

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: P479349

Luminaire Tested: **IFLD-M-SA4D-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479349
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

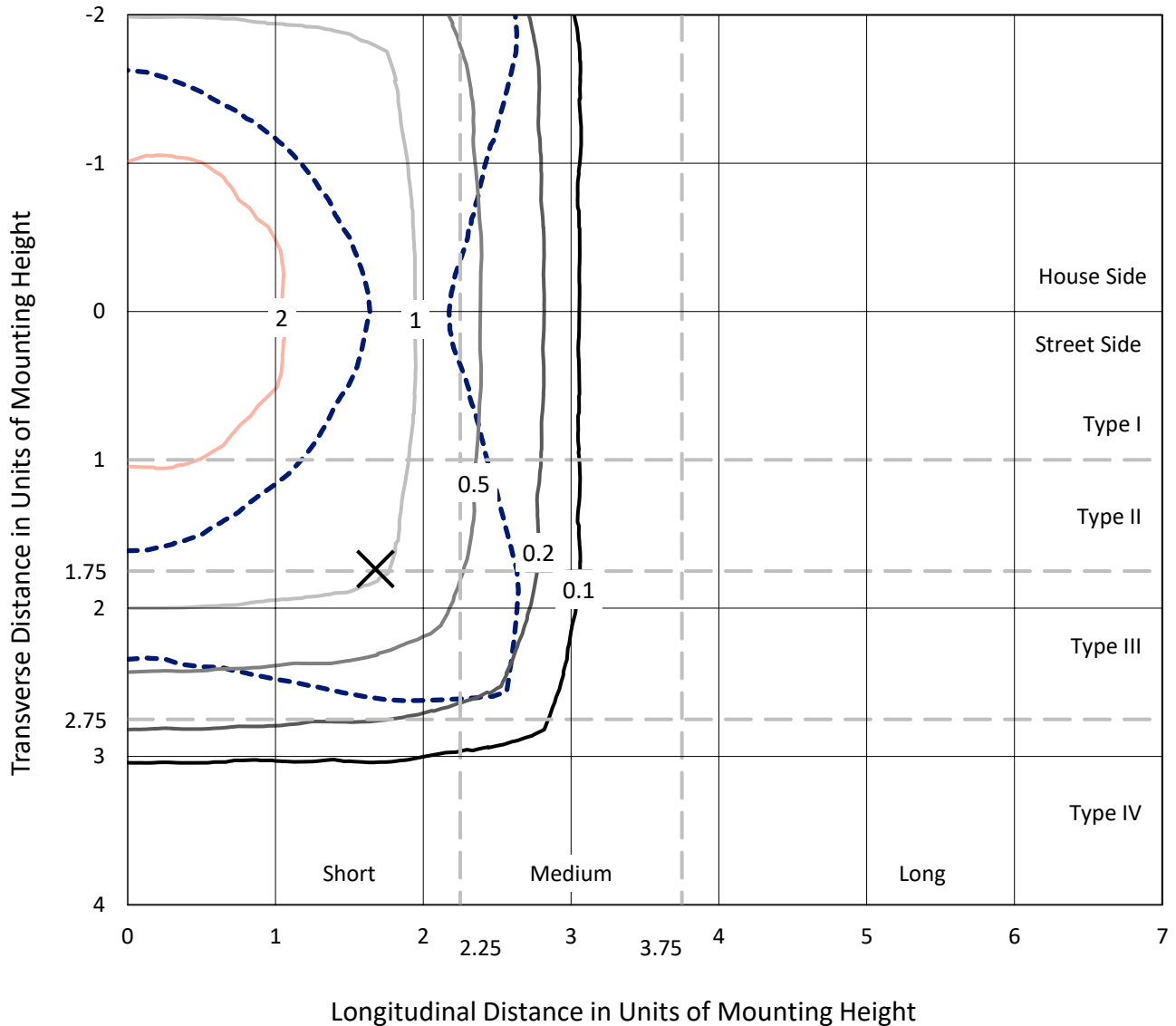
Lumens per Lamp: N/A
Luminaire Lumens: 31578.3 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

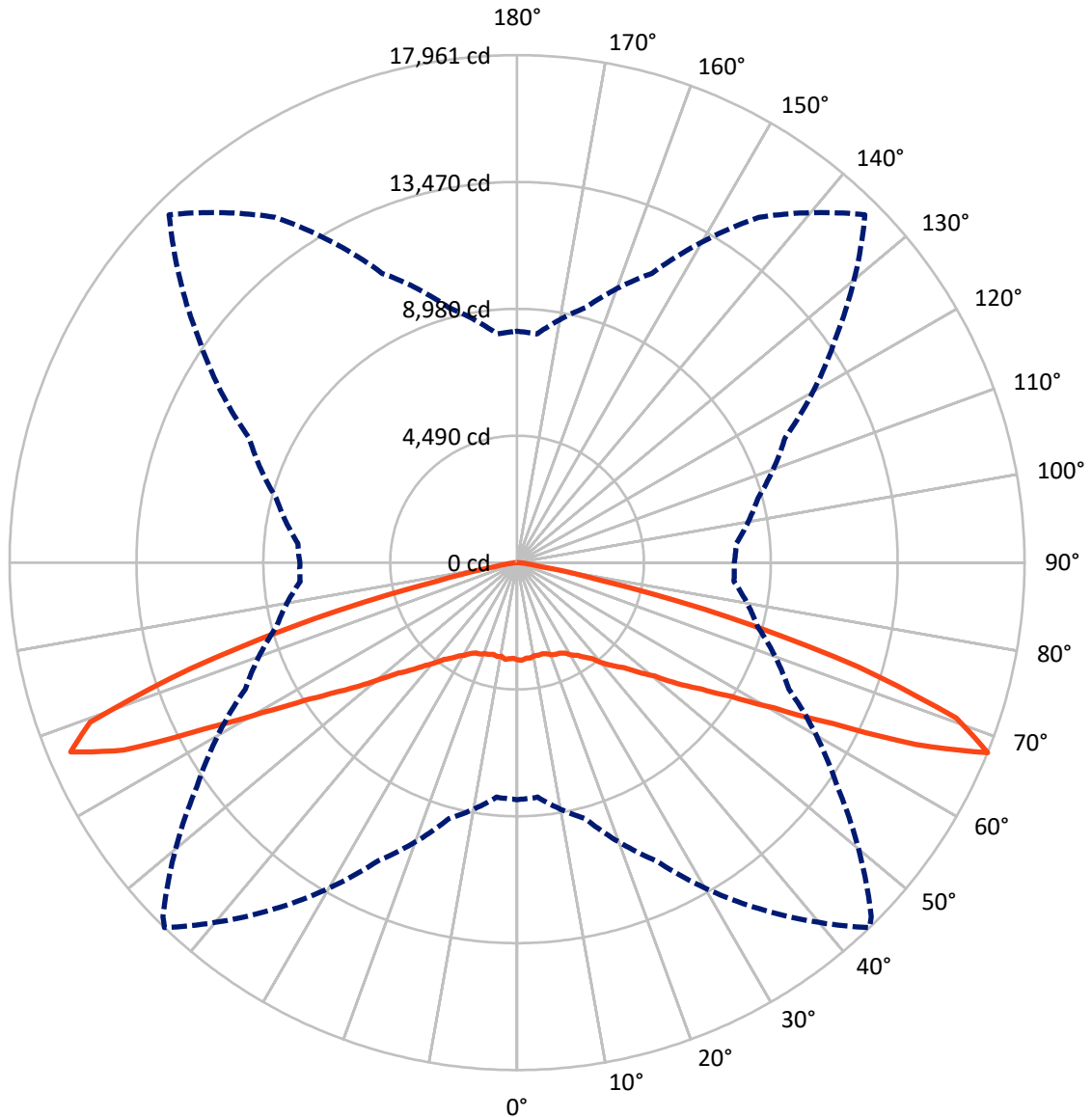
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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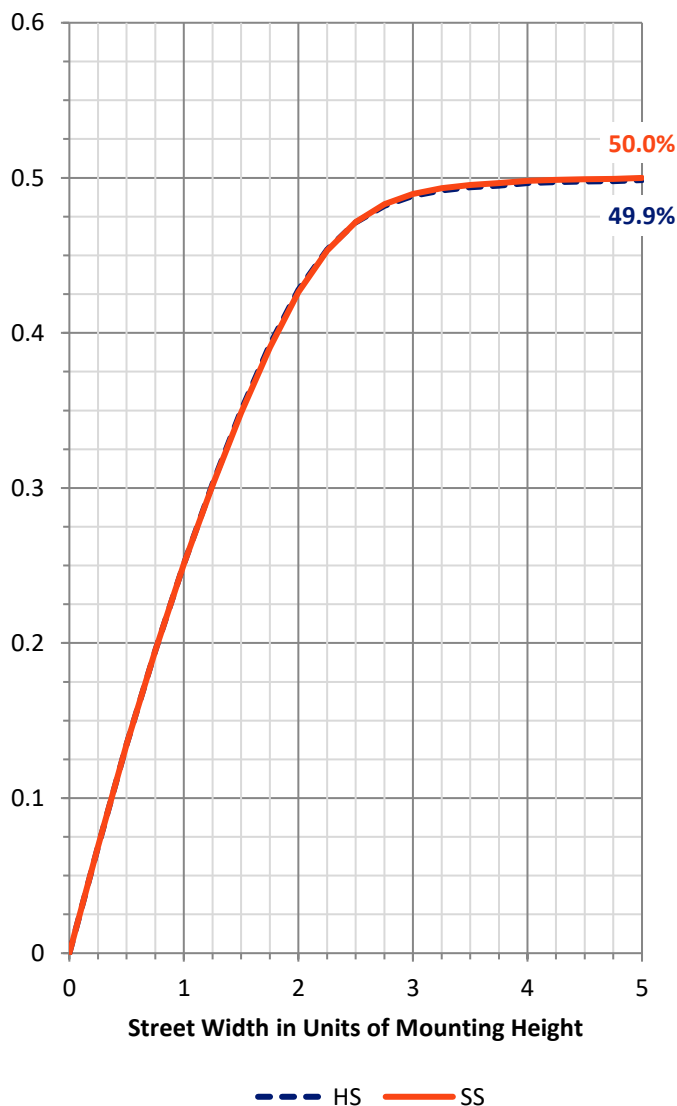
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15748.7	0.0	15748.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	15829.6	0.0	15829.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	31578.3	0.0	31578.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.0
10°-20°	953.6	3.0
20°-30°	1621.7	5.1
30°-40°	2571.2	8.1
40°-50°	4192.6	13.3
50°-60°	7160.4	22.7
60°-70°	10890.9	34.5
70°-80°	3670.9	11.6
80°-90°	190.6	0.6
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°	31578.3	100.0
0°-180°	31578.3	100.0

Coefficient of Utilization



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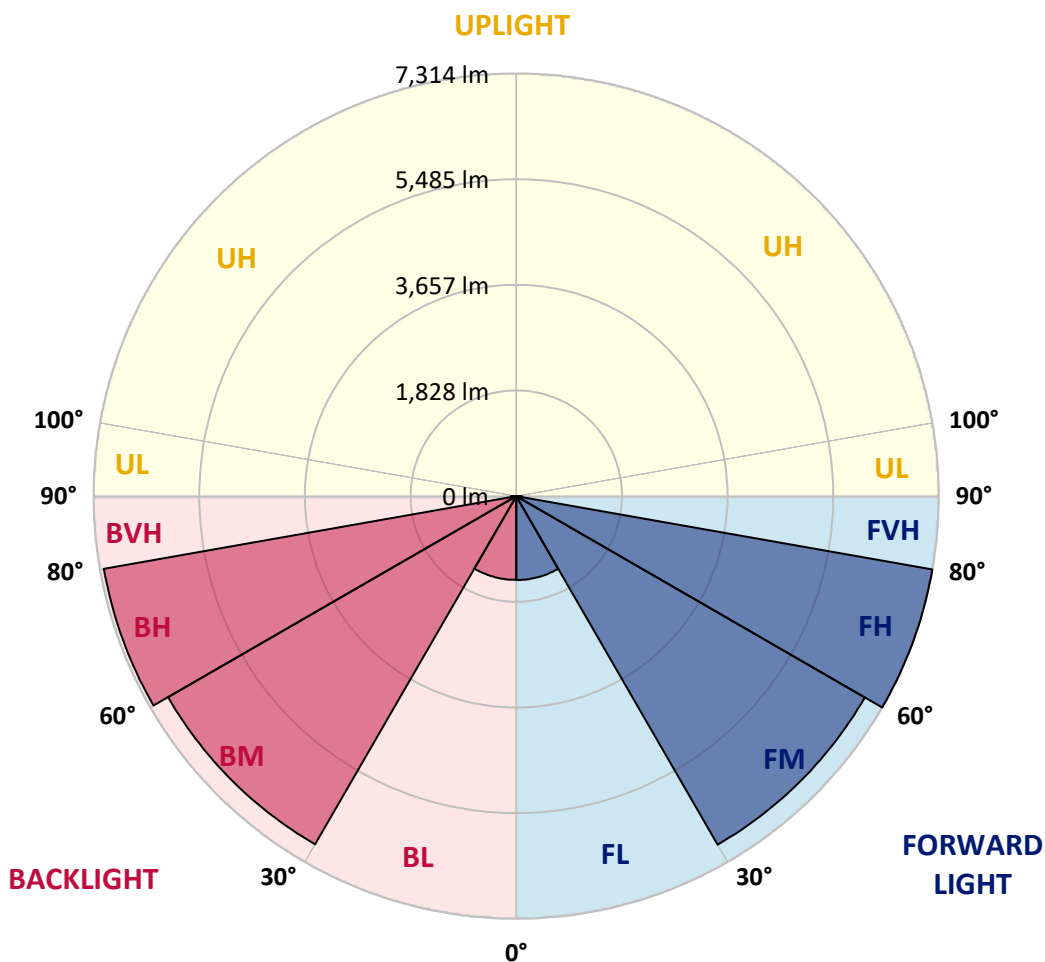
