

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: P191013

Luminaire Tested: **GLEON-AF-05-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191013
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-05-LED-E1-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31108.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 279
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

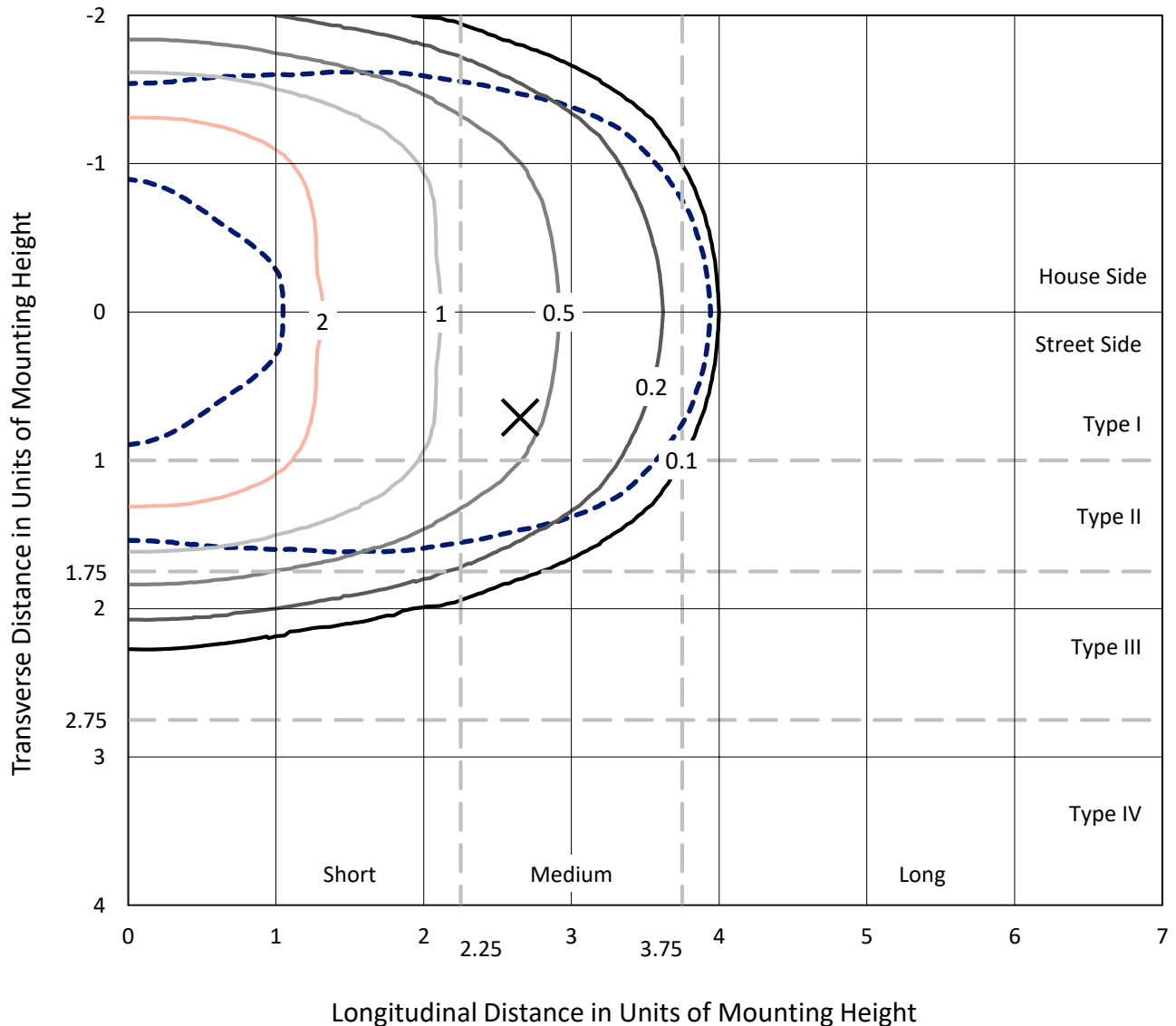


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

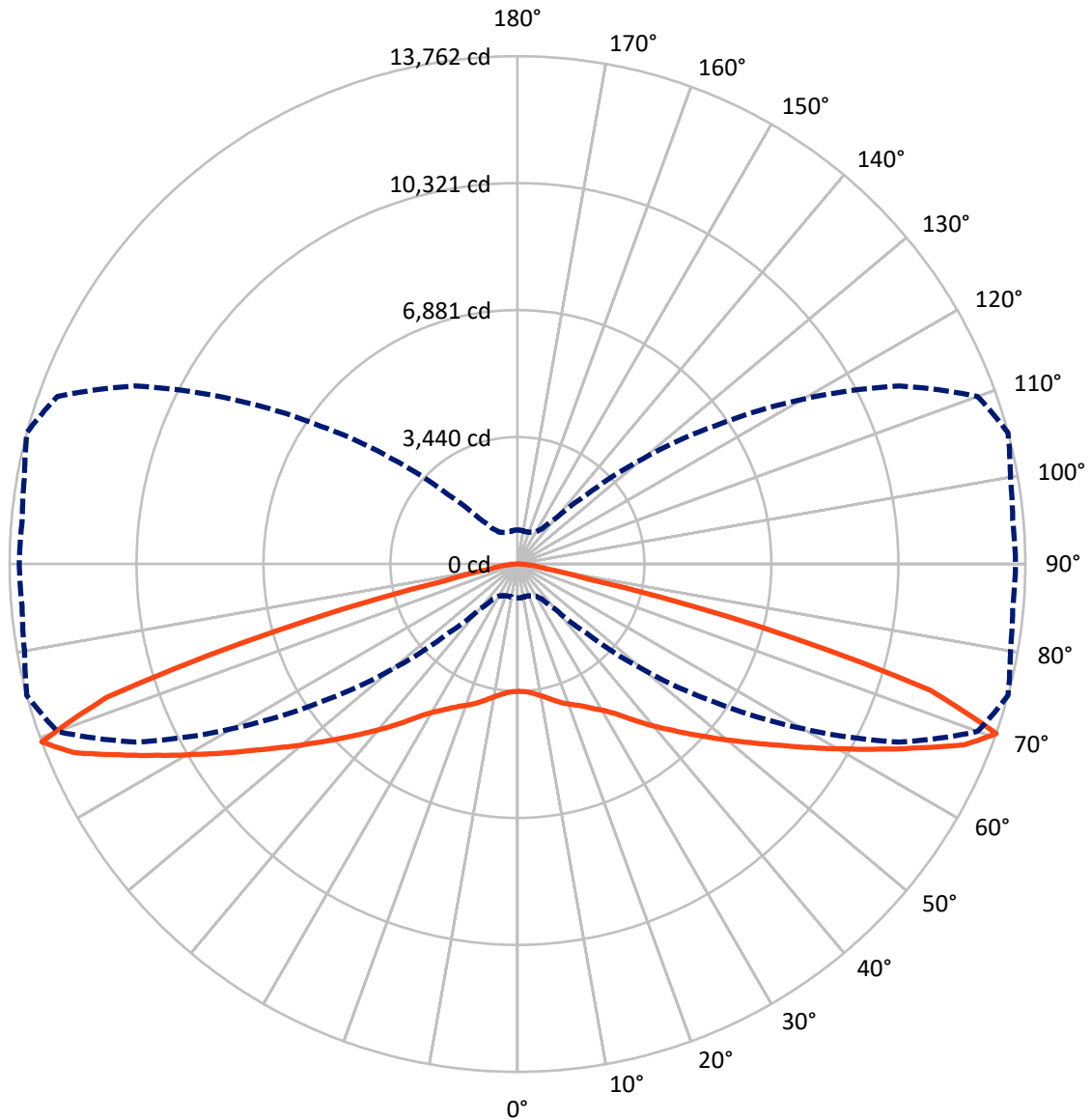


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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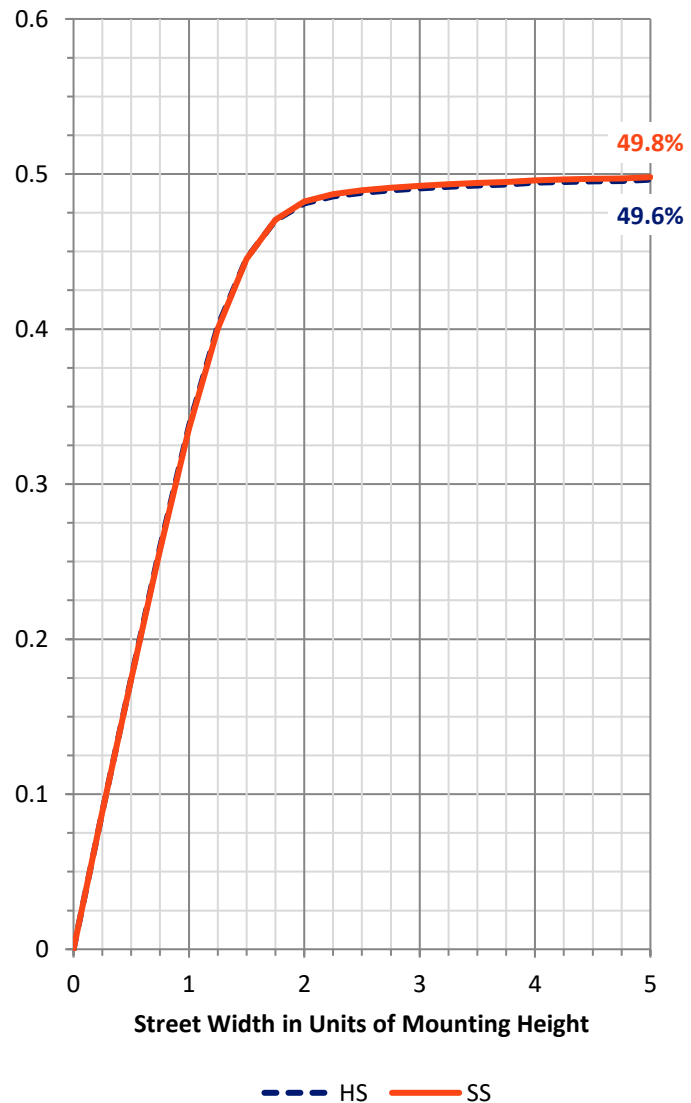
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15554.5	0.0	15554.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15554.5	0.0	15554.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31108.9	0.0	31108.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.9	1.1
10°-20°	1028.3	3.3
20°-30°	1935.4	6.2
30°-40°	3427.3	11.0
40°-50°	5731.5	18.4
50°-60°	7986.9	25.7
60°-70°	7406.6	23.8
70°-80°	2951.7	9.5
80°-90°	310.3	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°	31108.9	100.0
