

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: McGRAW-EDISON

Report Number: P192537

Luminaire Tested: **GLEON-AF-09-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-5MQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35622.9 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 290
Input Voltage (V): NR
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: 25 FT

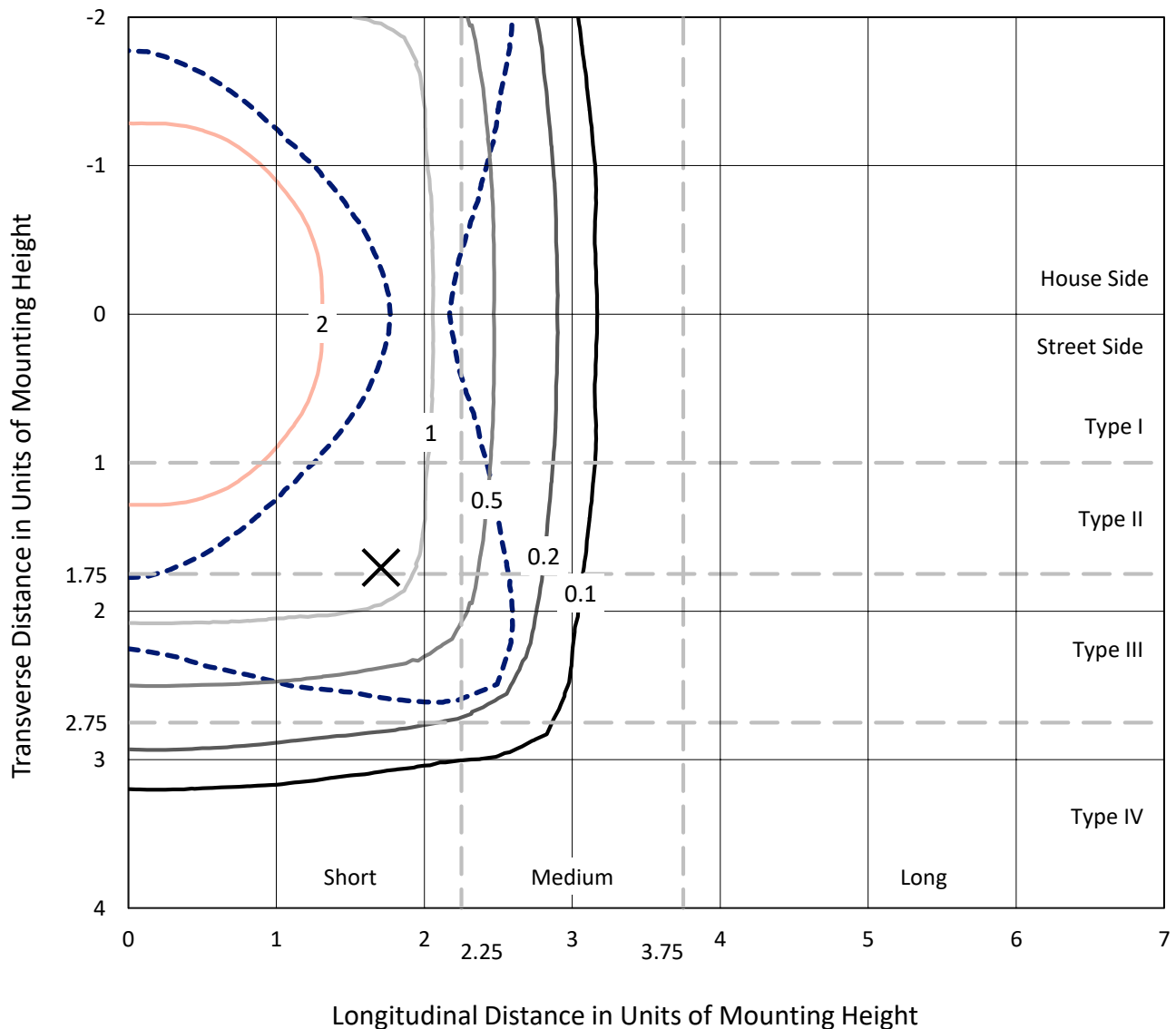


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

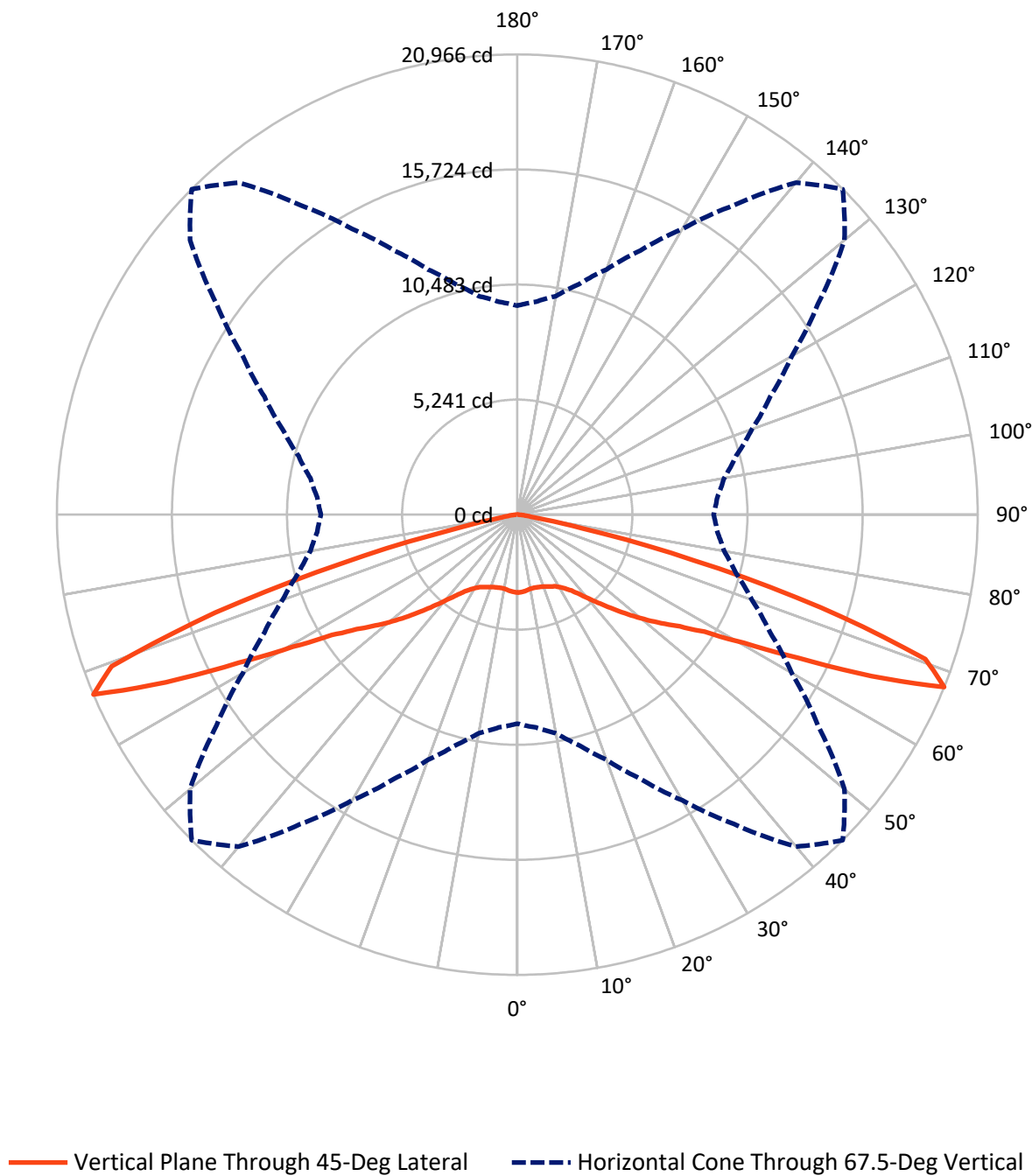


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17811.4	0.0	17811.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17811.4	0.0	17811.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	35622.9	0.0	35622.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	0.9
10°-20°	964.2	2.7
20°-30°	1639.1	4.6
30°-40°	2679.3	7.5
40°-50°	4783.1	13.4
50°-60°	8064.4	22.6
60°-70°	12514.8	35.1
70°-80°	4397.2	12.3
80°-90°	248.5	0.7
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°	35622.9	100.0
0°-180°	35622.9	100.0

