

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: P478881

Luminaire Tested: **IFLD-M-SA4D-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478881
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

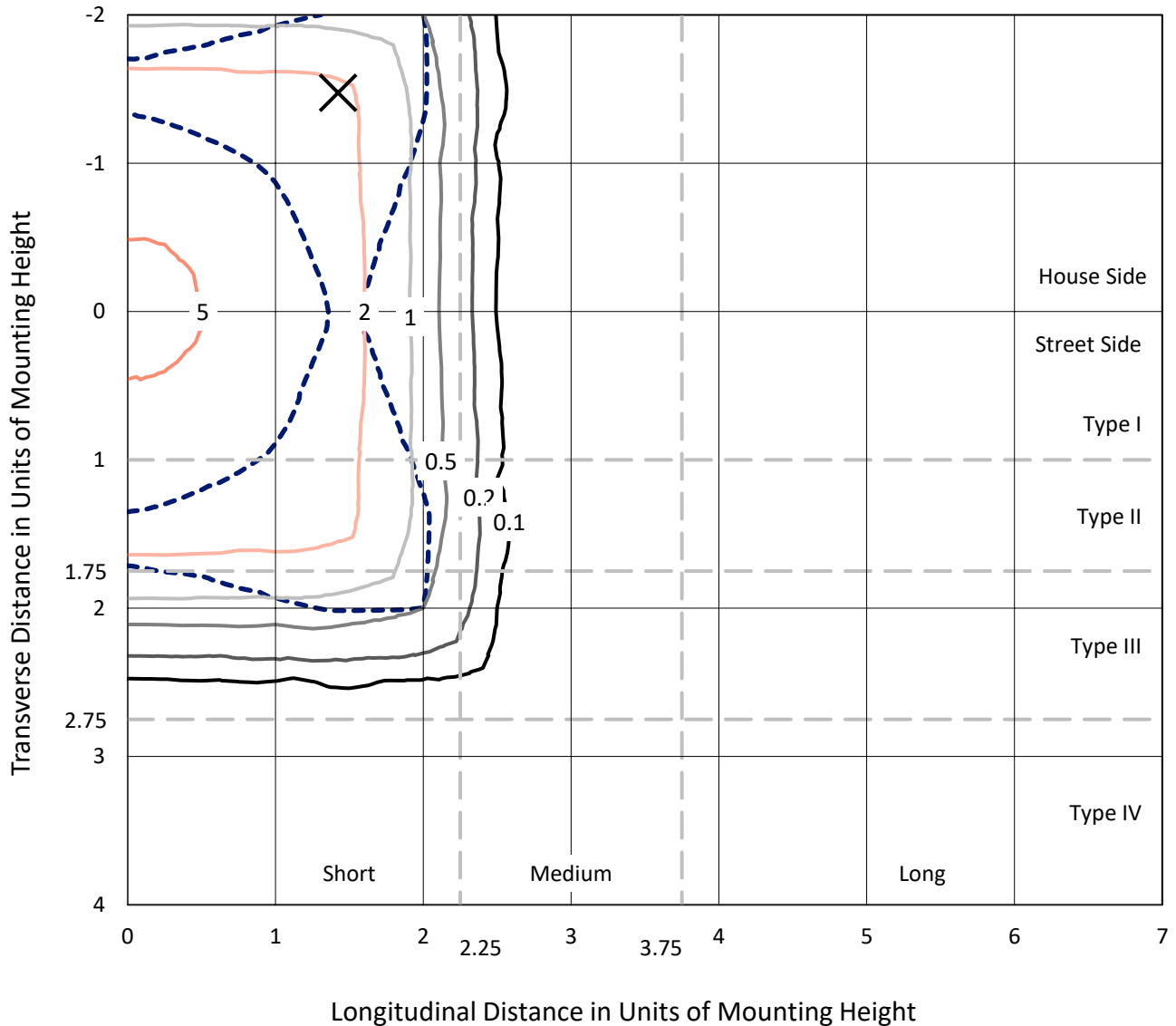
Lumens per Lamp: N/A
Luminaire Lumens: 28412.3 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

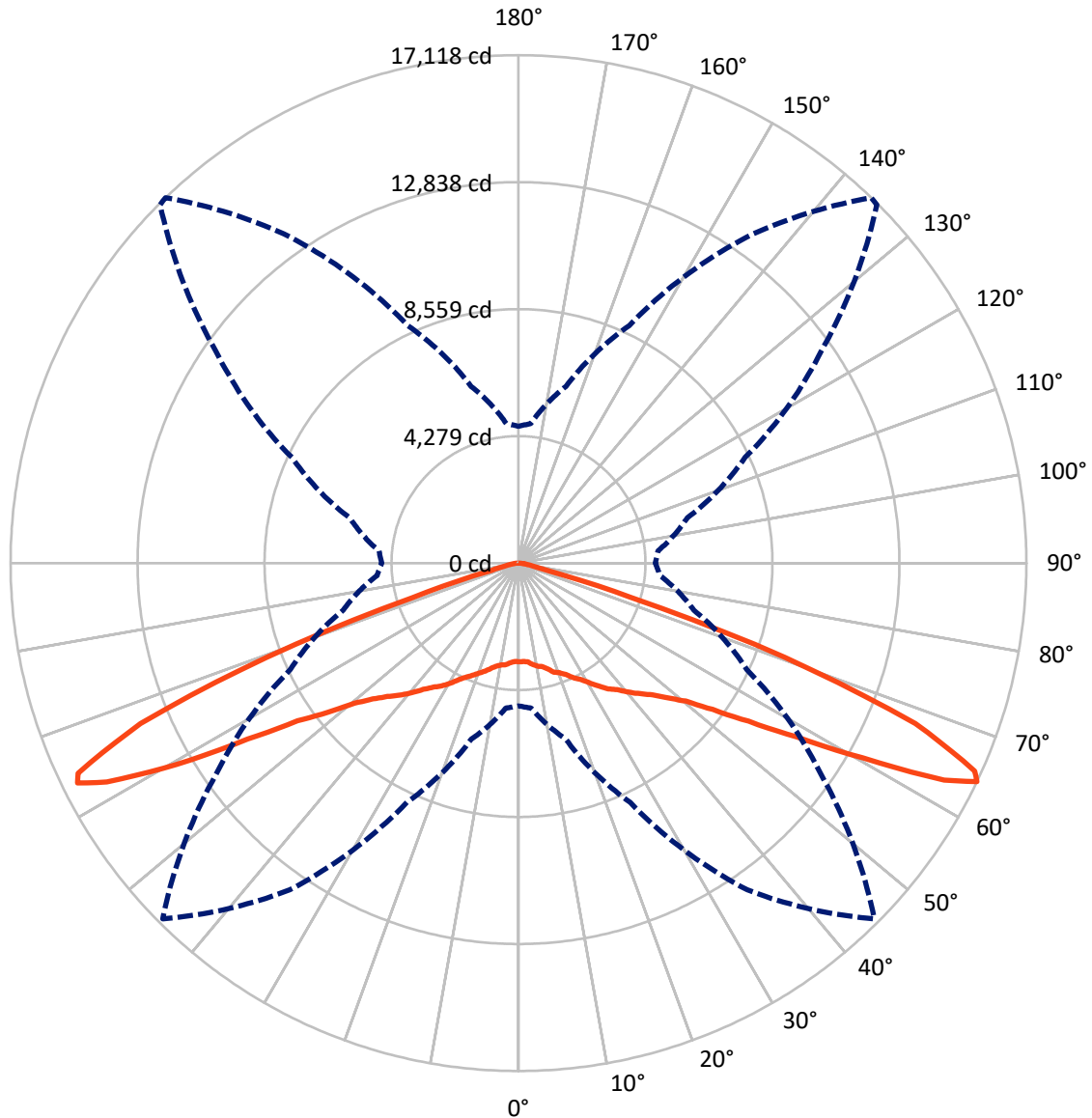
✕ Max cd
 - - - 1/2 Max cd



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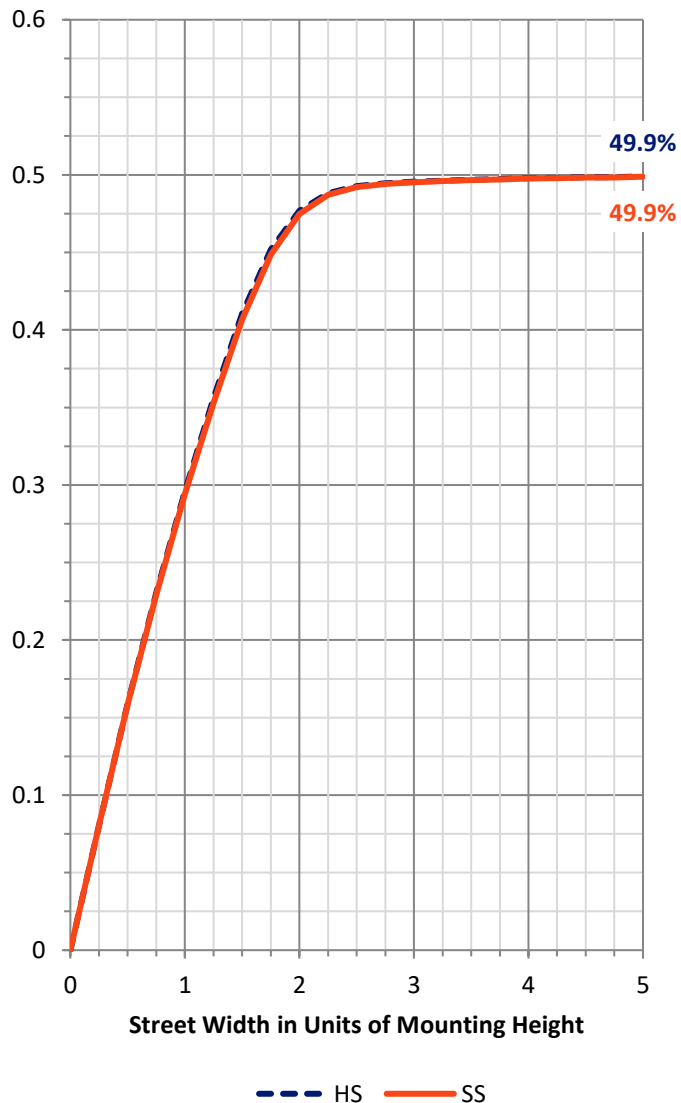
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14219.7	0.0	14219.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14192.6	0.0	14192.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	28412.3	0.0	28412.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.9	1.2
10°-20°	1053.5	3.7
20°-30°	1979.9	7.0
30°-40°	3265.1	11.5
40°-50°	5106.4	18.0
50°-60°	8250.8	29.0
60°-70°	7429.3	26.1
70°-80°	880.0	3.1
80°-90°	120.5	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°	28412.3	100.0
0°-180°	28412.3	100.0

Coefficient of Utilization



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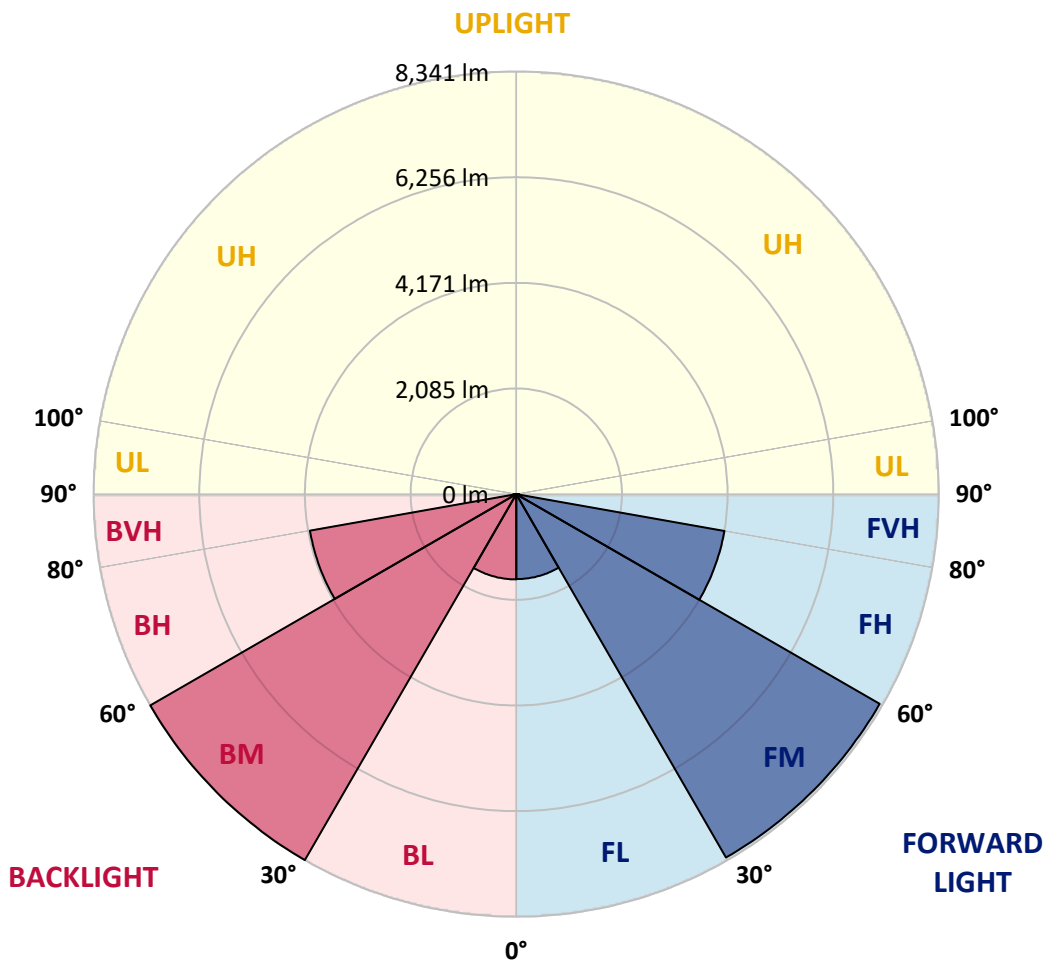
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1676.8	5.9			
FM (30°-60°)	8281.3	29.1			
