

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: P269622

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31137.5 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

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

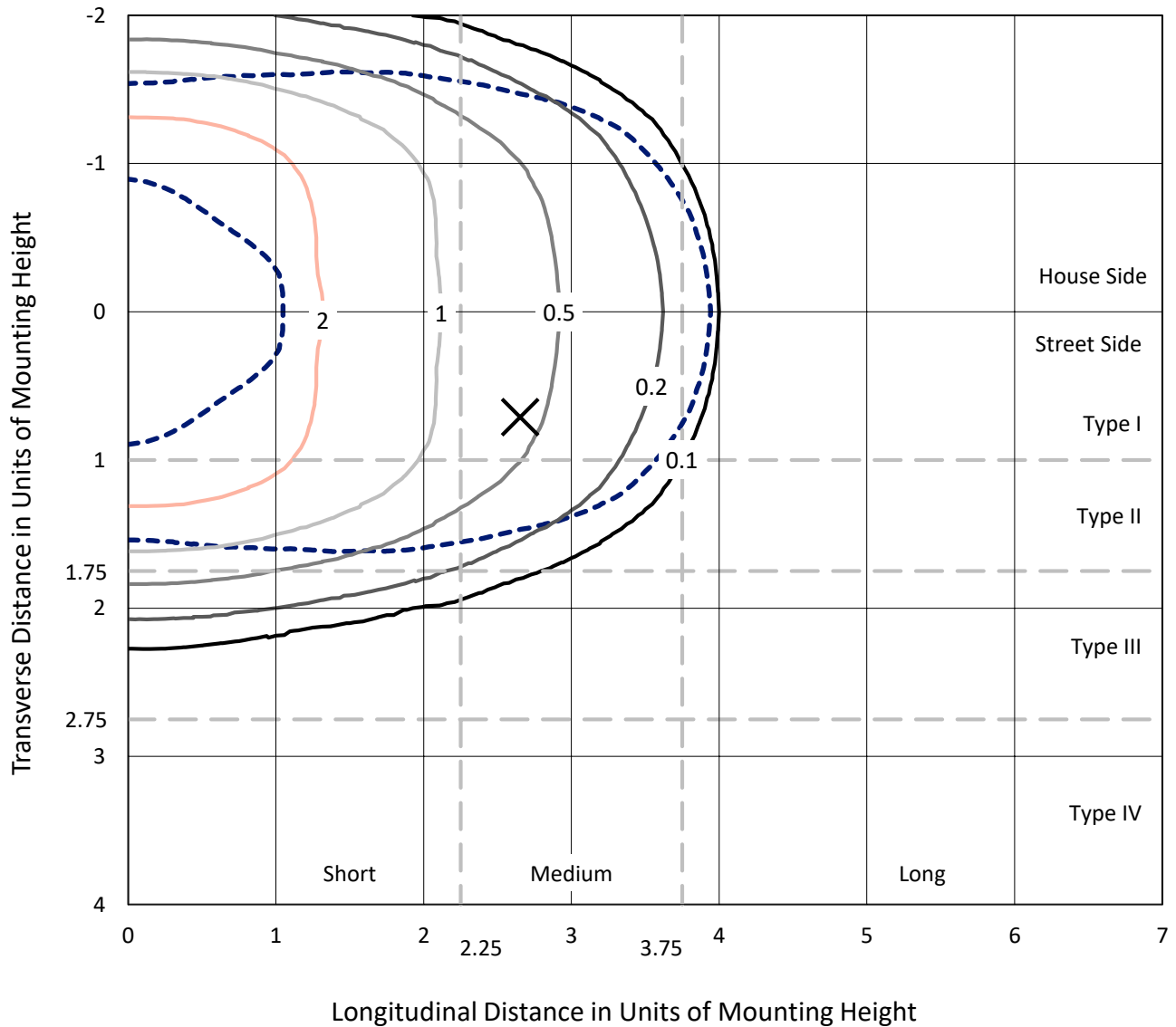


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

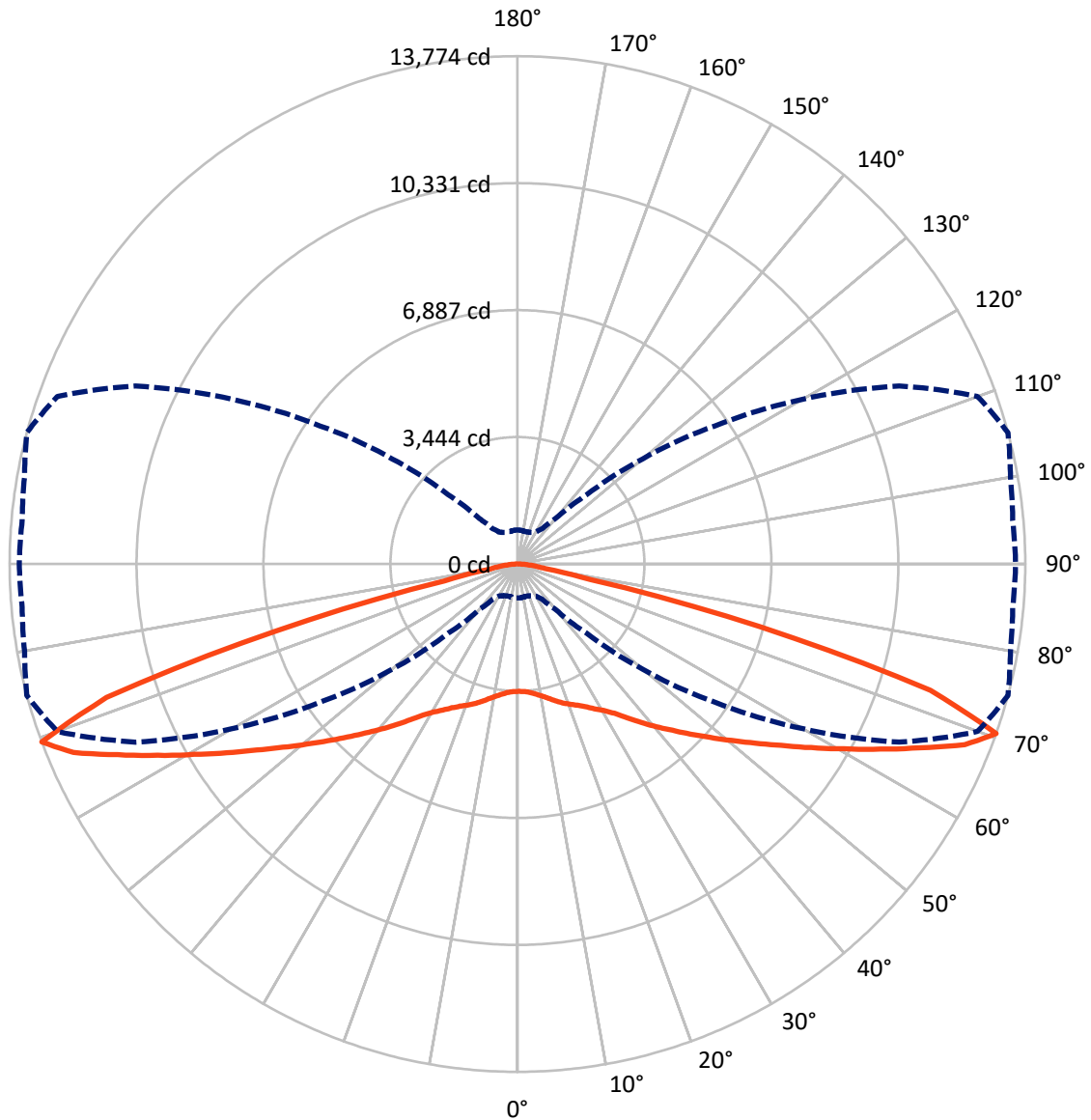


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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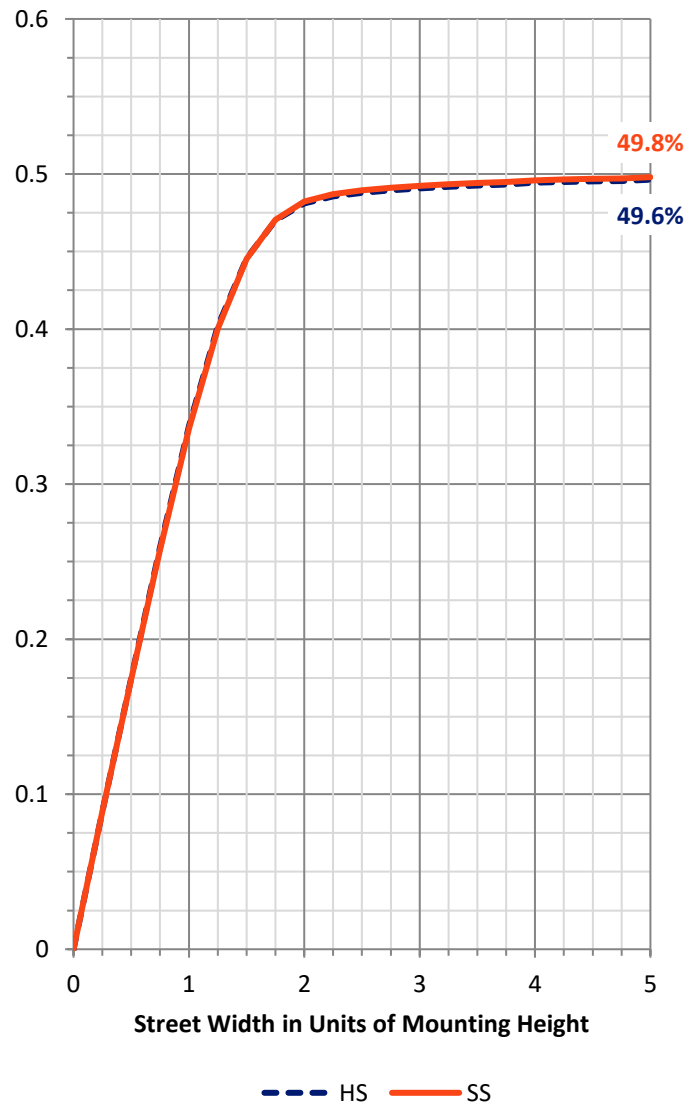
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15568.7	0.0	15568.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15568.7	0.0	15568.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	31137.5	0.0	31137.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.1
10°-20°	1029.3	3.3
20°-30°	1937.2	6.2
30°-40°	3430.4	11.0
40°-50°	5736.8	18.4
50°-60°	7994.2	25.7
60°-70°	7413.3	23.8
70°-80°	2954.4	9.5
80°-90°	310.5	1.0
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°	31137.5	100.0
0°-180°	31137.5	100.0



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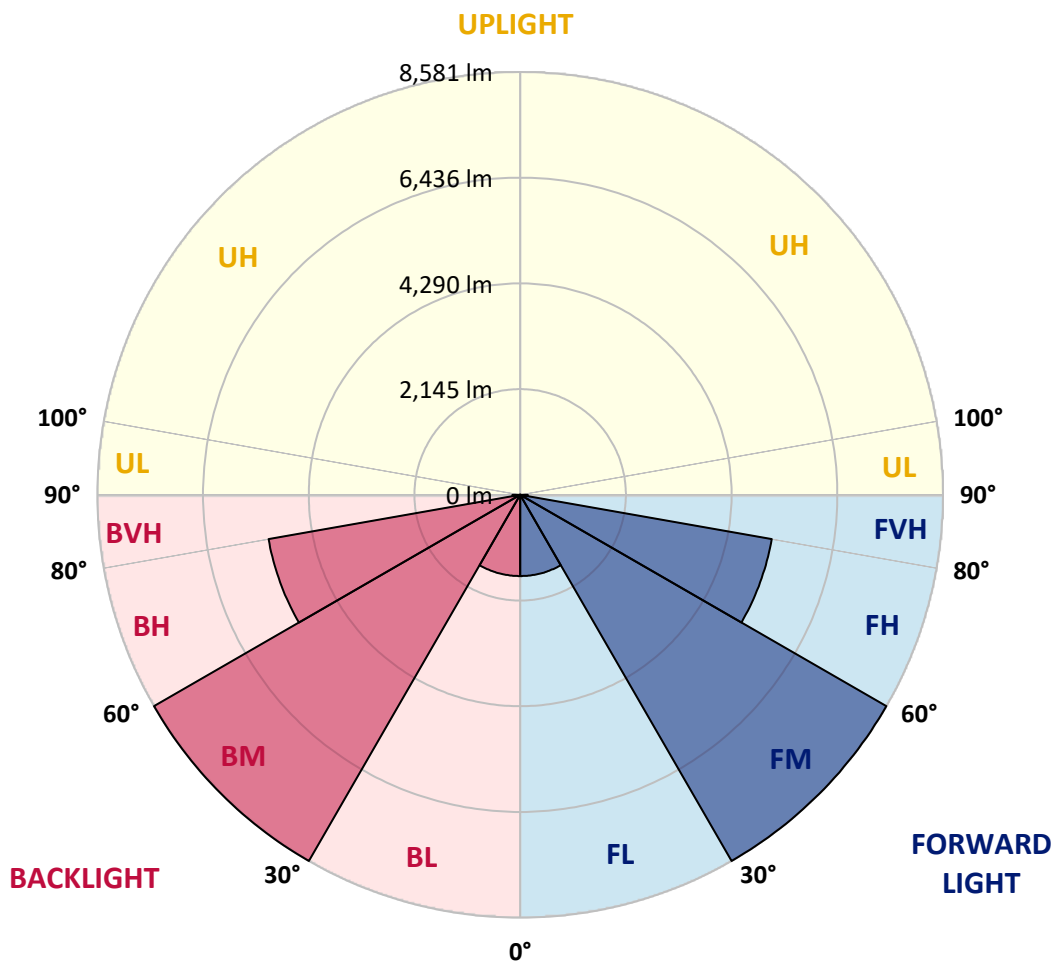