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.3	4.6			
FM (30°-60°)	6965.9	22.1			
FH (60°-80°)	7313.9	23.2			G3/7500
FVH (80°-90°)	97.5	0.3			G1/100
BL (0°-30°)	1449.4	4.6	B3/2500		
BM (30°-60°)	6958.3	22.0	B4/8500		
BH (60°-80°)	7247.9	23.0	B5		G3/7500
BVH (80°-90°)	93.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4
2.5°	3370.1	3409.7	3438.6	3435.0	3445.8	3456.6	3442.2	3463.8	3449.4	3474.6	3489.0
5°	3435.0	3424.2	3427.8	3406.1	3456.6	3398.9	3398.9	3427.8	3463.8	3420.5	3445.8
7.5°	3395.3	3388.1	3370.1	3402.5	3413.3	3413.3	3442.2	3388.1	3449.4	3463.8	3467.4
10°	3352.1	3312.4	3366.5	3398.9	3406.1	3348.5	3373.7	3388.1	3370.1	3388.1	3398.9
12.5°	3316.0	3337.6	3337.6	3337.6	3326.8	3366.5	3391.7	3388.1	3352.1	3384.5	3326.8
15°	3312.4	3301.6	3334.0	3362.9	3344.9	3352.1	3362.9	3395.3	3326.8	3341.3	3341.3
17.5°	3308.8	3323.2	3334.0	3330.4	3391.7	3391.7	3380.9	3359.3	3413.3	3384.5	3344.9
20°	3323.2	3312.4	3341.3	3352.1	3395.3	3481.8	3449.4	3431.4	3402.5	3366.5	3366.5
22.5°	3341.3	3334.0	3373.7	3420.5	3503.4	3525.1	3521.5	3499.8	3449.4	3406.1	3398.9
25°	3406.1	3341.3	3384.5	3474.6	3503.4	3546.7	3575.5	3546.7	3478.2	3489.0	3424.2
27.5°	3503.4	3492.6	3550.3	3611.6	3586.3	3626.0	3600.8	3622.4	3626.0	3571.9	3507.1