FH (60°-80°)	4172.7	14.7			G2/5000
FVH (80°-90°)	61.8	0.2			G1/100
BL (0°-30°)	1683.3	5.9	B3/2500		
BM (30°-60°)	8341.1	29.4	B4/8500		
BH (60°-80°)	4136.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	58.7	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°	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5
2.5°	3287.4	3293.9	3352.6	3329.8	3349.3	3313.5	3339.5	3394.9	3329.8	3378.6	3394.9
5°	3323.2	3333.0	3333.0	3355.8	3368.9	3362.3	3378.6	3355.8	3417.7	3391.7	3430.8
7.5°	3453.6	3437.3	3411.2	3430.8	3434.0	3450.3	3466.6	3495.9	3486.1	3463.3	3502.4
10°	3476.4	3463.3	3502.4	3505.7	3489.4	3476.4	3492.7	3492.7	3522.0	3528.5	3528.5
12.5°	3515.5	3528.5	3525.2	3551.3	3554.6	3544.8	3570.9	3619.7	3606.7	3616.5	3593.7
15°	3665.3	3649.0	3645.8	3671.9	3714.2	3652.3	3697.9	3694.7	3681.6	3701.2	3649.0
17.5°	3795.7	3743.5	3766.3	3808.7	3792.4	3805.4	3864.1	3812.0	3825.0	3802.2	3785.9
20°	3909.7	3867.3	3870.6	3886.9	3886.9	3926.0	3948.8	3929.2	3916.2	3913.0	3919.5
22.5°	4036.8	3987.9	3991.1	4059.6	4082.4	4069.3	4053.1	4085.6	4092.1	4066.1	4095.4
25°	4131.2	4183.4	4199.7	4232.2	4183.4	4219.2	4206.2	4268.1	4307.2	4255.1	4290.9
27.5°	4378.9	4356.1	4398.4	4395.1	4434.2	4398.4	4421.2	4440.8	4457.1	4460.3	4444.0