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.9	5.3			
FM	(30°-60°)	8580.7	27.6			
FH	(60°-80°)	5183.9	16.6			G3/7500
FVH	(80°-90°)	155.3	0.5			G2/225
BL	(0°-30°)	1648.9	5.3	B3/2500		
BM	(30°-60°)	8580.7	27.6	B5		
BH	(60°-80°)	5183.9	16.6	B5		G5
BVH	(80°-90°)	155.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9
2.5°	3448.0	3445.0	3448.0	3446.4	3449.4	3449.4	3452.4	3458.2	3458.2	3462.6	3461.2
5°	3414.2	3412.8	3417.2	3421.6	3426.0	3434.7	3443.6	3456.8	3467.1	3474.5	3481.8
7.5°	3348.0	3348.0	3353.8	3364.2	3374.5	3393.5	3414.2	3440.6	3467.1	3489.1	3508.3
10°	3293.5	3296.4	3303.7	3321.5	3339.1	3368.6	3396.5	3434.7	3471.5	3508.3	3537.7
12.5°	3261.0	3265.5	3278.8	3305.3	3334.7	3374.5	3417.2	3465.7	3506.9	3551.0	3580.5
15°	3271.4	3274.3	3293.5	3325.9	3364.2	3414.2	3471.5	3528.9	3577.5	3624.7	3664.4
17.5°	3328.8	3333.3	3355.3	3392.1	3431.9	3490.6	3552.4	3617.2	3677.5	3730.5	3779.1
20°	3431.9	3436.1	3464.1	3503.8	3551.0	3611.4	3673.1	3740.8	3808.5	3864.5	3918.9
22.5°	3577.5	3584.9	3611.4	3651.2	3704.0	3768.7	3842.4	3914.5	3979.2	4030.8	4079.4
