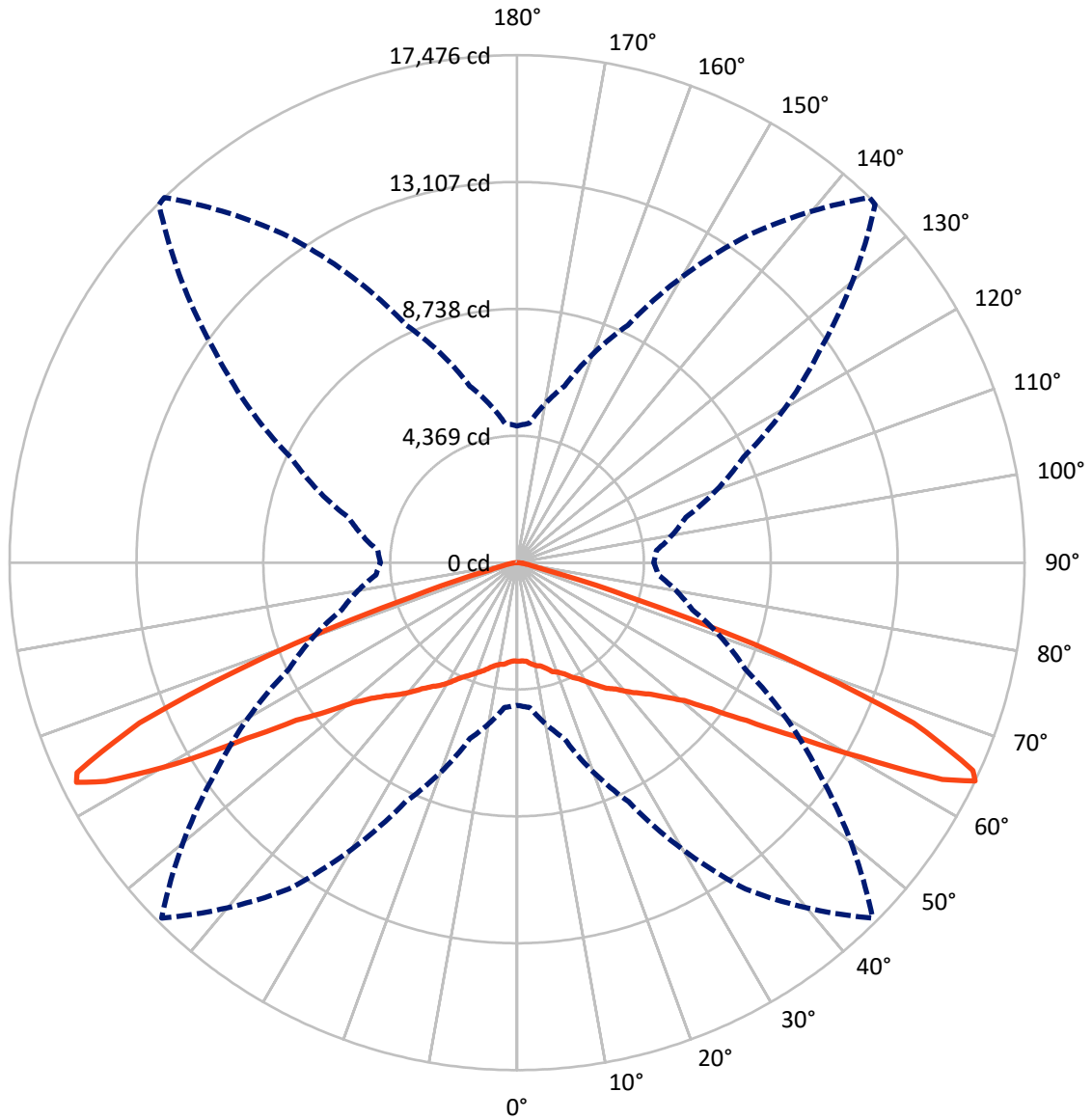
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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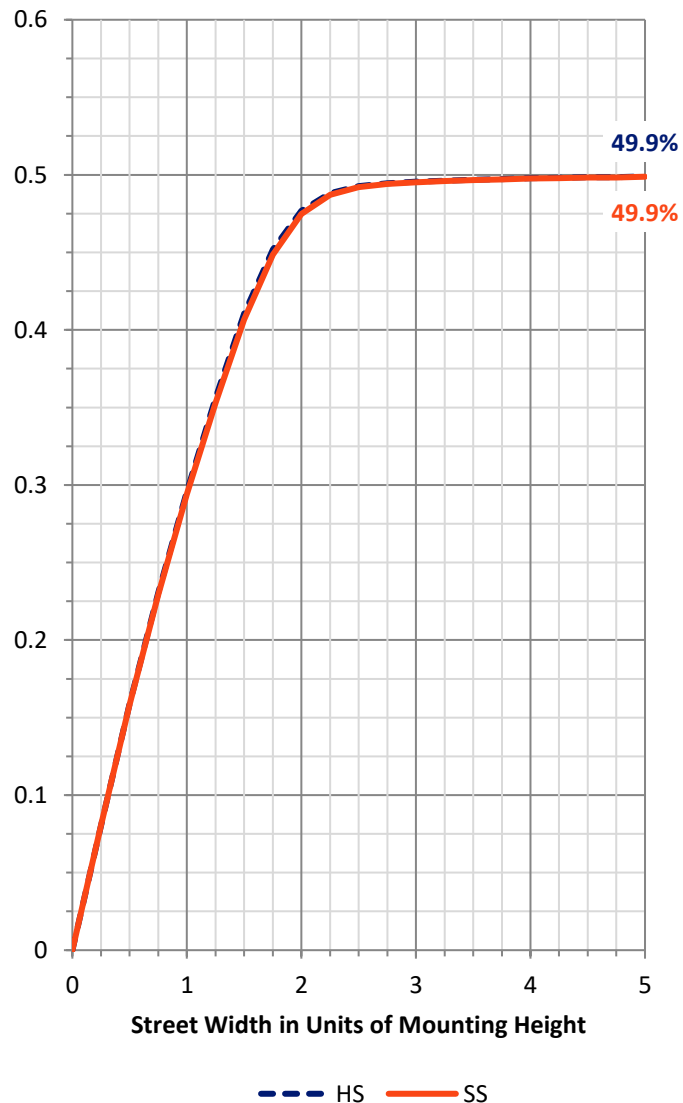
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14517.0	0.0	14517.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14489.4	0.0	14489.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	29006.4	0.0	29006.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.2
10°-20°	1075.5	3.7
20°-30°	2021.3	7.0
30°-40°	3333.4	11.5
40°-50°	5213.2	18.0
50°-60°	8423.3	29.0
60°-70°	7584.6	26.1
70°-80°	898.4	3.1
80°-90°	123.0	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°	29006.4	100.0
0°-180°	29006.4	100.0

Coefficient of Utilization



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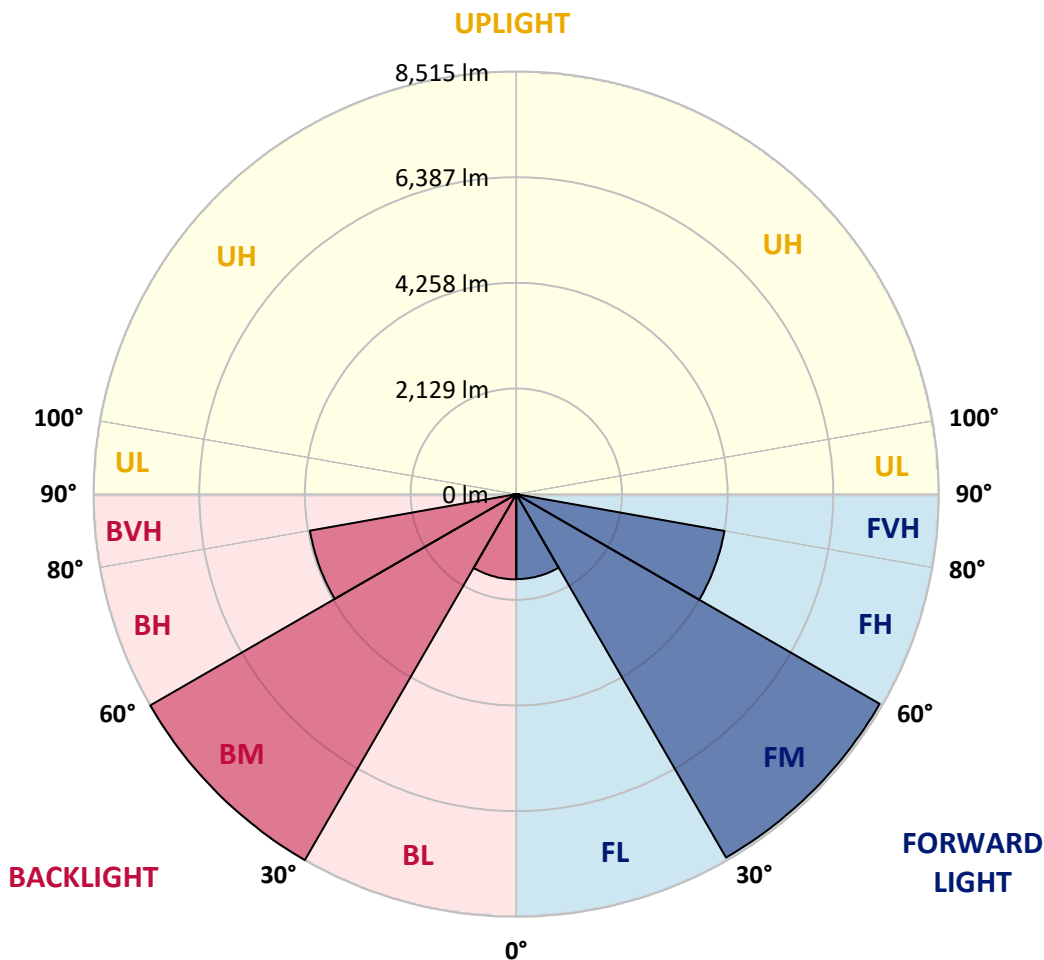
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.9	5.9			
FM (30°-60°)	8454.5	29.1			
FH (60°-80°)	4259.9	14.7			G2/5000
FVH (80°-90°)	63.1	0.2			G1/100
BL (0°-30°)	1718.5	5.9	B3/2500		
BM (30°-60°)	8515.5	29.4	B5		
BH (60°-80°)	4223.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	59.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1
2.5°	3356.1	3362.8	3422.7	3399.4	3419.3	3382.7	3409.4	3465.9	3399.4	3449.3	3465.9
5°	3392.7	3402.7	3402.7	3426.0	3439.3	3432.6	3449.3	3426.0	3489.2	3462.6	3502.5
7.5°	3525.8	3509.1	3482.5	3502.5	3505.8	3522.4	3539.1	3569.0	3559.0	3535.8	3575.7