0°-180°	31108.9	100.0

Coefficient of Utilization



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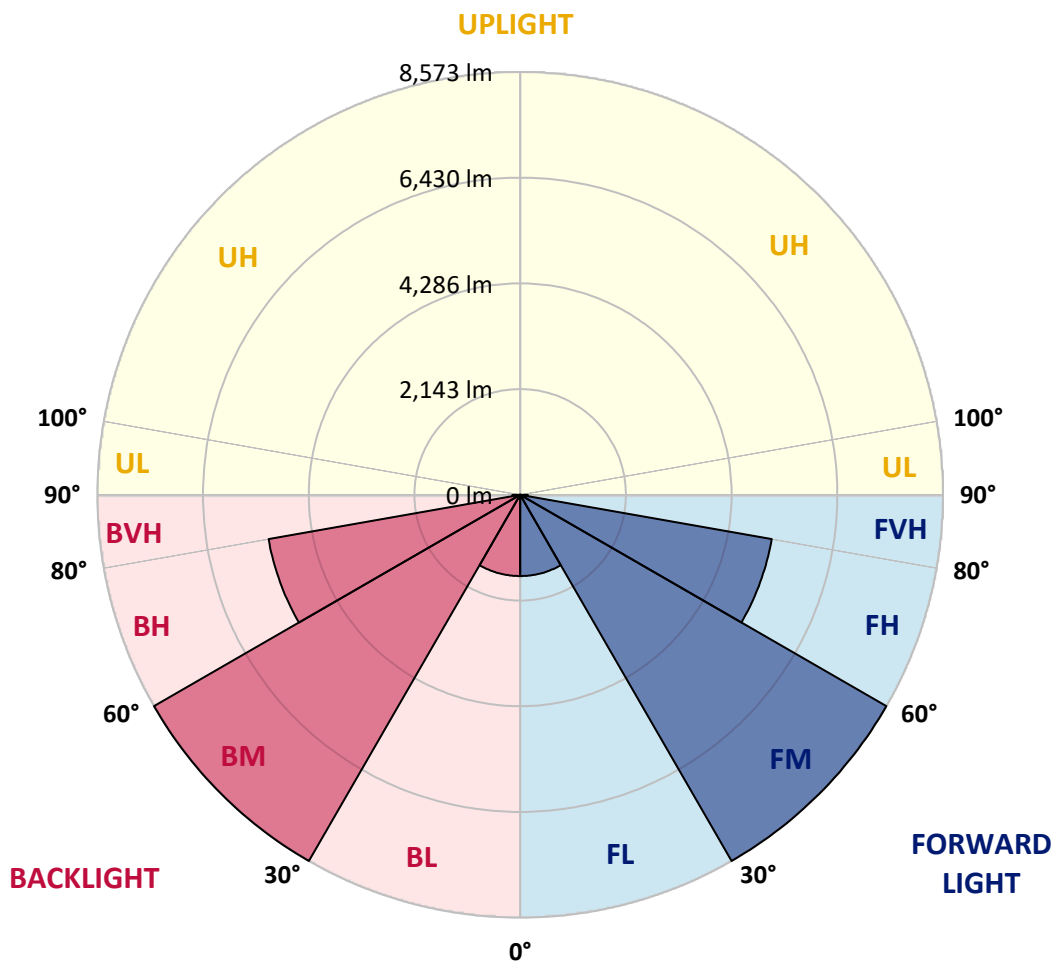
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1647.3	5.3			
FM	(30°-60°)	8572.8	27.6			
FH	(60°-80°)	5179.1	16.6			G3/7500
FVH	(80°-90°)	155.1	0.5			G2/225
BL	(0°-30°)	1647.3	5.3	B3/2500		
BM	(30°-60°)	8572.8	27.6	B5		
BH	(60°-80°)	5179.1	16.6	B5		G5
BVH	(80°-90°)	155.1	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°	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7
2.5°	3444.8	3441.9	3444.8	3443.4	3446.3	3446.3	3449.3	3455.1	3455.1	3459.5	3458.1
5°	3411.0	3409.5	3414.0	3418.4	3422.8	3431.6	3440.4	3453.7	3463.9	3471.3	3478.6
7.5°	3344.8	3344.8	3350.8	3361.0	3371.3	3390.5	3411.0	3437.5	3463.9	3486.0	3505.1
10°	3290.4	3293.4	3300.8	3318.4	3336.0	3365.4	3393.3	3431.6	3468.3	3505.1	3534.5
12.5°	3258.1	3262.5	3275.8	3302.2	3331.6	3371.3	3414.0	3462.5	3503.6	3547.7	3577.2
15°	3268.4	3271.3	3290.4	3322.7	3361.0	3411.0	3468.3	3525.7	3574.2	3621.2	3660.9
17.5°	3325.7	3330.1	3352.2	3388.9	3428.6	3487.4	3549.2	3613.9	3674.2	3727.1	3775.6