25°	3768.7	3785.0	3810.0	3854.2	3910.1	3968.9	4048.4	4122.1	4183.8	4232.4	4267.7
27.5°	4039.6	4061.6	4080.8	4123.5	4177.8	4233.8	4313.3	4378.1	4436.9	4484.0	4510.5
30°	4398.6	4420.6	4439.9	4481.0	4531.1	4584.1	4659.1	4716.6	4753.3	4790.1	4788.7
32.5°	4834.3	4857.8	4865.1	4909.2	4960.8	5018.2	5085.9	5118.3	5147.6	5152.0	5125.5
35°	5321.4	5333.1	5362.5	5421.5	5480.3	5527.5	5592.0	5608.3	5608.3	5586.2	5527.5
37.5°	5855.5	5862.9	5904.1	5970.3	6030.7	6079.2	6123.3	6155.7	6139.6	6092.5	5993.9
40°	6441.2	6454.5	6513.4	6572.2	6639.9	6685.5	6732.6	6738.5	6722.3	6653.1	6519.2
42.5°	7000.4	7012.2	7071.1	7163.9	7252.0	7315.3	7359.5	7368.3	7316.9	7253.5	7087.3
45°	7481.7	7512.5	7589.2	7697.9	7826.0	7915.9	7976.1	8001.2	7955.5	7873.1	7680.4
47.5°	7862.9	7893.8	8002.6	8132.1	8291.0	8436.7	8536.9	8589.9	8578.0	8516.2	8305.8
50°	8142.4	8171.8	8289.6	8448.5	8634.0	8815.0	8985.7	9112.2	9156.3	9128.3	8935.6
52.5°	8174.8	8223.4	8361.8	8575.1	8816.4	9063.7	9306.5	9521.3	9667.0	9689.1	9546.4
55°	7723.0	7771.5	7962.8	8279.3	8638.5	9041.6	9430.0	9792.2	10079.1	10226.2	10151.1
