

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: P190921

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-AFL-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12294.8 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 124  
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

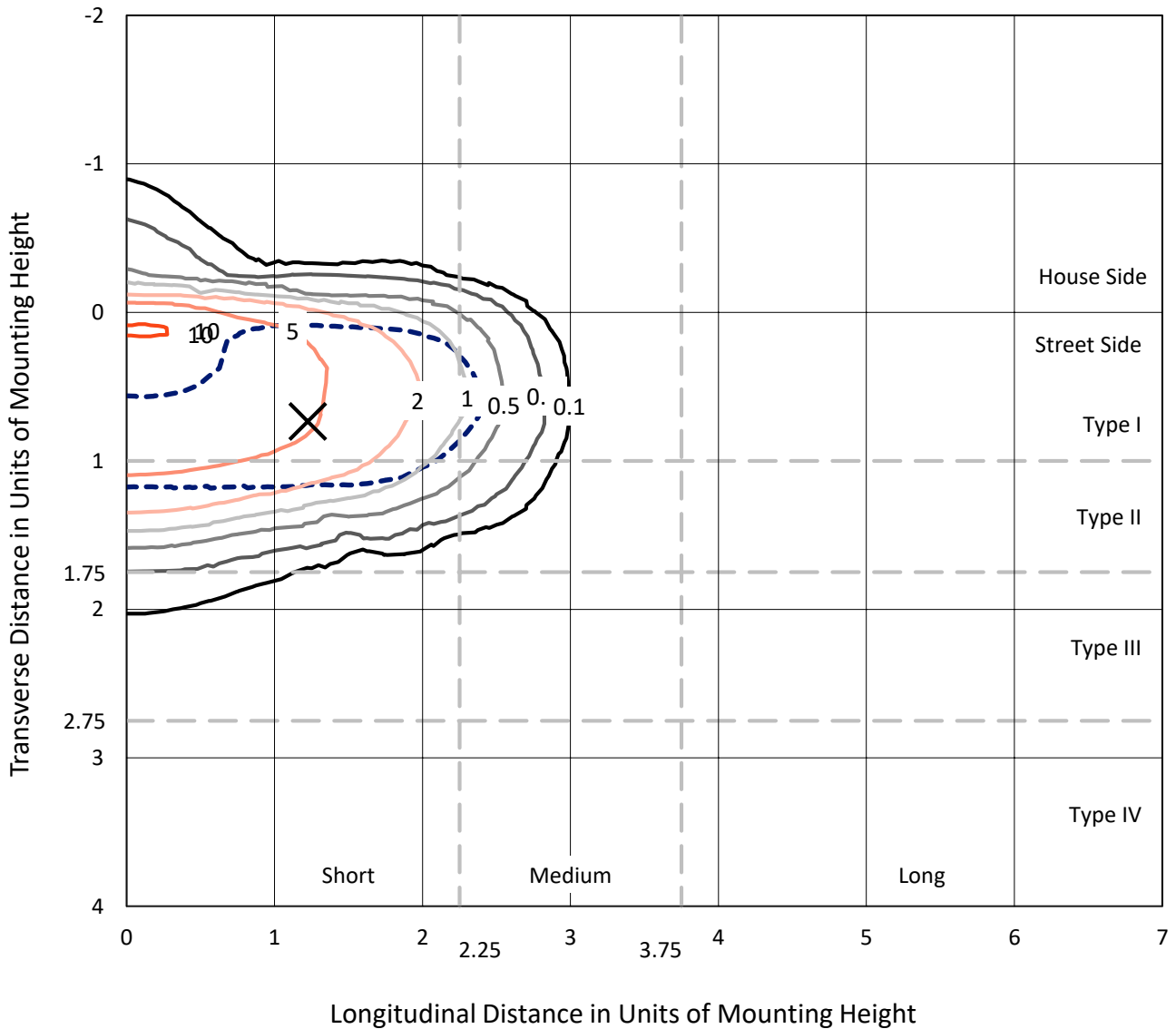


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### Iso-Footcandle Lines of Horizontal Illumination

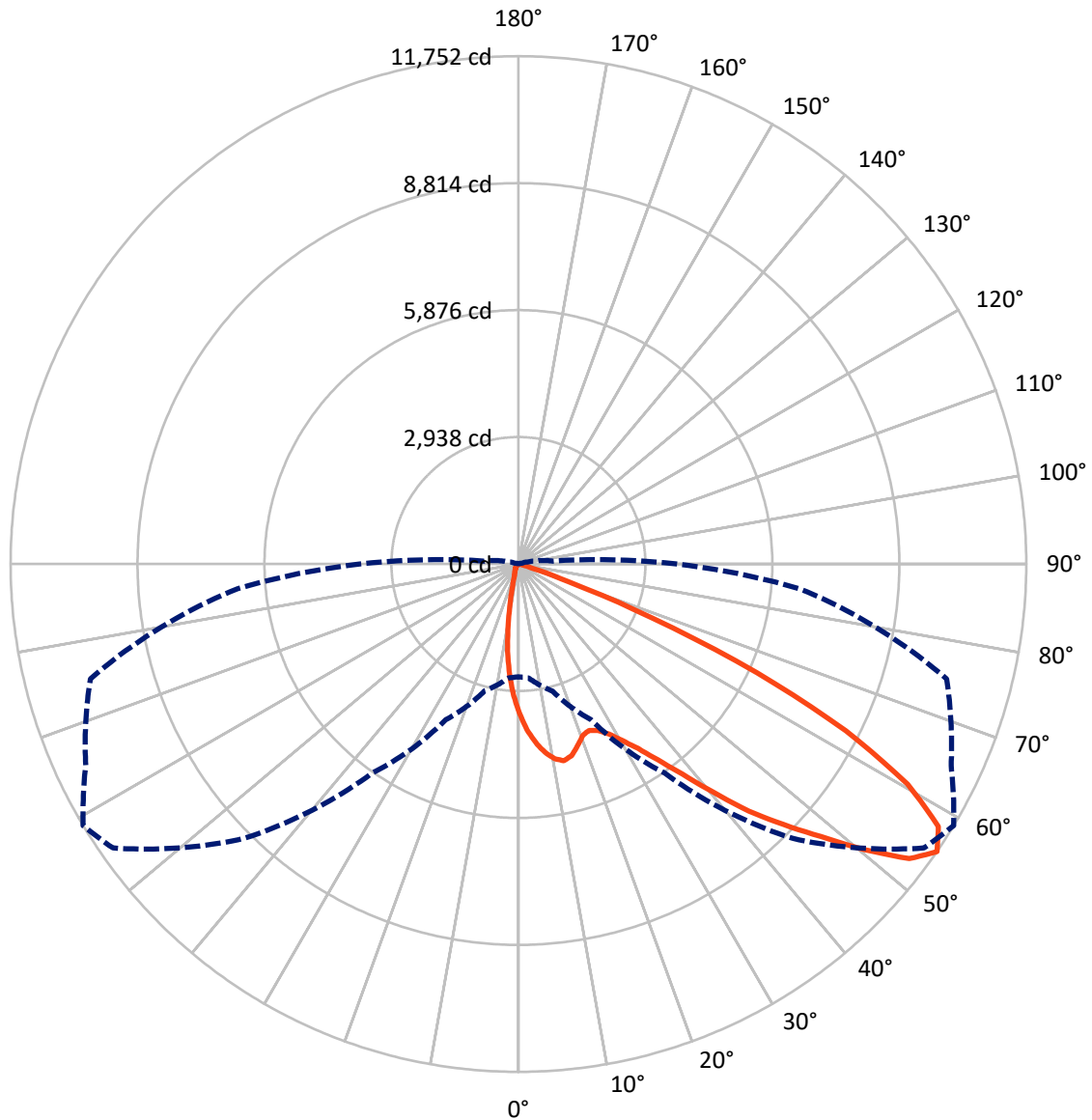
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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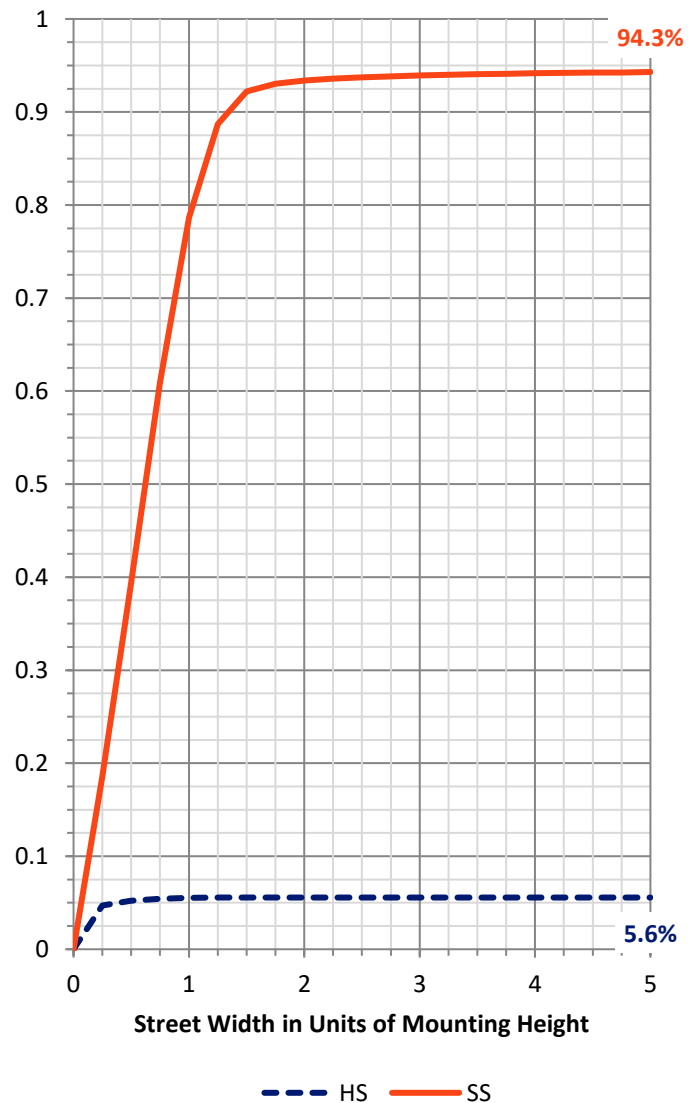
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	686.7	0.0	686.7
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	11608.1	0.0	11608.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	12294.8	0.0	12294.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.9	2.4
10°-20°	694.1	5.6
20°-30°	1181.1	9.6
30°-40°	2031.2	16.5
40°-50°	3135.9	25.5
50°-60°	3152.6	25.6
60°-70°	1616.7	13.1
70°-80°	175.2	1.4
80°-90°	18.3	0.1
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°	12294.8	100.0
0°-180°	12294.8	100.0

**Coefficient of Utilization**



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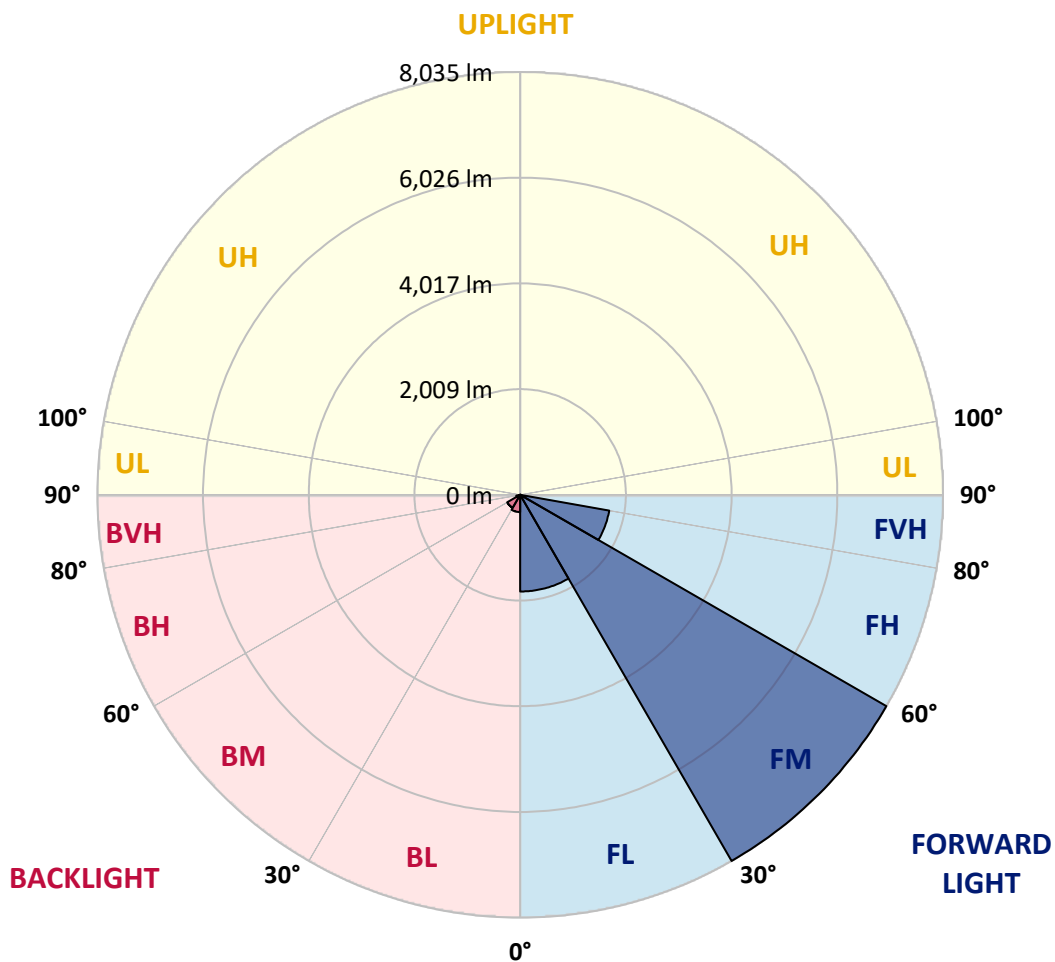
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1837.3	14.9			