20°	3428.6	3433.0	3460.9	3500.7	3547.7	3608.0	3669.7	3737.5	3805.1	3860.9	3915.3
22.5°	3574.2	3581.6	3608.0	3647.7	3700.6	3765.4	3838.8	3910.9	3975.6	4027.1	4075.5
25°	3765.4	3781.5	3806.5	3850.6	3906.4	3965.3	4044.6	4118.2	4180.0	4228.5	4263.8
27.5°	4035.8	4057.9	4077.1	4119.6	4174.0	4229.9	4309.4	4374.0	4432.9	4479.9	4506.4
30°	4394.6	4416.7	4435.8	4476.9	4527.0	4579.9	4654.8	4712.2	4748.9	4785.7	4784.2
32.5°	4829.9	4853.4	4860.7	4904.8	4956.3	5013.6	5081.2	5113.5	5143.0	5147.4	5120.9
35°	5316.5	5328.2	5357.6	5416.4	5475.2	5522.3	5587.1	5603.2	5603.2	5581.1	5522.3
37.5°	5850.2	5857.5	5898.7	5964.8	6025.2	6073.7	6117.8	6150.1	6133.9	6086.9	5988.4
40°	6435.4	6448.6	6507.4	6566.2	6633.8	6679.4	6726.4	6732.3	6716.2	6647.0	6513.2
42.5°	6994.0	7005.8	7064.6	7157.3	7245.5	7308.7	7352.8	7361.6	7310.1	7246.9	7080.8
45°	7474.8	7505.7	7582.1	7691.0	7818.8	7908.5	7968.8	7993.8	7948.2	7865.9	7673.3
47.5°	7855.6	7886.5	7995.3	8124.7	8283.4	8429.0	8529.0	8581.9	8570.2	8508.4	8298.2
50°	8135.0	8164.4	8282.0	8440.8	8626.0	8806.9	8977.4	9103.9	9147.9	9120.0	8927.4
52.5°	8167.3	8215.8	8354.0	8567.2	8808.3	9055.4	9297.9	9512.6	9658.2	9680.2	9537.6
