

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: P193471

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193471  
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-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA 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: 12139 lumens  
Efficiency: N/A  
Efficacy: 73.1 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): 166  
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

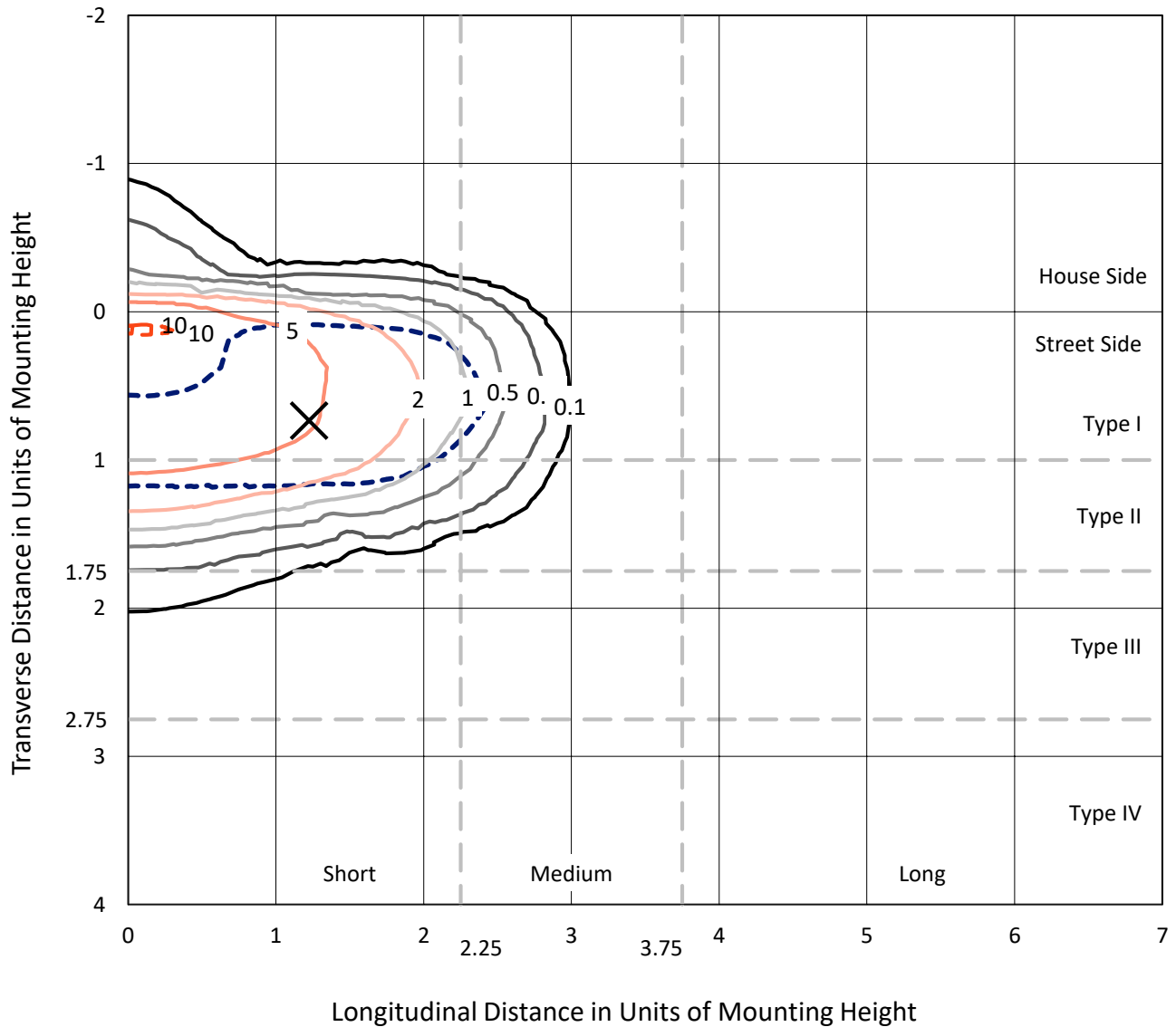


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

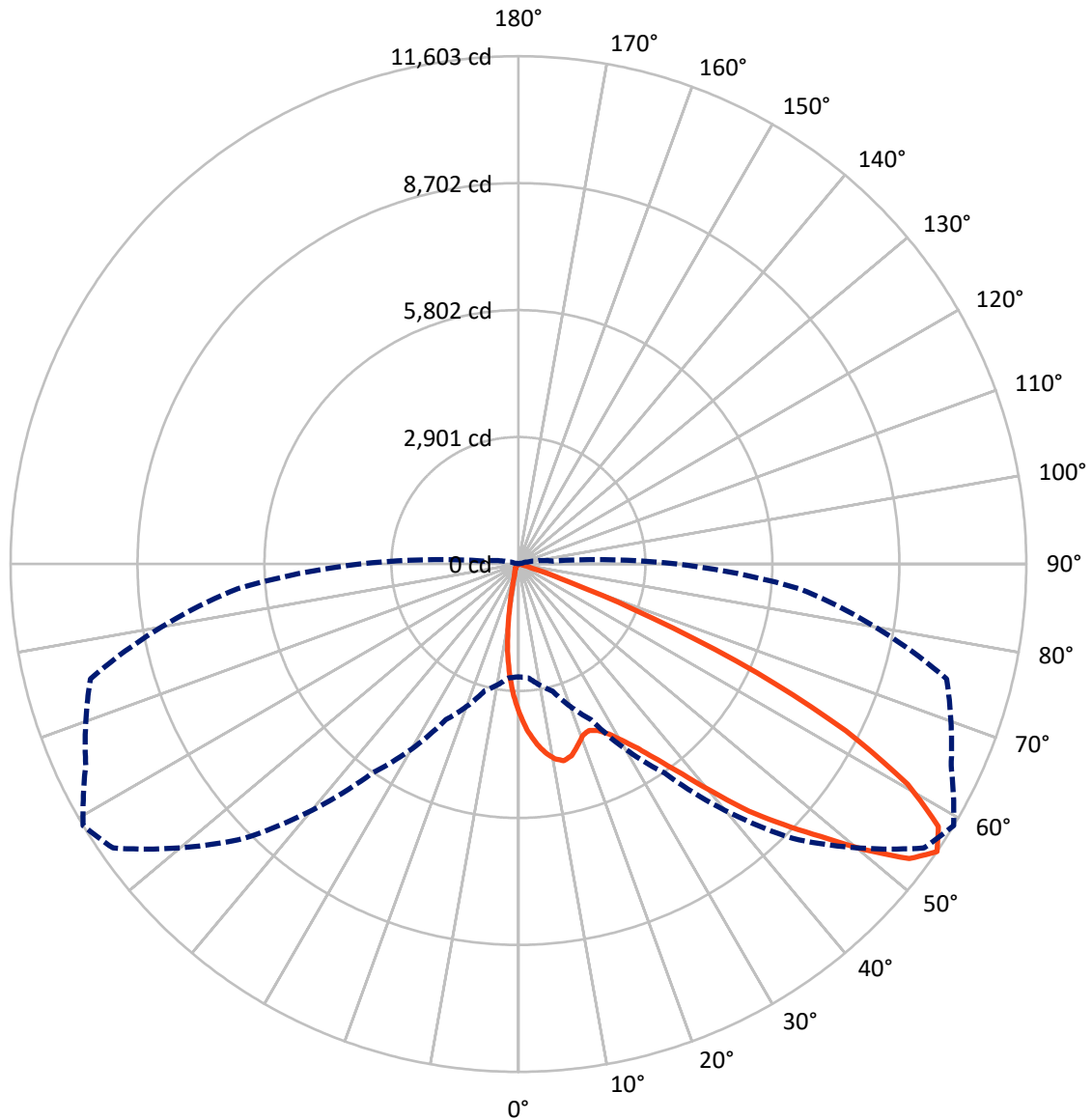