FM	(30°-60°)	8034.6	65.3			
FH	(60°-80°)	1718.3	14.0			G1/1800
FVH	(80°-90°)	17.9	0.1			G1/100
BL	(0°-30°)	327.8	2.7	B1/500		
BM	(30°-60°)	285.0	2.3	B1/1000		
BH	(60°-80°)	73.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9
2.5°	4095.1	4051.6	4038.5	4029.8	3989.9	3939.8	3871.7	3839.7	3774.4	3669.2	3540.0
5°	4470.2	4462.2	4433.3	4417.2	4374.4	4303.3	4194.5	4142.2	4038.5	3861.4	3630.0
7.5°	4306.2	4356.3	4396.2	4462.9	4547.1	4544.3	4452.8	4398.4	4282.3	4048.6	3730.2
10°	3672.8	3713.4	3778.8	3930.4	4239.5	4512.3	4619.6	4580.5	4487.6	4220.6	3826.7
12.5°	3548.7	3544.4	3556.0	3600.3	3762.1	4150.9	4591.4	4670.5	4651.6	4378.0	3918.1
15°	3614.8	3609.7	3608.3	3623.5	3662.7	3826.7	4378.8	4605.9	4751.7	4523.9	3995.7
17.5°	3799.8	3778.1	3766.4	3754.1	3742.5	3783.1	4123.4	4425.2	4767.0	4651.6	4060.3
20°	4116.9	4080.6	4037.8	3968.1	3902.9	3882.5	4016.0	4239.5	4712.5	4748.8	4102.3
22.5°	4515.2	4468.8	4394.8	4267.8	4135.0	4058.0	4069.0	4180.7	4631.3	4854.7	4122.0
25°	4962.8	4903.4	4804.7	4628.3	4433.3	4296.8	4225.7	4264.9	4594.3	4978.8	4144.5
27.5°	5442.5	5376.4	5247.3	5007.1	4785.9	4601.5	4456.4	4451.4	4657.4	5141.4	4180.7
30°	5917.8	5907.5	5739.3	5485.3	5192.2	4968.0	4759.0	4732.2	4833.7	5366.3	4252.5
32.5°	6551.9	6475.7	6269.7	6008.4	5670.3	5401.1	5153.7	5091.3	5104.3	5628.2	4363.6