30°	3618.8	3586.3	3622.4	3741.3	3752.1	3795.4	3752.1	3694.5	3712.5	3665.6	3633.2
32.5°	3784.6	3773.8	3842.3	3921.6	3936.0	3914.3	3892.7	3925.2	3849.5	3813.4	3755.8
35°	3892.7	3939.6	4022.5	4083.8	4130.6	4109.0	4119.8	4087.4	4105.4	4029.7	4004.5
37.5°	4213.5	4195.5	4213.5	4318.0	4328.8	4318.0	4328.8	4364.9	4339.7	4274.8	4209.9
40°	4516.3	4487.4	4530.7	4649.6	4642.4	4678.5	4606.4	4646.0	4646.0	4523.5	4498.3
42.5°	4743.4	4840.7	4891.1	4988.4	5024.5	4992.1	4977.6	4984.8	5064.1	4920.0	4865.9
45°	5211.9	5208.3	5359.7	5413.8	5312.8	5305.6	5276.8	5363.3	5417.4	5334.5	5312.8
47.5°	5720.1	5745.4	5831.9	5853.5	5914.8	5803.0	5803.0	5813.8	6004.9	5810.2	5709.3
50°	6177.9	6210.3	6383.3	6552.7	6437.4	6318.5	6365.3	6423.0	6527.5	6343.7	6257.2
52.5°	6733.0	6909.6	7024.9	7115.0	7197.9	7115.0	7006.9	7071.8	7277.2	7032.1	6924.0
55°	7533.1	7673.7	7781.8	7947.6	8016.1	7904.4	7893.6	7886.4	8001.7	7742.2	7594.4
57.5°	8427.0	8369.3	8542.4	8798.3	9047.0	8938.8	8906.4	8913.6	8942.4	8574.8	8463.1
60°	9537.2	9602.0	9807.5	10031.0	10294.1	10445.5	10232.8	10110.3	10135.5	9634.5	9461.5
62.5°	10171.5	10315.7	10780.7	11548.4	12078.2	12550.4	12582.9	11786.3	11252.8	10279.7	9544.4
65°	9865.2	9843.5	10719.4	12139.5	14147.1	15520.4	15315.0	13383.0	11519.6	9973.3	8985.7
