

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: P478919

Luminaire Tested: **IFLD-M-SA4C-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478919
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

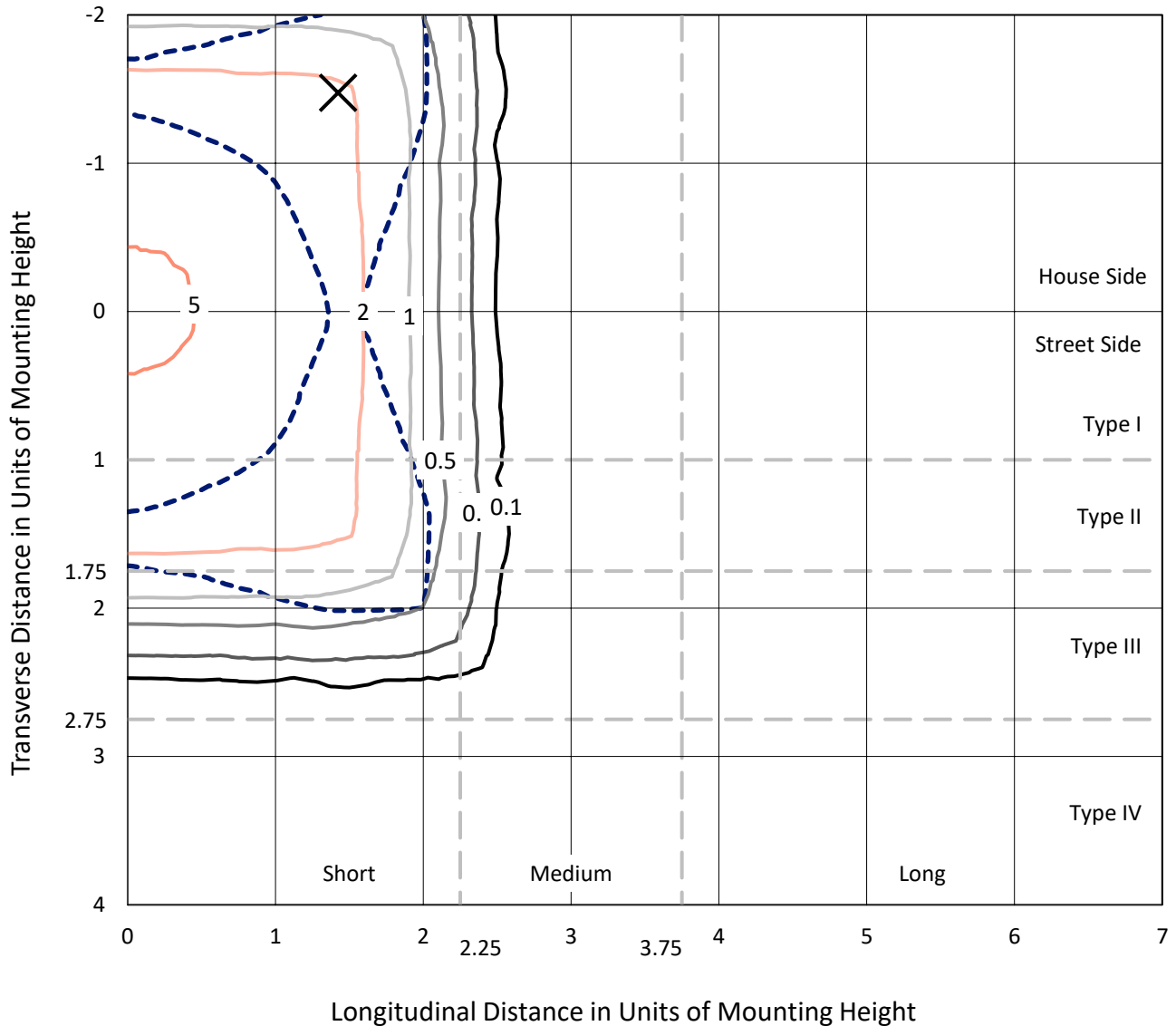
Lumens per Lamp: N/A
Luminaire Lumens: 27968.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

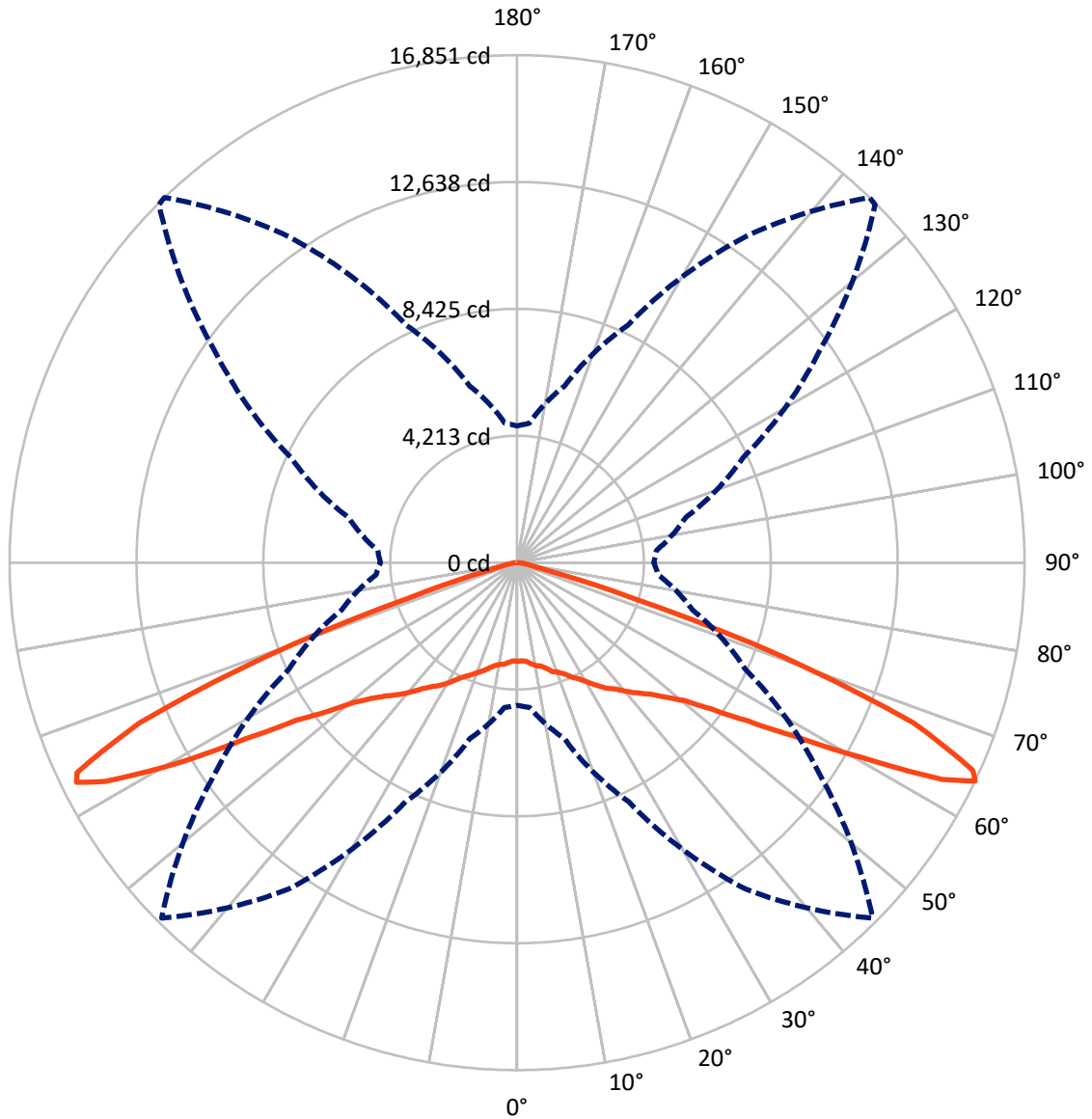
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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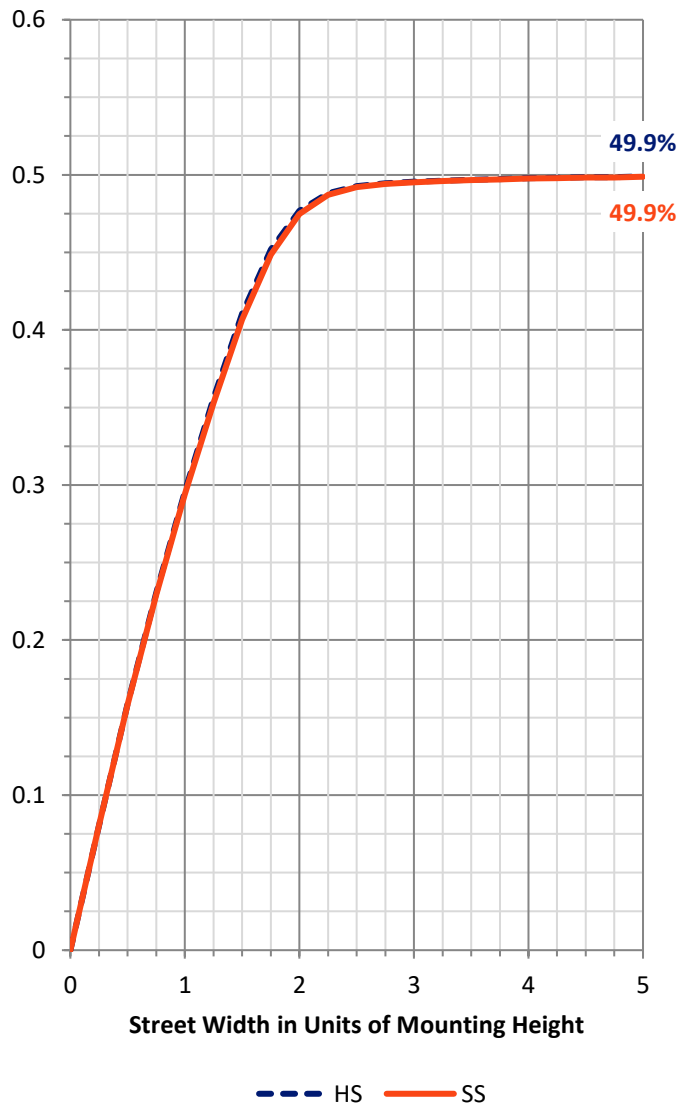
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13997.6	0.0	13997.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13970.9	0.0	13970.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	27968.5	0.0	27968.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	1.2
10°-20°	1037.0	3.7
20°-30°	1948.9	7.0
30°-40°	3214.1	11.5
40°-50°	5026.7	18.0
50°-60°	8121.9	29.0
60°-70°	7313.2	26.1
70°-80°	866.3	3.1
80°-90°	118.6	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°	27968.5	100.0
0°-180°	27968.5	100.0

Coefficient of Utilization



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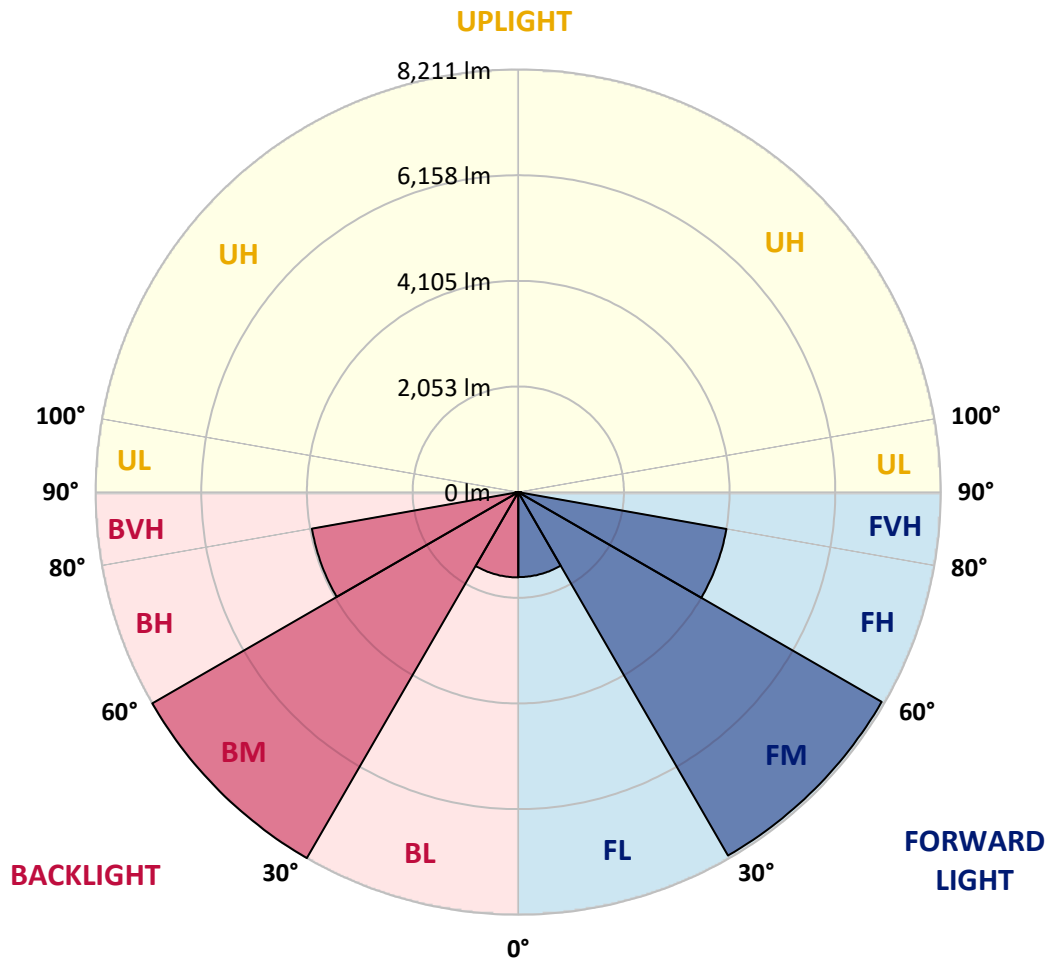
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1650.7	5.9			