30°	4600.4	4610.2	4567.8	4681.9	4590.6	4649.3	4688.4	4698.1	4717.7	4717.7	4668.8
32.5°	4835.0	4815.4	4883.9	4857.8	4841.5	4887.1	4844.8	4978.3	4900.2	4945.8	4890.4
35°	5098.9	5098.9	5125.0	5196.6	5098.9	5069.6	5147.8	5203.2	5203.2	5121.7	5141.2
37.5°	5395.4	5369.3	5401.9	5493.1	5418.2	5320.4	5463.8	5486.6	5470.3	5447.5	5408.4
40°	5603.9	5597.4	5662.5	5783.1	5675.6	5656.0	5682.1	5744.0	5763.5	5786.3	5734.2
42.5°	5955.8	5985.1	6174.1	6144.7	6056.8	5988.3	5981.8	6213.2	6157.8	6099.1	6069.8
45°	6477.1	6451.0	6548.7	6552.0	6438.0	6288.1	6320.7	6532.4	6626.9	6496.6	6545.5
47.5°	6890.8	6903.9	6972.3	7112.4	6848.5	6692.1	6812.6	7154.7	7125.4	7076.5	7122.2
50°	7444.7	7503.4	7718.4	7669.5	7434.9	7242.7	7506.6	7829.2	7865.0	7685.8	7653.2
52.5°	8210.4	8301.6	8418.9	8458.0	8233.2	8164.7	8181.0	8581.8	8493.8	8321.1	8210.4
55°	8881.5	8923.9	9138.9	9461.5	9445.2	9116.1	9305.1	9454.9	9096.6	8741.4	8770.7
57.5°	9168.2	9187.8	9787.3	10432.4	10816.8	10891.8	10676.7	10171.7	9318.1	8633.9	8591.6
60°	8454.7	8640.4	9363.7	10820.1	12576.2	13442.8	12012.5	10253.2	8800.1	7969.3	7907.4
62.5°	6757.3	6767.0	7842.2	10051.2	13670.9	15941.8	12524.1	9487.5	7418.6	6477.1	6229.4
64°	4812.2	4903.4	6138.2	8897.8	13442.8	16958.3	12462.2	8487.3	6115.4	4779.6	4606.9