35°	7351.4	7268.0	6977.8	6617.2	6239.2	5921.4	5647.8	5562.9	5531.0	6057.0	4550.8
37.5°	7868.0	7866.6	7684.5	7317.4	6911.8	6561.3	6263.8	6164.4	6099.9	6575.1	4841.0
40°	7881.8	7915.9	7939.8	7936.3	7647.5	7324.6	7060.5	6937.9	6787.7	7267.2	5216.1
42.5°	7458.8	7546.6	7757.8	8116.2	8287.4	8159.0	7936.3	7815.9	7592.3	8008.1	5673.2
45°	6887.1	6948.0	7317.4	7977.6	8634.2	8986.1	8816.4	8600.9	8306.3	8780.8	6083.2
47.5°	6631.0	6641.8	6880.6	7605.4	8660.4	9663.8	9766.8	9416.4	8954.9	9403.4	6403.9
50°	5865.5	5885.0	6214.5	6960.4	8354.1	9983.8	10721.8	10389.4	9662.4	9882.9	6520.7
52.5°	4420.9	4448.4	4866.4	5900.3	7512.6	9847.4	11405.2	11324.7	10437.3	10117.3	6527.2
55°	2608.4	2644.7	3043.8	3971.7	5909.0	8979.7	11456.0	11752.0	11048.9	10255.9	6517.0
57.5°	1218.2	1243.6	1472.1	2046.1	3675.0	7096.7	10691.3	11458.9	11386.4	10329.1	6588.8
60°	647.2	654.5	709.6	885.9	1660.9	4500.0	9198.8	10347.4	11078.7	10430.7	6676.7
62.5°	494.8	497.1	494.1	515.2	698.0	1997.5	6953.1	8506.6	9840.2	10354.6	6579.4
65°	428.8	432.4	412.1	407.0	447.6	712.5	4130.7	6063.5	7732.4	9326.4	5917.0
67.5°	384.5	386.0	361.3	340.3	347.5	385.2	1629.7	3319.5	5118.1	6836.3	4288.8
70°	354.0	352.6	325.8	292.4	282.9	263.4	518.0	1216.8	2445.9	3466.8	1994.5
72.5°	313.4	314.1	301.2	257.6	235.1	184.3	240.2	354.8	729.9	944.7	467.3
75°	277.9	274.3	258.3	230.8	193.7	121.2	119.0	158.1	224.9	223.5	100.9