FM (30°-60°)	8152.0	29.1			
FH (60°-80°)	4107.5	14.7			G2/5000
FVH (80°-90°)	60.8	0.2			G1/100
BL (0°-30°)	1657.0	5.9	B3/2500		
BM (30°-60°)	8210.8	29.4	B4/8500		
BH (60°-80°)	4072.0	14.6	B4/5000		G2/5000
BVH (80°-90°)	57.7	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°	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5
2.5°	3236.1	3242.5	3300.2	3277.7	3297.0	3261.7	3287.4	3341.9	3277.7	3325.9	3341.9
5°	3271.3	3281.0	3281.0	3303.4	3316.2	3309.8	3325.9	3303.4	3364.3	3338.7	3377.2
7.5°	3399.6	3383.6	3357.9	3377.2	3380.4	3396.4	3412.4	3441.3	3431.7	3409.2	3447.7
10°	3422.1	3409.2	3447.7	3450.9	3434.9	3422.1	3438.1	3438.1	3467.0	3473.4	3473.4
12.5°	3460.6	3473.4	3470.2	3495.8	3499.0	3489.4	3515.1	3563.2	3550.4	3560.0	3537.5
15°	3608.1	3592.0	3588.8	3614.5	3656.2	3595.3	3640.2	3636.9	3624.1	3643.4	3592.0
17.5°	3736.4	3685.1	3707.5	3749.2	3733.2	3746.0	3803.7	3752.4	3765.2	3742.8	3726.8
20°	3848.6	3806.9	3810.1	3826.2	3826.2	3864.7	3887.1	3867.9	3855.0	3851.8	3858.2
22.5°	3973.7	3925.6	3928.8	3996.2	4018.6	4005.8	3989.7	4021.8	4028.2	4002.6	4031.4
25°	4066.7	4118.0	4134.1	4166.1	4118.0	4153.3	4140.5	4201.4	4239.9	4188.6	4223.9
27.5°	4310.5	4288.0	4329.7	4326.5	4365.0	4329.7	4352.2	4371.4	4387.4	4390.6	4374.6