10°	3549.1	3535.8	3575.7	3579.0	3562.4	3549.1	3565.7	3565.7	3595.6	3602.3	3602.3
12.5°	3589.0	3602.3	3598.9	3625.6	3628.9	3618.9	3645.5	3695.4	3682.1	3692.1	3668.8
15°	3742.0	3725.3	3722.0	3748.6	3791.9	3728.7	3775.2	3771.9	3758.6	3778.6	3725.3
17.5°	3875.0	3821.8	3845.1	3888.3	3871.7	3885.0	3944.9	3891.7	3905.0	3881.7	3865.0
20°	3991.4	3948.2	3951.5	3968.2	3968.2	4008.1	4031.4	4011.4	3998.1	3994.8	4001.4
22.5°	4121.2	4071.3	4074.6	4144.4	4167.7	4154.4	4137.8	4171.1	4177.7	4151.1	4181.0
25°	4217.6	4270.8	4287.5	4320.7	4270.8	4307.4	4294.1	4357.3	4397.2	4344.0	4380.6
27.5°	4470.4	4447.1	4490.4	4487.0	4527.0	4490.4	4513.7	4533.6	4550.2	4553.6	4536.9
30°	4696.6	4706.6	4663.3	4779.7	4686.6	4746.5	4786.4	4796.4	4816.3	4816.3	4766.4
32.5°	4936.1	4916.1	4986.0	4959.4	4942.7	4989.3	4946.1	5082.4	5002.6	5049.2	4992.6
35°	5205.5	5205.5	5232.1	5305.3	5205.5	5175.6	5255.4	5311.9	5311.9	5228.8	5248.7
37.5°	5508.2	5481.6	5514.8	5608.0	5531.5	5431.7	5578.0	5601.3	5584.7	5561.4	5521.5
40°	5721.1	5714.4	5780.9	5904.0	5794.2	5774.3	5800.9	5864.1	5884.0	5907.3	5854.1
42.5°	6080.3	6110.2	6303.1	6273.2	6183.4	6113.6	6106.9	6343.1	6286.5	6226.6	6196.7
45°	6612.5	6585.9	6685.7	6689.0	6572.6	6419.6	6452.8	6669.0	6765.5	6632.4	6682.3
47.5°	7034.9	7048.2	7118.1	7261.1	6991.7	6832.0	6955.1	7304.3	7274.4	7224.5	7271.1
50°	7600.4	7660.2	7879.8	7829.9	7590.4	7394.1	7663.6	7992.9	8029.4	7846.5	7813.2