Coefficient of Utilization



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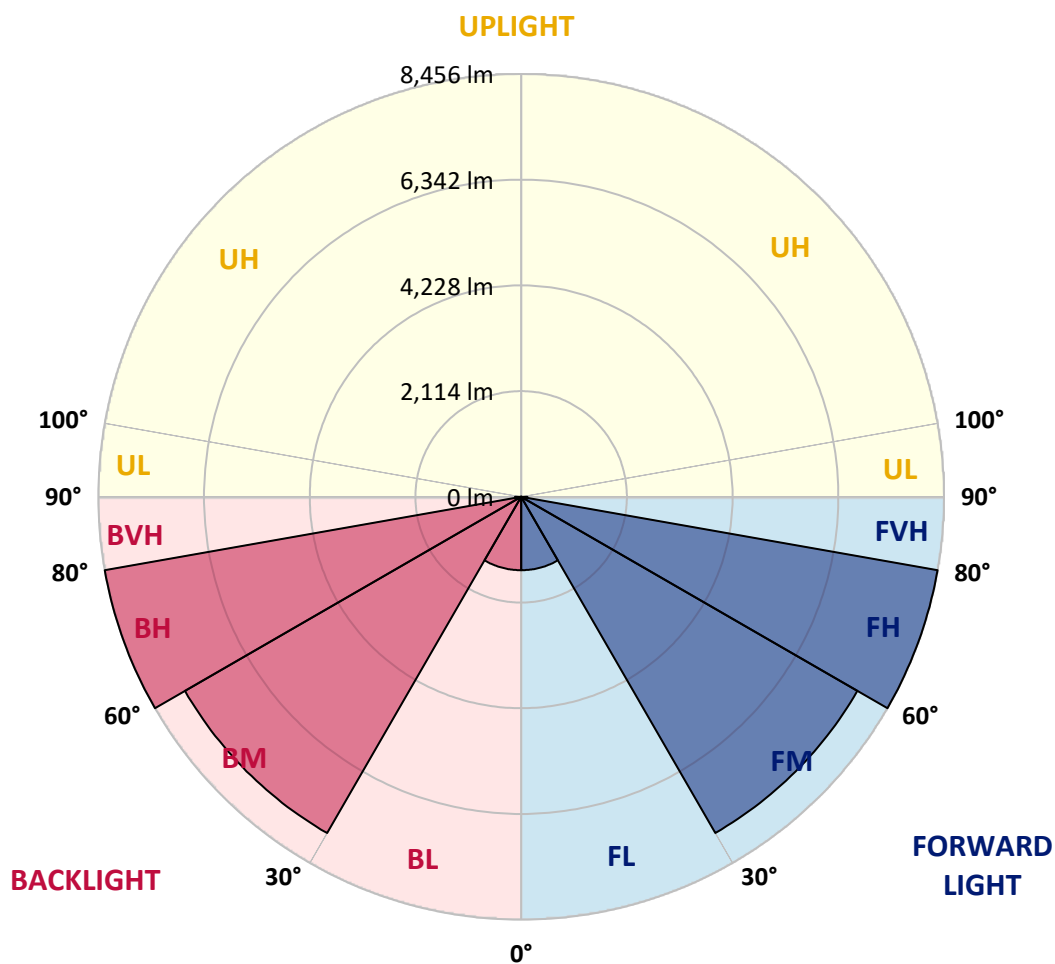
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1467.7	4.1			
FM	(30°-60°)	7763.5	21.8			
FH	(60°-80°)	8456.0	23.7			G4/12000
FVH	(80°-90°)	124.3	0.3			G2/225
BL	(0°-30°)	1467.7	4.1	B3/2500		
BM	(30°-60°)	7763.5	21.8	B4/8500		
BH	(60°-80°)	8456.0	23.7	B5		G4/12000
BVH	(80°-90°)	124.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0
2.5°	3536.8	3540.1	3540.1	3540.1	3538.5	3538.5	3535.2	3538.5	3536.8	3532.0	3533.6
5°	3507.3	3510.6	3510.6	3509.0	3513.9	3512.2	3507.3	3510.6	3509.0	3505.7	3507.3
7.5°	3464.8	3469.7	3469.7	3468.1	3473.1	3471.3	3468.1	3469.7	3469.7	3464.8	3464.8
10°	3417.3	3420.6	3420.6	3418.9	3427.1	3427.1	3425.5	3430.4	3432.1	3427.1	3423.8
12.5°	3373.1	3378.0	3378.0	3384.6	3392.7	3396.0	3404.2	3410.7	3417.3	3415.7	3409.1
15°	3346.8	3350.1	3356.7	3364.8	3378.0	3389.4	3402.6	3417.3	3430.4	3433.7	3423.8
17.5°	3330.4	3335.3	3345.2	3356.7	3374.7	3394.3	3414.1	3433.7	3451.7	3458.3	3446.8
20°	3325.6	3328.8	3338.6	3358.3	3382.8	3412.3	3440.2	3463.2	3487.8	3495.9	3487.8
22.5°	3335.3	3341.9	3353.3	3376.3	3409.1	3446.8	3479.6	3510.6	3541.7	3556.5	3545.0
25°	3379.6	3386.2	3400.9	3430.4	3466.5	3505.7	3543.4	3579.5	3607.3	3622.1	3613.9
27.5°	3461.6	3469.7	3487.8	3517.2	3556.5	3599.1	3640.1	3669.6	3692.5	3697.5	3687.6
30°	3584.4	3602.4	3623.7	3656.5	3702.4	3738.5	3779.3	3805.5	3833.4	3833.4	3825.1
32.5°	3776.0	3794.0	3817.0	3848.1	3884.1	3923.5	3959.5	3982.5	4011.9	4013.5	3994.0
35°	4062.7	4070.9	4090.5	4110.3	4143.0	4177.4	4208.5	4223.3	4247.9	4249.5	4231.5
37.5°	4441.2	4442.8	4455.9	4462.4	4491.9	4529.6	4559.1	4568.9	4591.8	4588.6	4570.6
40°	4881.8	4890.0	4895.0	4904.7	4935.9	4972.0	5003.1	5008.0	5032.6	5027.7	5004.7
42.5°	5391.3	5394.5	5422.4	5437.2	5466.7	5484.7	5524.0	5528.9	5558.3	5545.4	5519.1