Based on 20 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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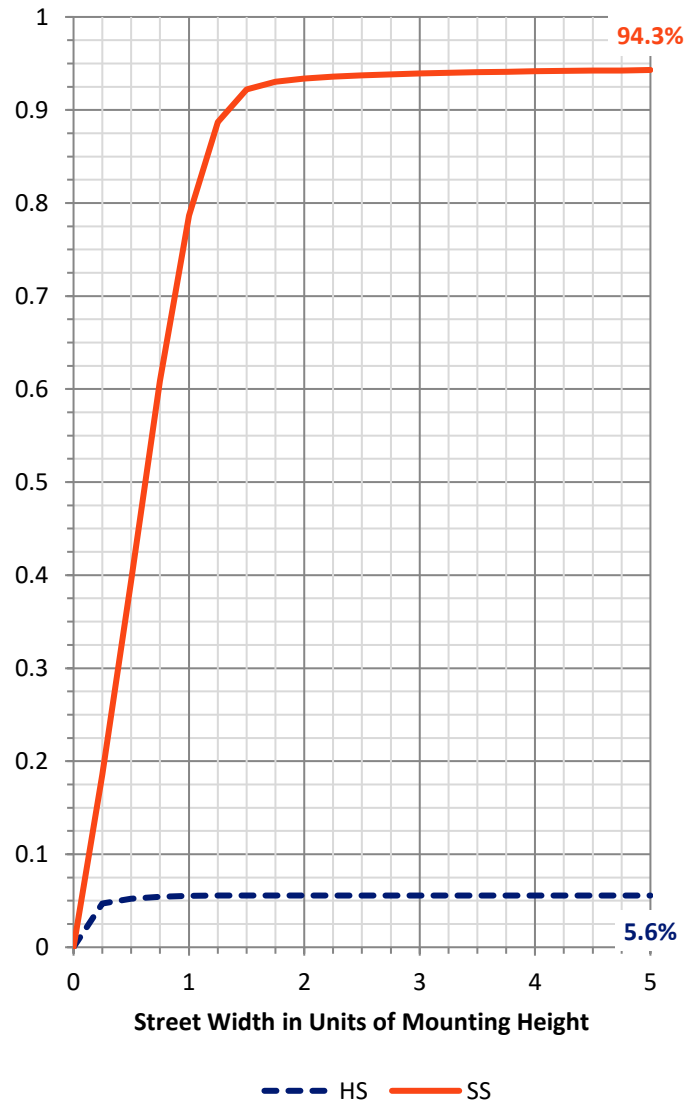
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	678.0	0.0	678.0
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	11461.0	0.0	11461.0
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	12139.0	0.0	12139.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.2	2.4
10°-20°	685.3	5.6
20°-30°	1166.1	9.6
30°-40°	2005.4	16.5
40°-50°	3096.1	25.5
50°-60°	3112.6	25.6
60°-70°	1596.2	13.1
70°-80°	173.0	1.4
80°-90°	18.1	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°	12139.0	100.0
0°-180°	12139.0	100.0