57.5°	6657.6	6744.5	6946.1	7316.9	7845.2	8448.5	9068.1	9711.1	10295.5	10685.3	10760.4
60°	5102.1	5205.0	5408.2	5802.6	6391.3	7110.9	7937.9	8888.5	9920.2	10797.2	11321.1
62.5°	3272.9	3370.0	3583.3	3926.2	4405.9	5185.9	6073.4	7202.2	8588.3	9973.2	11221.1
65°	1682.0	1735.0	1846.8	2054.3	2428.2	3010.8	3807.0	4932.9	6517.7	8226.3	10030.6
67.5°	1065.5	1075.7	1100.8	1130.2	1225.8	1427.4	1798.2	2500.3	3804.1	5586.2	7697.9
70°	921.2	921.2	909.4	905.0	916.8	944.7	1002.1	1165.6	1605.5	2651.8	4439.9
72.5°	843.1	834.3	813.9	797.7	794.7	794.7	806.5	831.4	902.1	1080.1	1738.0
75°	777.0	752.1	724.0	704.9	697.5	690.2	688.7	693.1	707.9	735.8	829.9
77.5°	696.0	663.7	631.2	612.1	603.3	593.1	584.3	573.9	566.7	575.5	616.5
80°	598.9	562.2	537.1	525.4	516.5	501.9	482.7	465.1	448.9	445.9	470.9
82.5°	482.7	440.0	441.4	445.9	429.7	409.1	388.4	369.4	341.4	326.8	341.4
85°	390.0	367.9	357.5	385.6	361.9	331.1	298.7	264.9	220.8	185.4	201.6
87.5°	151.5	151.5	226.6	348.8	313.5	256.0	219.2	186.8	116.3	89.8	91.3
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°	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9	3453.9