45°	5963.1	5992.6	6018.8	6048.3	6079.3	6100.6	6131.7	6125.2	6144.8	6125.2	6110.5
47.5°	6564.3	6585.6	6644.5	6690.4	6741.2	6759.3	6803.5	6783.8	6803.5	6775.6	6770.7
50°	7226.1	7263.8	7314.6	7367.0	7421.0	7450.5	7507.9	7483.2	7509.5	7483.2	7468.5
52.5°	7878.1	7887.9	7999.3	8076.3	8151.7	8186.0	8220.4	8208.9	8210.7	8208.9	8194.2
55°	8497.3	8520.2	8631.7	8736.5	8867.6	8964.1	9023.1	9016.6	9001.9	8987.1	8962.5
57.5°	9195.1	9218.1	9345.9	9475.3	9624.4	9762.0	9881.6	10004.5	10052.0	10065.1	10011.0
60°	10138.8	10137.2	10307.5	10464.8	10677.8	10882.6	11144.7	11411.7	11718.0	11860.5	11672.1
62.5°	11098.8	11138.1	11383.8	11662.4	12101.3	12529.0	13012.2	13487.3	13972.2	14366.9	13947.6
65°	10984.1	11134.8	11500.1	12130.8	12941.8	13905.0	14946.8	16049.4	17045.4	17730.1	16961.9
67.5°	9519.5	9734.1	10106.1	10872.7	11886.8	13276.0	15025.6	17205.9	19740.3	20965.6	19447.0
70°	6900.0	7142.5	7532.5	8281.1	9285.3	10605.7	12506.1	15123.7	18478.8	19714.0	18041.4
72.5°	3433.7	3564.7	3805.5	4282.2	5042.4	6113.7	7837.1	10353.4	13321.8	14455.4	12927.0
75°	1166.4	1227.0	1268.0	1423.5	1664.4	2085.4	2942.3	4526.3	6904.9	8277.8	6806.8
77.5°	673.2	674.9	702.7	730.6	771.6	817.5	932.1	1223.7	2116.6	3006.0	2190.3
80°	435.7	434.1	457.0	478.3	506.2	529.2	535.7	566.8	653.6	774.8	692.9
82.5°	226.0	253.9	304.8	332.5	385.0	394.8	381.8	370.3	391.4	406.2	416.1
85°	124.5	108.1	162.1	209.7	232.6	235.9	235.9	222.8	231.0	226.0	245.8
87.5°	57.4	52.5	63.9	103.2	109.8	93.4	98.4	86.9	62.3	60.6	68.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0	3550.0
2.5°	3533.6	3535.2	3535.2	3540.1	3541.7	3545.0	3548.3	3550.0
5°	3505.7	3510.6	3507.3	3512.2	3512.2	3515.5	3515.5	3517.2
7.5°	3464.8	3469.7	3469.7	3469.7	3468.1	3473.1	3473.1	3473.1
10°	3422.2	3425.5	3423.8	3420.6	3417.3	3422.2	3420.6	3418.9
12.5°	3409.1	3400.9	3394.3	3391.1	3384.6	3386.2	3381.2	3381.2