52.5°	8382.0	8475.2	8594.9	8634.8	8405.3	8335.5	8352.1	8761.2	8671.4	8495.1	8382.0
55°	9067.2	9110.5	9330.0	9659.3	9642.7	9306.7	9499.6	9652.6	9286.8	8924.2	8954.1
57.5°	9359.9	9379.9	9991.9	10650.5	11043.0	11119.5	10900.0	10384.4	9512.9	8814.4	8771.2
60°	8631.5	8821.1	9559.5	11046.3	12839.1	13723.9	12263.7	10467.6	8984.1	8135.9	8072.7
62.5°	6898.5	6908.5	8006.2	10261.3	13956.7	16275.1	12785.9	9685.9	7573.8	6612.5	6359.7
64°	4912.8	5005.9	6266.6	9083.9	13723.9	17312.9	12722.7	8664.8	6243.3	4879.5	4703.2
65°	3525.8	3655.5	4872.9	7886.4	13178.4	17189.8	12533.1	7786.6	5049.2	3725.3	3545.7
67.5°	1297.2	1350.4	1912.6	3944.9	9463.0	14648.6	9932.0	4280.8	2218.6	1579.9	1420.3
70°	602.0	605.4	708.5	1303.9	4137.8	9795.7	4739.8	1606.6	834.9	661.9	615.3
72.5°	442.4	452.4	495.6	602.0	1217.4	4147.8	1556.7	658.6	489.0	432.4	422.4
75°	359.2	365.9	379.2	435.7	562.1	1111.0	632.0	455.7	389.2	349.3	335.9
77.5°	276.1	276.1	306.0	332.6	372.5	518.9	419.1	362.6	316.0	276.1	266.1
80°	199.6	202.9	239.5	259.4	252.8	342.6	302.7	299.4	259.4	216.2	199.6
82.5°	116.4	126.4	173.0	186.3	179.6	202.9	219.5	232.8	202.9	149.7	136.4
85°	66.5	69.9	99.8	103.1	103.1	96.5	126.4	139.7	136.4	93.1	83.2
87.5°	20.0	20.0	26.6	26.6	29.9	33.3	49.9	59.9	66.5	46.6	43.2
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°	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1	3396.1
2.5°	3449.3	3399.4	3402.7	3416.0	3372.8	3389.4	3439.3	3402.7	3392.7	3372.8	3362.8