30°	4528.5	4538.2	4496.5	4608.7	4518.9	4576.7	4615.1	4624.8	4644.0	4644.0	4595.9
32.5°	4759.5	4740.2	4807.6	4781.9	4765.9	4810.8	4769.1	4900.6	4823.6	4868.5	4814.0
35°	5019.2	5019.2	5044.9	5115.5	5019.2	4990.4	5067.4	5121.9	5121.9	5041.7	5060.9
37.5°	5311.1	5285.4	5317.5	5407.3	5333.6	5237.3	5378.5	5400.9	5384.9	5362.4	5323.9
40°	5516.4	5509.9	5574.1	5692.8	5586.9	5567.7	5593.3	5654.3	5673.5	5696.0	5644.6
42.5°	5862.7	5891.6	6077.6	6048.8	5962.2	5894.8	5888.4	6116.1	6061.6	6003.9	5975.0
45°	6375.9	6350.2	6446.4	6449.7	6337.4	6189.9	6221.9	6430.4	6523.4	6395.1	6443.2
47.5°	6783.2	6796.0	6863.4	7001.3	6741.5	6587.6	6706.2	7043.0	7014.1	6966.0	7010.9
50°	7328.4	7386.2	7597.8	7549.7	7318.8	7129.6	7389.4	7706.9	7742.1	7565.8	7533.7
52.5°	8082.1	8171.9	8287.4	8325.9	8104.6	8037.2	8053.2	8447.7	8361.1	8191.2	8082.1
55°	8742.8	8784.5	8996.2	9313.7	9297.6	8973.7	9159.7	9307.3	8954.5	8604.9	8633.7
57.5°	9025.0	9044.3	9634.4	10269.4	10647.9	10721.6	10510.0	10012.8	9172.6	8499.0	8457.4
60°	8322.6	8505.5	9217.5	10651.1	12379.7	13232.9	11824.9	10093.0	8662.6	7844.8	7783.8
62.5°	6651.7	6661.3	7719.7	9894.2	13457.4	15692.8	12328.4	9339.3	7302.8	6375.9	6132.1
64°	4737.0	4826.8	6042.3	8758.8	13232.9	16693.4	12267.5	8354.7	6019.9	4704.9	4535.0