15°	3417.3	3402.6	3391.1	3386.2	3379.6	3376.3	3373.1	3374.7
17.5°	3438.6	3420.6	3405.8	3397.6	3389.4	3384.6	3378.0	3379.6
20°	3476.3	3455.0	3433.7	3417.3	3402.6	3394.3	3389.4	3387.8
22.5°	3532.0	3500.7	3469.7	3445.2	3425.5	3414.1	3409.1	3405.8
25°	3595.8	3561.5	3525.4	3497.5	3477.9	3463.2	3453.3	3453.3
27.5°	3676.1	3648.2	3615.5	3582.7	3564.7	3550.0	3543.4	3540.1
30°	3810.4	3784.2	3758.0	3727.0	3704.0	3689.2	3677.7	3668.0
32.5°	3982.5	3961.2	3939.9	3917.0	3895.6	3876.0	3858.0	3849.7
35°	4224.9	4208.5	4193.8	4167.5	4159.4	4147.9	4138.0	4129.9
37.5°	4559.1	4552.5	4552.5	4524.7	4518.2	4513.3	4503.4	4505.1
40°	4998.2	5004.7	4996.5	4986.7	4981.7	4968.7	4968.7	4980.1
42.5°	5517.5	5522.4	5540.4	5524.0	5542.0	5525.7	5515.9	5524.0
45°	6120.2	6138.3	6174.3	6158.0	6169.5	6141.6	6107.1	6108.8
47.5°	6796.9	6813.3	6828.0	6816.5	6818.3	6772.3	6726.4	6715.0
50°	7499.7	7506.2	7514.5	7498.0	7501.3	7450.5	7398.1	7399.7
52.5°	8194.2	8225.4	8258.2	8213.9	8204.1	8146.7	8073.0	8043.5
55°	8988.8	9033.0	8995.4	8918.3	8841.4	8764.3	8667.6	8651.3
57.5°	9968.4	9893.1	9775.1	9629.3	9522.8	9414.8	9316.4	9275.4
60°	11331.4	11048.0	10835.0	10618.8	10482.8	10350.1	10220.6	10201.1
62.5°	13257.9	12768.1	12343.8	11896.5	11531.2	11246.2	11018.5	10954.7
65°	15672.5	14514.4	13510.2	12573.1	11758.9	11144.7	10758.0	10587.7
67.5°	16711.2	14424.3	12702.6	11372.4	10307.5	9563.8	9146.1	8938.0
70°	14684.8	11962.1	10089.6	8757.7	7788.0	6995.1	6616.6	6393.9
72.5°	10102.7	7609.5	6017.1	4911.3	4136.4	3473.1	3210.9	3191.3
75°	4536.1	3004.4	2070.7	1595.6	1343.4	1168.0	1114.0	1073.0
77.5°	1269.6	938.6	837.2	783.1	730.6	670.0	647.1	651.9
80°	617.7	583.2	560.3	525.9	478.3	427.5	404.6	414.4
82.5°	409.5	404.6	419.3	394.8	326.0	276.9	232.6	212.9
85°	249.0	252.3	257.2	258.8	219.5	153.9	104.9	118.0
87.5°	98.4	113.1	122.9	127.9	119.6	73.8	59.0	60.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)