2.5°	3459.7	3462.6	3461.2	3459.7	3459.7	3458.2	3459.7	3459.7
5°	3486.2	3493.6	3493.6	3496.6	3496.6	3498.0	3499.4	3498.0
7.5°	3525.9	3539.2	3548.0	3558.4	3559.9	3561.3	3564.2	3561.3
10°	3565.7	3592.2	3611.4	3630.5	3639.4	3642.3	3645.2	3645.2
12.5°	3615.8	3652.6	3686.4	3720.2	3736.4	3745.3	3745.3	3751.1
15°	3698.1	3735.0	3774.7	3820.3	3848.2	3863.0	3867.5	3867.5
17.5°	3814.5	3846.8	3880.7	3924.8	3960.1	3979.2	3983.7	3982.1
20°	3949.8	3980.7	3999.9	4027.8	4058.7	4080.8	4086.7	4086.7
22.5°	4104.4	4122.1	4124.9	4133.8	4158.8	4188.2	4201.5	4204.3
25°	4275.0	4279.4	4267.7	4267.7	4283.8	4311.9	4325.1	4326.5
27.5°	4495.7	4473.6	4444.3	4433.9	4444.3	4476.7	4492.9	4498.7
30°	4771.0	4718.0	4650.3	4613.5	4607.6	4650.3	4679.7	4684.1
32.5°	5085.9	5009.4	4919.6	4844.6	4825.4	4851.9	4887.1	4885.7
35°	5459.7	5368.5	5259.5	5163.8	5119.7	5146.2	5196.2	5202.2
37.5°	5890.8	5771.7	5646.6	5526.0	5456.8	5464.1	5517.1	5534.7
40°	6372.0	6217.6	6060.1	5898.2	5799.6	5780.6	5845.2	5855.5
42.5°	6887.1	6688.5	6489.9	6289.7	6163.1	6133.6	6208.7	6204.4
45°	7436.1	7182.9	6950.5	6729.7	6579.5	6535.3	6597.2	6597.2