55°	7715.9	7764.5	7955.6	8271.7	8630.4	9033.3	9421.5	9783.1	10069.8	10216.8	10141.8
57.5°	6651.4	6738.2	6939.6	7310.1	7838.0	8440.8	9059.8	9702.3	10286.0	10675.6	10750.6
60°	5097.4	5200.3	5403.2	5797.3	6385.4	7104.3	7930.6	8880.4	9911.1	10787.3	11310.8
62.5°	3269.9	3366.9	3580.1	3922.7	4402.0	5181.2	6067.7	7195.4	8580.4	9964.0	11210.7
65°	1680.5	1733.4	1845.2	2052.4	2425.9	3008.2	3803.5	4928.4	6511.8	8218.8	10021.3
67.5°	1064.5	1074.7	1099.8	1129.1	1224.8	1426.2	1796.7	2497.9	3800.7	5581.1	7691.0
70°	920.3	920.3	908.6	904.2	916.0	943.9	1001.3	1164.4	1604.1	2649.4	4435.8
72.5°	842.5	833.6	813.0	796.9	793.9	793.9	805.7	830.7	901.3	1079.2	1736.4
75°	776.3	751.3	723.3	704.3	696.9	689.6	688.0	692.5	707.2	735.1	829.2
77.5°	695.4	663.1	630.8	611.6	602.8	592.5	583.7	573.4	566.1	574.9	616.0
80°	598.4	561.6	536.6	524.9	516.1	501.3	482.2	464.6	448.5	445.5	470.5
82.5°	482.2	439.6	441.1	445.5	429.3	408.8	388.1	369.1	341.1	326.4	341.1
85°	389.6	367.5	357.3	385.2	361.7	330.8	298.5	264.6	220.5	185.3	201.4
87.5°	151.4	151.4	226.4	348.4	313.1	255.8	219.1	186.7	116.1	89.7	91.1