65°	3453.6	3580.6	4773.1	7724.9	12908.5	16837.8	12276.4	7627.2	4945.8	3649.0	3473.1
67.5°	1270.7	1322.8	1873.4	3864.1	9269.2	14348.6	9728.6	4193.1	2173.1	1547.6	1391.2
70°	589.7	593.0	694.0	1277.2	4053.1	9595.0	4642.8	1573.7	817.8	648.4	602.7
72.5°	433.3	443.1	485.5	589.7	1192.5	4062.8	1524.8	645.1	478.9	423.6	413.8
75°	351.9	358.4	371.4	426.8	550.6	1088.2	619.0	446.4	381.2	342.1	329.1
77.5°	270.4	270.4	299.7	325.8	364.9	508.3	410.5	355.1	309.5	270.4	260.6
80°	195.5	198.7	234.6	254.1	247.6	335.6	296.5	293.2	254.1	211.8	195.5
82.5°	114.0	123.8	169.4	182.5	175.9	198.7	215.0	228.1	198.7	146.6	133.6
85°	65.2	68.4	97.7	101.0	101.0	94.5	123.8	136.8	133.6	91.2	81.5
87.5°	19.5	19.5	26.1	26.1	29.3	32.6	48.9	58.6	65.2	45.6	42.4
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°	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5	3326.5
2.5°	3378.6	3329.8	3333.0	3346.0	3303.7	3320.0	3368.9	3333.0	3323.2	3303.7	3293.9
5°	3362.3	3414.5	3394.9	3401.4	3391.7	3346.0	3339.5	3368.9	3385.1	3355.8	3414.5
7.5°	3476.4	3453.6	3427.5	3437.3	3414.5	3453.6	3479.6	3421.0	3450.3	3434.0	3401.4
10°	3541.5	3499.2	3518.7	3512.2	3495.9	3535.0	3509.0	3502.4	3476.4	3440.5	3492.7
12.5°	3564.3	3613.2	3645.8	3590.4	3600.2	3580.6	3564.3	3564.3	3535.0	3525.2	3535.0