67.5°	8391.0	8333.3	9393.0	11645.7	14961.7	17960.6	17726.3	13833.6	10618.5	8823.5	7706.1
70°	5406.6	5392.1	6541.9	8877.6	13357.8	16490.0	16576.5	12564.8	8643.3	6462.6	5356.1
72.5°	1964.4	2083.3	2750.1	4772.2	9072.2	12615.3	12669.4	9302.9	4970.4	2988.0	2202.3
75°	724.5	746.1	868.7	1549.9	4134.2	7745.8	7947.6	4512.7	1766.1	973.2	793.0
77.5°	418.1	421.7	465.0	576.7	1225.5	3024.1	3146.6	1369.7	684.8	519.0	479.4
80°	284.7	281.1	328.0	374.9	490.2	857.8	911.9	573.1	432.5	360.4	302.8
82.5°	165.8	176.6	241.5	266.7	299.2	378.5	385.7	356.8	324.4	266.7	198.2
85°	100.9	82.9	133.4	147.8	173.0	169.4	169.4	194.6	209.1	187.4	111.7
87.5°	25.2	25.2	32.4	36.0	46.9	36.0	39.6	75.7	100.9	93.7	57.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4
2.5°	3456.6	3445.8	3453.0	3492.6	3467.4	3391.7	3409.7	3449.4	3416.9	3398.9	3395.3
5°	3442.2	3463.8	3438.6	3445.8	3471.0	3409.7	3420.5	3471.0	3449.4	3456.6	3416.9
7.5°	3445.8	3456.6	3435.0	3402.5	3402.5	3453.0	3424.2	3431.4	3398.9	3453.0	3380.9
10°	3424.2	3395.3	3370.1	3388.1	3380.9	3366.5	3355.7	3377.3	3344.9	3391.7	3341.3
12.5°	3359.3	3366.5	3359.3	3352.1	3366.5	3402.5	3344.9	3352.1	3301.6	3308.8	3334.0
15°	3334.0	3355.7	3348.5	3388.1	3406.1	3352.1	3395.3	3352.1	3312.4	3290.8	3330.4