65°	3399.6	3524.7	4698.5	7604.2	12706.9	16574.7	12084.7	7508.0	4868.5	3592.0	3418.9
67.5°	1250.8	1302.1	1844.1	3803.7	9124.4	14124.5	9576.7	4127.6	2139.2	1523.4	1369.5
70°	580.5	583.7	683.1	1257.2	3989.7	9445.2	4570.2	1549.1	805.0	638.2	593.3
72.5°	426.6	436.2	477.9	580.5	1173.8	3999.4	1501.0	635.0	471.5	416.9	407.3
75°	346.4	352.8	365.6	420.1	542.0	1071.2	609.4	439.4	375.2	336.8	323.9
77.5°	266.2	266.2	295.1	320.7	359.2	500.3	404.1	349.6	304.7	266.2	256.6
80°	192.4	195.6	230.9	250.2	243.7	330.3	291.9	288.6	250.2	208.5	192.4
82.5°	112.3	121.9	166.8	179.6	173.2	195.6	211.7	224.5	195.6	144.3	131.5
85°	64.1	67.4	96.2	99.4	99.4	93.0	121.9	134.7	131.5	89.8	80.2
87.5°	19.2	19.2	25.7	25.7	28.9	32.1	48.1	57.7	64.1	44.9	41.7
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°	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5	3274.5
2.5°	3325.9	3277.7	3281.0	3293.8	3252.1	3268.1	3316.2	3281.0	3271.3	3252.1	3242.5
5°	3309.8	3361.1	3341.9	3348.3	3338.7	3293.8	3287.4	3316.2	3332.3	3303.4	3361.1
7.5°	3422.1	3399.6	3374.0	3383.6	3361.1	3399.6	3425.3	3367.5	3396.4	3380.4	3348.3
10°	3486.2	3444.5	3463.8	3457.3	3441.3	3479.8	3454.1	3447.7	3422.1	3386.8	3438.1
12.5°	3508.7	3556.8	3588.8	3534.3	3543.9	3524.7	3508.7	3508.7	3479.8	3470.2	3479.8