**Coefficient of Utilization**



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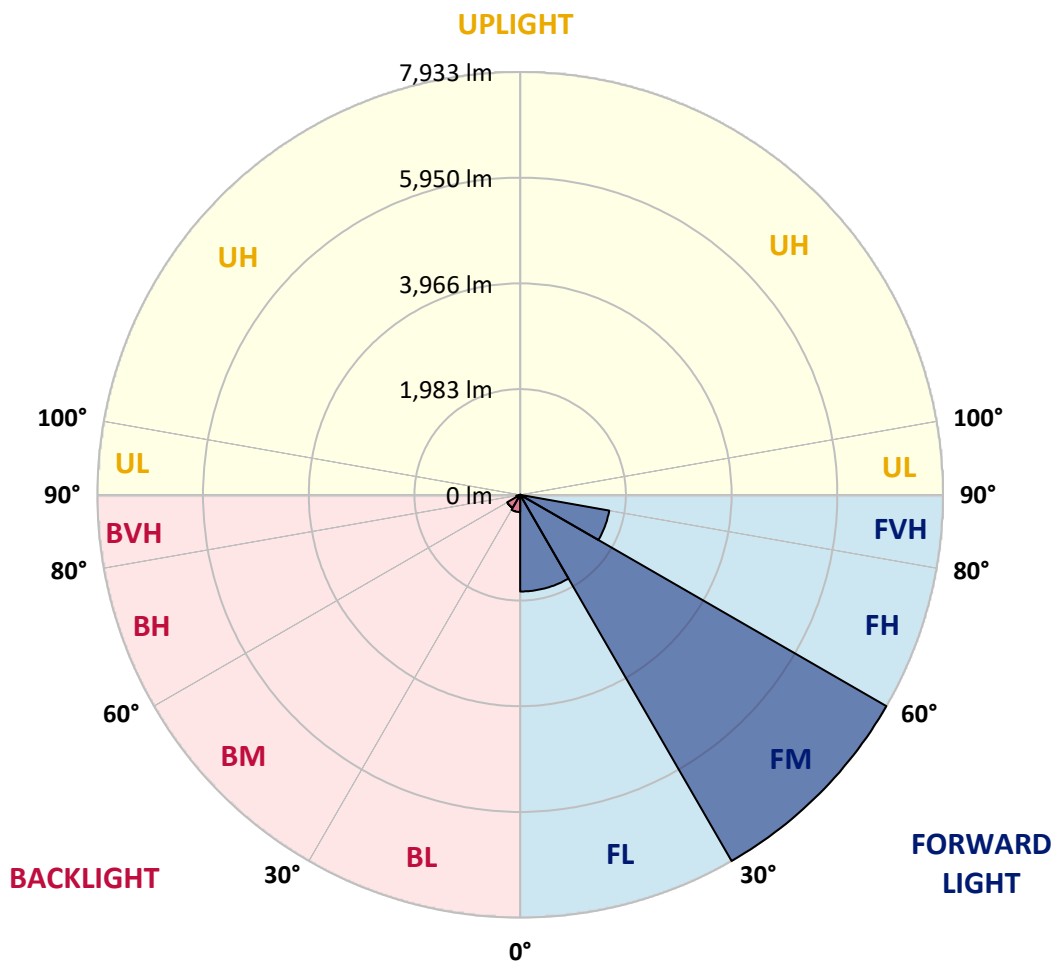
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1814.0	14.9			
FM	(30°-60°)	7932.8	65.3			
FH	(60°-80°)	1696.5	14.0			G1/1800
FVH	(80°-90°)	17.7	0.1			G1/100
BL	(0°-30°)	323.6	2.7	B1/500		
BM	(30°-60°)	281.4	2.3	B1/1000		
BH	(60°-80°)	72.6	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°	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1
2.5°	4043.2	4000.2	3987.3	3978.7	3939.3	3889.9	3822.6	3791.0	3726.6	3622.7	3495.2
5°	4413.6	4405.7	4377.0	4361.3	4319.0	4248.8	4141.3	4089.8	3987.3	3812.5	3584.0
7.5°	4251.7	4301.1	4340.5	4406.4	4489.5	4486.6	4396.4	4342.6	4228.0	3997.3	3682.9
10°	3626.3	3666.4	3730.9	3880.6	4185.7	4455.1	4561.1	4522.4	4430.7	4167.1	3778.1
12.5°	3503.8	3499.5	3510.9	3554.6	3714.4	4098.4	4533.2	4611.3	4592.6	4322.6	3868.4
15°	3569.0	3563.9	3562.5	3577.6	3616.2	3778.1	4323.3	4547.5	4691.5	4466.6	3945.0
17.5°	3751.6	3730.1	3718.7	3706.5	3695.0	3735.2	4071.1	4369.1	4706.6	4592.6	4008.8
20°	4064.7	4028.9	3986.6	3917.8	3853.4	3833.3	3965.1	4185.7	4652.8	4688.6	4050.4