17.5°	3344.9	3377.3	3366.5	3395.3	3362.9	3402.5	3409.7	3391.7	3344.9	3326.8	3344.9
20°	3355.7	3344.9	3359.3	3409.7	3456.6	3416.9	3416.9	3406.1	3362.9	3337.6	3337.6
22.5°	3380.9	3362.9	3384.5	3424.2	3438.6	3499.8	3445.8	3420.5	3348.5	3283.6	3344.9
25°	3431.4	3442.2	3456.6	3442.2	3521.5	3514.3	3507.1	3489.0	3377.3	3380.9	3370.1
27.5°	3528.7	3467.4	3485.4	3571.9	3582.7	3611.6	3575.5	3608.0	3489.0	3492.6	3420.5
30°	3647.6	3582.7	3640.4	3716.1	3712.5	3766.6	3748.5	3755.8	3672.9	3626.0	3528.7
32.5°	3777.4	3770.2	3806.2	3853.1	3871.1	3899.9	3896.3	3896.3	3845.9	3723.3	3741.3
35°	3921.6	3972.0	4015.3	4065.7	4072.9	4109.0	4058.5	4065.7	4015.3	3925.2	3954.0
37.5°	4206.3	4202.7	4249.6	4310.8	4318.0	4289.2	4328.8	4310.8	4242.3	4181.1	4134.2
40°	4537.9	4465.8	4509.1	4653.2	4664.1	4613.6	4610.0	4606.4	4555.9	4422.6	4393.7
42.5°	4826.3	4920.0	4912.8	4959.6	4927.2	4901.9	4992.1	4941.6	4901.9	4761.4	4736.1
45°	5197.5	5226.3	5320.0	5471.4	5316.4	5316.4	5377.7	5338.1	5316.4	5211.9	5114.6
47.5°	5658.9	5684.1	5871.5	5882.3	5781.4	5712.9	5904.0	5911.2	5821.1	5741.8	5622.8
50°	6199.5	6210.3	6379.7	6552.7	6441.0	6311.3	6505.9	6581.6	6379.7	6271.6	6123.8