5°	3432.6	3485.9	3465.9	3472.6	3462.6	3416.0	3409.4	3439.3	3455.9	3426.0	3485.9
7.5°	3549.1	3525.8	3499.2	3509.1	3485.9	3525.8	3552.4	3492.5	3522.4	3505.8	3472.6
10°	3615.6	3572.3	3592.3	3585.6	3569.0	3608.9	3582.3	3575.7	3549.1	3512.5	3565.7
12.5°	3638.9	3688.8	3722.0	3665.5	3675.5	3655.5	3638.9	3638.9	3608.9	3598.9	3608.9
15°	3742.0	3785.2	3771.9	3815.2	3758.6	3778.6	3798.5	3748.6	3775.2	3702.1	3758.6
17.5°	3931.6	3895.0	3941.5	3885.0	3905.0	3944.9	3881.7	3881.7	3901.6	3861.7	3811.8
20°	4051.3	4034.7	4018.1	4021.4	3988.1	4024.7	4004.7	3994.8	3964.8	3978.1	4004.7
22.5°	4164.4	4141.1	4147.8	4157.8	4181.0	4164.4	4154.4	4164.4	4091.2	4157.8	4064.6
25°	4304.1	4367.3	4347.3	4390.6	4324.1	4367.3	4364.0	4300.8	4340.7	4314.1	4294.1
27.5°	4536.9	4503.7	4533.6	4480.4	4527.0	4530.3	4490.4	4596.8	4550.2	4543.6	4530.3
30°	4836.3	4813.0	4793.1	4763.1	4799.7	4769.8	4803.0	4813.0	4769.8	4736.5	4673.3
32.5°	5005.9	5069.1	5092.4	5019.2	5022.6	5039.2	5009.3	4979.3	5005.9	5015.9	5005.9
35°	5245.4	5305.3	5318.6	5262.0	5232.1	5315.3	5255.4	5355.2	5268.7	5272.0	5182.2
37.5°	5524.8	5541.4	5654.5	5591.3	5564.7	5524.8	5634.6	5621.3	5641.2	5481.6	5561.4
40°	5840.8	5900.7	5963.9	5804.2	5800.9	5837.5	5830.8	5907.3	5870.7	5847.5	5790.9
42.5°	6186.7	6313.1	6323.1	6216.7	6150.1	6143.5	6176.8	6346.4	6349.7	6196.7	6130.2
45°	6645.7	6785.4	6748.9	6542.6	6469.5	6459.5	6622.5	6695.6	6758.8	6699.0	6642.4
47.5°	7217.9	7311.0	7284.4	7094.8	6858.6	6925.1	7084.8	7314.3	7247.8	7168.0	7101.4