77.5°	201.0	197.3	202.4	189.3	148.7	78.4	59.5	76.2	91.5	88.5	28.3
80°	147.3	145.2	130.6	157.4	131.3	53.7	37.0	40.6	47.2	39.9	8.7
82.5°	100.9	100.1	92.2	87.1	74.8	32.6	23.2	25.4	30.5	22.5	4.4
85°	16.0	18.1	66.8	53.0	44.3	14.5	16.0	17.4	20.4	12.4	1.4
87.5°	0.0	0.0	31.2	27.6	8.7	5.8	9.4	10.1	10.1	6.5	0.0
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°	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9	3460.9
2.5°	3474.0	3401.4	3267.2	3128.7	3000.2	2847.1	2741.9	2662.8	2571.4	2546.7	2600.4
5°	3498.0	3360.8	3072.0	2757.9	2462.5	2135.3	1885.0	1686.9	1507.7	1446.8	1501.9
7.5°	3535.7	3331.9	2860.9	2343.6	1829.9	1319.1	969.3	739.4	592.8	549.2	572.4
10°	3573.4	3289.7	2616.4	1853.1	1150.7	642.1	418.0	333.8	302.6	296.0	299.6
12.5°	3604.6	3233.1	2318.2	1317.7	615.3	343.9	273.5	259.7	255.4	255.4	256.9
15°	3623.5	3147.5	1964.9	838.0	354.0	259.7	238.8	234.4	234.4	235.1	236.5
17.5°	3621.3	3038.7	1578.1	507.2	264.8	230.0	217.7	214.0	213.3	214.7	215.5
20°	3594.4	2896.5	1189.9	334.5	230.8	209.7	197.3	190.8	190.1	191.6	193.0
22.5°	3543.7	2720.8	851.1	257.6	208.3	190.1	174.8	169.1	169.1	170.5	172.0
25°	3482.0	2506.1	581.9	218.4	187.9	169.1	154.6	149.5	150.9	154.6	155.3
27.5°	3405.1	2264.5	395.5	187.2	163.3	148.0	137.2	133.5	137.2	142.2	143.6
30°	3339.0	2012.8	282.2	161.8	138.6	127.7	121.2	121.2	126.2	135.6	137.9