47.5°	8026.1	7714.1	7437.5	7187.3	7023.9	6960.7	7019.5	7023.9
50°	8651.5	8320.6	7995.3	7717.1	7521.4	7440.5	7516.9	7528.8
52.5°	9274.1	8951.8	8623.6	8305.8	8068.8	7970.2	8058.5	8096.9
55°	9905.4	9589.0	9275.5	8965.1	8683.9	8567.8	8661.8	8710.4
57.5°	10572.1	10279.2	9980.4	9667.0	9396.2	9215.3	9315.3	9380.0
60°	11353.5	11103.3	10792.7	10447.0	10173.2	9989.3	10046.7	10104.0
62.5°	11971.5	12068.6	11805.3	11405.1	11053.3	10817.7	10873.8	10934.1
65°	11672.8	12669.2	12903.2	12498.4	12011.2	11644.9	11621.4	11652.3
67.5°	9756.9	11692.0	13103.2	13488.8	13081.2	12572.0	12477.7	12523.5
70°	6526.5	8937.1	11427.1	13281.4	13774.3	13577.2	13484.4	13512.3
72.5°	3134.5	5205.0	7752.5	10217.4	11718.5	12407.2	12628.0	12735.4
75°	1146.3	2066.1	3736.4	5630.3	6797.4	7868.8	8567.8	8853.2
77.5°	691.6	834.3	1193.5	1796.8	2035.2	2278.0	2183.9	2231.0
80°	512.2	578.4	654.9	735.8	762.3	762.3	732.8	709.3
82.5°	359.1	401.7	438.6	482.7	494.4	472.4	388.4	309.0
85°	231.0	250.2	266.3	294.4	287.0	273.8	184.0	163.3
87.5°	106.0	120.6	126.5	139.7	133.8	128.0	91.3	76.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)