15°	3665.3	3707.7	3694.7	3737.0	3681.6	3701.2	3720.7	3671.9	3697.9	3626.2	3681.6
17.5°	3851.0	3815.2	3860.8	3805.4	3825.0	3864.1	3802.2	3802.2	3821.7	3782.6	3733.8
20°	3968.3	3952.0	3935.8	3939.0	3906.4	3942.3	3922.7	3913.0	3883.6	3896.7	3922.7
22.5°	4079.1	4056.3	4062.8	4072.6	4095.4	4079.1	4069.3	4079.1	4007.4	4072.6	3981.4
25°	4216.0	4277.9	4258.3	4300.7	4235.5	4277.9	4274.6	4212.7	4251.8	4225.7	4206.2
27.5°	4444.0	4411.4	4440.8	4388.6	4434.2	4437.5	4398.4	4502.7	4457.1	4450.5	4437.5
30°	4737.2	4714.4	4694.9	4665.6	4701.4	4672.1	4704.7	4714.4	4672.1	4639.5	4577.6
32.5°	4903.4	4965.3	4988.1	4916.4	4919.7	4936.0	4906.7	4877.3	4903.4	4913.2	4903.4
35°	5138.0	5196.6	5209.7	5154.3	5125.0	5206.4	5147.8	5245.5	5160.8	5164.1	5076.1
37.5°	5411.7	5428.0	5538.7	5476.8	5450.8	5411.7	5519.2	5506.2	5525.7	5369.3	5447.5
40°	5721.2	5779.8	5841.7	5685.3	5682.1	5717.9	5711.4	5786.3	5750.5	5727.7	5672.3
42.5°	6060.0	6183.8	6193.6	6089.3	6024.2	6017.7	6050.3	6216.4	6219.7	6069.8	6004.6
45°	6509.6	6646.5	6610.6	6408.6	6337.0	6327.2	6486.8	6558.5	6620.4	6561.8	6506.4
47.5°	7070.0	7161.3	7135.2	6949.5	6718.2	6783.3	6939.7	7164.5	7099.4	7021.2	6956.0
50°	7669.5	7777.0	7721.6	7535.9	7314.4	7314.4	7506.6	7793.3	7773.8	7620.6	7562.0
52.5°	8334.2	8490.6	8617.6	8353.7	8168.0	8197.3	8500.3	8604.6	8555.7	8448.2	8399.3