32.5°	3288.3	1768.9	217.7	142.9	120.4	111.0	107.4	111.0	119.0	128.4	130.6
35°	3281.7	1568.0	184.3	127.7	107.4	98.0	96.5	103.0	111.0	118.3	119.7
37.5°	3331.9	1382.2	166.1	115.4	95.7	87.1	85.6	93.6	101.6	110.3	112.4
40°	3426.9	1236.3	153.1	103.7	86.3	76.9	74.0	79.8	90.7	102.3	105.2
42.5°	3550.2	1115.9	138.6	92.2	76.9	63.8	60.3	66.8	78.4	90.7	94.3
45°	3667.8	1012.2	122.7	79.1	64.5	49.3	47.9	56.6	62.4	74.8	77.6
47.5°	3732.3	920.8	108.8	64.5	50.0	39.9	39.9	42.0	47.9	62.4	65.3
50°	3710.5	847.4	94.3	47.9	34.8	30.5	30.5	29.8	38.5	50.0	52.3
52.5°	3667.0	805.4	81.2	37.0	23.9	21.8	19.6	21.8	26.8	31.9	32.6
55°	3660.5	798.1	68.2	29.8	16.7	14.5	10.8	10.8	10.8	10.1	8.7
57.5°	3711.3	809.8	57.3	23.9	12.4	9.4	5.8	0.0	0.0	0.0	0.0
60°	3763.5	822.0	49.3	16.7	8.7	5.1	0.7	0.0	0.0	0.0	0.0
62.5°	3676.5	794.5	41.3	10.1	6.5	2.1	0.0	0.0	0.0	0.0	0.0
65°	3229.5	676.3	32.6	7.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2297.1	452.8	21.8	4.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	1048.4	189.3	13.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	224.2	58.8	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	45.7	42.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.5	67.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.7	48.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)