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°	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7	3450.7
2.5°	3456.6	3459.5	3458.1	3456.6	3456.6	3455.1	3456.6	3456.6
5°	3483.0	3490.4	3490.4	3493.4	3493.4	3494.8	3496.2	3494.8
7.5°	3522.7	3536.0	3544.8	3555.1	3556.6	3558.0	3561.0	3558.0
10°	3562.4	3588.9	3608.0	3627.2	3636.0	3638.9	3641.8	3641.8
12.5°	3612.4	3649.2	3683.0	3716.8	3733.0	3741.9	3741.9	3747.7
15°	3694.8	3731.5	3771.2	3816.8	3844.8	3859.5	3863.9	3863.9
17.5°	3810.9	3843.2	3877.1	3921.2	3956.5	3975.6	3980.0	3978.6
20°	3946.2	3977.0	3996.2	4024.1	4055.0	4077.1	4082.9	4082.9
22.5°	4100.6	4118.2	4121.2	4130.0	4154.9	4184.4	4197.6	4200.5
25°	4271.1	4275.5	4263.8	4263.8	4279.9	4307.9	4321.1	4322.6
27.5°	4491.7	4469.6	4440.2	4429.9	4440.2	4472.5	4488.7	4494.6
30°	4766.6	4713.7	4646.0	4609.3	4603.4	4646.0	4675.4	4679.9
32.5°	5081.2	5004.8	4915.1	4840.1	4821.0	4847.5	4882.7	4881.3
35°	5454.7	5363.5	5254.7	5159.2	5115.1	5141.6	5191.5	5197.4
37.5°	5885.4	5766.4	5641.4	5520.9	5451.7	5459.1	5512.1	5529.7
40°	6366.2	6211.9	6054.5	5892.8	5794.3	5775.2	5839.9	5850.2
42.5°	6880.9	6682.3	6483.9	6283.9	6157.4	6128.1	6203.1	6198.7