55°	8829.4	9129.1	9389.8	9402.8	9412.6	9409.3	9487.5	9591.8	9243.2	9070.5	8894.6
57.5°	8708.8	9275.8	10168.5	10774.5	10953.7	11048.1	11022.1	10539.9	9715.6	9148.7	9207.3
60°	7848.7	8774.0	10214.1	12159.2	13462.4	13332.1	12856.4	10950.4	9454.9	8497.1	8376.5
62.5°	6262.0	7376.3	9448.4	12550.1	16140.5	16101.4	13612.3	10002.3	7878.0	6666.0	6591.1
64°	4717.7	5890.6	8428.7	12449.1	17078.8	17117.9	13420.0	8835.9	6164.3	4717.7	4603.7
65°	3610.0	4698.1	7428.4	12240.6	16876.8	16899.7	12885.7	7630.4	4685.1	3349.3	3225.5
67.5°	1436.8	2000.5	4030.2	9282.3	14491.9	14430.0	9194.3	3691.4	1791.9	1166.4	1143.6
70°	612.5	762.4	1414.0	4398.4	9702.6	9523.4	3958.6	1199.0	664.6	557.1	553.9
72.5°	420.3	465.9	606.0	1358.6	4033.5	3939.0	1127.3	557.1	452.9	417.0	417.0
75°	338.8	371.4	439.8	570.2	1068.6	1029.6	531.1	410.5	361.6	335.6	332.3
77.5°	263.9	296.5	345.4	394.2	488.7	485.5	355.1	309.5	280.2	260.6	254.1
80°	208.5	241.1	273.7	280.2	319.3	312.8	241.1	244.4	228.1	189.0	185.7
82.5°	143.4	195.5	218.3	198.7	189.0	189.0	172.7	172.7	159.6	117.3	107.5
85°	88.0	130.3	136.8	117.3	88.0	88.0	94.5	91.2	84.7	61.9	58.6
87.5°	45.6	61.9	55.4	45.6	29.3	29.3	26.1	19.5	19.5	16.3	16.3
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)