50°	7829.9	7939.6	7883.1	7693.5	7467.3	7467.3	7663.6	7956.3	7936.3	7780.0	7720.1
52.5°	8508.4	8668.1	8797.8	8528.4	8338.8	8368.7	8678.1	8784.5	8734.6	8624.8	8574.9
55°	9014.0	9320.0	9586.1	9599.4	9609.4	9606.1	9685.9	9792.3	9436.4	9260.1	9080.5
57.5°	8890.9	9469.7	10381.1	10999.7	11182.7	11279.1	11252.5	10760.3	9918.7	9340.0	9399.8
60°	8012.8	8957.5	10427.6	12413.4	13743.9	13610.8	13125.2	11179.4	9652.6	8674.7	8551.7
62.5°	6393.0	7530.5	9646.0	12812.5	16478.0	16438.1	13896.9	10211.4	8042.8	6805.4	6728.9
64°	4816.3	6013.8	8604.9	12709.4	17435.9	17475.9	13700.6	9020.7	6293.2	4816.3	4699.9
65°	3685.4	4796.4	7583.7	12496.5	17229.7	17253.0	13155.1	7790.0	4783.1	3419.3	3292.9
67.5°	1466.9	2042.3	4114.5	9476.3	14794.9	14731.7	9386.5	3768.6	1829.4	1190.8	1167.5
70°	625.3	778.3	1443.6	4490.4	9905.4	9722.5	4041.3	1224.0	678.5	568.8	565.5
72.5°	429.1	475.6	618.7	1387.0	4117.8	4021.4	1150.9	568.8	462.3	425.8	425.8
75°	345.9	379.2	449.0	582.1	1091.0	1051.1	542.2	419.1	369.2	342.6	339.3
77.5°	269.4	302.7	352.6	402.5	498.9	495.6	362.6	316.0	286.1	266.1	259.4
80°	212.9	246.1	279.4	286.1	326.0	319.3	246.1	249.5	232.8	192.9	189.6
82.5°	146.4	199.6	222.9	202.9	192.9	192.9	176.3	176.3	163.0	119.7	109.8
85°	89.8	133.0	139.7	119.7	89.8	89.8	96.5	93.1	86.5	63.2	59.9
87.5°	46.6	63.2	56.5	46.6	29.9	29.9	26.6	20.0	20.0	16.6	16.6
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)