52.5°	6794.2	6761.8	6902.4	7226.8	7118.6	7079.0	7288.0	7306.1	7032.1	6862.7	6902.4
55°	7479.1	7435.8	7817.9	8037.7	7969.3	7897.2	7990.9	8034.1	7814.3	7536.7	7634.1
57.5°	8365.7	8387.4	8578.4	8794.7	8906.4	8924.4	8967.7	8924.4	8700.9	8419.8	8329.7
60°	9252.4	9317.3	9688.5	10095.8	10131.9	10449.1	10391.4	10175.1	9858.0	9457.9	9475.9
62.5°	9580.4	9526.3	10124.7	11119.5	11966.5	12546.8	12290.9	11523.2	10787.9	10059.8	10113.9
65°	8920.8	9054.2	9868.8	11425.9	13264.1	15560.1	14197.6	12074.6	10589.6	9648.9	9544.4
67.5°	7688.1	7789.0	8823.5	10467.1	13729.0	17412.7	14918.5	11296.1	9338.9	8120.6	8185.5
70°	5356.1	5406.6	6419.4	8574.8	12449.5	16432.3	13458.7	8675.7	6448.2	5139.8	5211.9
72.5°	2155.4	2278.0	2944.8	5165.1	9191.1	12485.5	9061.4	4552.3	2674.4	1989.6	1805.8
75°	796.6	800.2	940.7	1777.0	4364.9	7846.7	4087.4	1463.4	854.2	699.2	666.8
77.5°	461.4	457.8	490.2	641.6	1265.1	3063.7	1160.6	573.1	465.0	418.1	400.1
80°	288.3	284.7	335.2	425.3	555.1	839.8	490.2	356.8	313.6	270.3	270.3
82.5°	183.8	187.4	263.1	313.6	338.8	371.3	284.7	252.3	234.3	155.0	151.4
85°	118.9	108.1	183.8	209.1	187.4	165.8	158.6	133.4	122.5	75.7	82.9
87.5°	54.1	57.7	93.7	104.5	68.5	39.6	39.6	28.8	28.8	18.0	18.0
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)