45°	7429.3	7176.3	6944.1	6723.5	6573.6	6529.4	6591.2	6591.2
47.5°	8018.8	7707.1	7430.7	7180.8	7017.5	6954.3	7013.1	7017.5
50°	8643.7	8312.9	7987.9	7710.1	7514.5	7433.7	7510.1	7521.9
52.5°	9265.6	8943.7	8615.7	8298.2	8061.5	7963.0	8051.1	8089.4
55°	9896.3	9580.2	9267.1	8956.9	8676.1	8559.8	8654.0	8702.4
57.5°	10562.4	10269.8	9971.3	9658.2	9387.6	9206.8	9306.8	9371.5
60°	11343.1	11093.2	10782.9	10437.4	10163.9	9980.1	10037.5	10094.8
62.5°	11960.5	12057.6	11794.4	11394.5	11043.2	10807.9	10863.7	10924.1
65°	11662.2	12657.5	12891.2	12487.0	12000.3	11634.2	11610.7	11641.6
67.5°	9747.8	11681.3	13091.2	13476.5	13069.2	12560.5	12466.4	12511.9
70°	6520.6	8928.9	11416.6	13269.1	13761.7	13564.6	13472.1	13500.0
72.5°	3131.7	5200.3	7745.4	10208.0	11707.7	12395.8	12616.4	12723.7
75°	1145.3	2064.2	3733.0	5625.2	6791.2	7861.5	8559.8	8845.1
77.5°	691.0	833.6	1192.4	1795.2	2033.4	2276.0	2181.9	2228.9
80°	511.7	577.8	654.3	735.1	761.6	761.6	732.2	708.7
82.5°	358.7	401.4	438.1	482.2	494.0	472.0	388.1	308.7
85°	230.9	249.9	266.1	294.1	286.7	273.4	183.8	163.2
87.5°	105.9	120.6	126.4	139.6	133.8	127.9	91.1	76.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)