15°	3608.1	3649.8	3636.9	3678.6	3624.1	3643.4	3662.6	3614.5	3640.2	3569.6	3624.1
17.5°	3790.9	3755.6	3800.5	3746.0	3765.2	3803.7	3742.8	3742.8	3762.0	3723.5	3675.4
20°	3906.4	3890.3	3874.3	3877.5	3845.4	3880.7	3861.5	3851.8	3823.0	3835.8	3861.5
22.5°	4015.4	3992.9	3999.4	4009.0	4031.4	4015.4	4005.8	4015.4	3944.8	4009.0	3919.2
25°	4150.1	4211.0	4191.8	4233.5	4169.3	4211.0	4207.8	4146.9	4185.4	4159.7	4140.5
27.5°	4374.6	4342.5	4371.4	4320.1	4365.0	4368.2	4329.7	4432.3	4387.4	4381.0	4368.2
30°	4663.2	4640.8	4621.6	4592.7	4628.0	4599.1	4631.2	4640.8	4599.1	4567.0	4506.1
32.5°	4826.8	4887.8	4910.2	4839.6	4842.9	4858.9	4830.0	4801.2	4826.8	4836.4	4826.8
35°	5057.7	5115.5	5128.3	5073.8	5044.9	5125.1	5067.4	5163.6	5080.2	5083.4	4996.8
37.5°	5327.1	5343.2	5452.2	5391.3	5365.6	5327.1	5433.0	5420.1	5439.4	5285.4	5362.4
40°	5631.8	5689.5	5750.5	5596.5	5593.3	5628.6	5622.2	5696.0	5660.7	5638.2	5583.7
42.5°	5965.4	6087.2	6096.9	5994.2	5930.1	5923.7	5955.7	6119.3	6122.5	5975.0	5910.8
45°	6408.0	6542.7	6507.4	6308.5	6238.0	6228.4	6385.5	6456.1	6517.0	6459.3	6404.8
47.5°	6959.6	7049.4	7023.7	6840.9	6613.2	6677.4	6831.3	7052.6	6988.5	6911.5	6847.3
50°	7549.7	7655.6	7601.0	7418.2	7200.1	7200.1	7389.4	7671.6	7652.3	7501.6	7443.9
52.5°	8204.0	8357.9	8483.0	8223.2	8040.4	8069.3	8367.6	8470.2	8422.1	8316.2	8268.1
55°	8691.5	8986.5	9243.1	9255.9	9265.6	9262.4	9339.3	9442.0	9098.8	8928.8	8755.6
57.5°	8572.8	9130.9	10009.6	10606.2	10782.6	10875.6	10849.9	10375.2	9563.8	9005.8	9063.5
60°	7726.1	8637.0	10054.5	11969.2	13252.1	13123.8	12655.6	10779.4	9307.3	8364.3	8245.7
62.5°	6164.2	7261.1	9300.8	12354.1	15888.4	15849.9	13399.6	9846.1	7755.0	6561.9	6488.1
64°	4644.0	5798.6	8297.0	12254.7	16812.1	16850.6	13210.4	8697.9	6068.0	4644.0	4531.8
65°	3553.6	4624.8	7312.4	12049.4	16613.2	16635.7	12684.4	7511.2	4611.9	3297.0	3175.1
67.5°	1414.4	1969.2	3967.3	9137.3	14265.6	14204.6	9050.7	3633.7	1764.0	1148.2	1125.7
70°	603.0	750.5	1391.9	4329.7	9551.0	9374.6	3896.7	1180.2	654.3	548.4	545.2
72.5°	413.7	458.6	596.5	1337.4	3970.5	3877.5	1109.7	548.4	445.8	410.5	410.5
75°	333.5	365.6	433.0	561.3	1052.0	1013.5	522.8	404.1	356.0	330.3	327.1
77.5°	259.8	291.9	340.0	388.1	481.1	477.9	349.6	304.7	275.8	256.6	250.2
80°	205.3	237.3	269.4	275.8	314.3	307.9	237.3	240.5	224.5	186.0	182.8
82.5°	141.1	192.4	214.9	195.6	186.0	186.0	170.0	170.0	157.2	115.5	105.8
85°	86.6	128.3	134.7	115.5	86.6	86.6	93.0	89.8	83.4	60.9	57.7
87.5°	44.9	60.9	54.5	44.9	28.9	28.9	25.7	19.2	19.2	16.0	16.0
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)