22.5°	4458.0	4412.1	4339.1	4213.7	4082.6	4006.7	4017.4	4127.7	4572.6	4793.2	4069.7
25°	4900.0	4841.2	4743.8	4569.7	4377.0	4242.3	4172.1	4210.8	4536.1	4915.7	4091.9
27.5°	5373.5	5308.3	5180.8	4943.7	4725.2	4543.2	4399.9	4394.9	4598.4	5076.2	4127.7
30°	5842.7	5832.7	5666.5	5415.8	5126.3	4905.0	4698.7	4672.2	4772.5	5298.3	4198.6
32.5°	6468.8	6393.6	6190.2	5932.3	5598.4	5332.7	5088.4	5026.8	5039.7	5556.9	4308.2
35°	7258.3	7175.9	6889.3	6533.3	6160.1	5846.3	5576.2	5492.4	5460.9	5980.3	4493.1
37.5°	7768.3	7766.9	7587.1	7224.6	6824.1	6478.1	6184.4	6086.3	6022.5	6491.7	4779.6
40°	7781.9	7815.6	7839.2	7835.7	7550.5	7231.8	6971.0	6849.9	6701.6	7175.2	5150.0
42.5°	7364.3	7451.0	7659.4	8013.3	8182.4	8055.6	7835.7	7716.7	7496.1	7906.6	5601.3
45°	6799.8	6860.0	7224.6	7876.5	8524.8	8872.2	8704.6	8491.8	8201.0	8669.5	6006.0
47.5°	6546.9	6557.7	6793.3	7509.0	8550.6	9541.3	9643.1	9297.0	8841.4	9284.2	6322.7
50°	5791.1	5810.5	6135.7	6872.1	8248.3	9857.3	10585.8	10257.7	9539.9	9757.7	6438.0
52.5°	4364.8	4392.1	4804.7	5825.5	7417.3	9722.6	11260.6	11181.1	10305.0	9989.1	6444.5
55°	2575.3	2611.2	3005.2	3921.4	5834.1	8865.8	11310.8	11603.0	10908.9	10125.9	6434.4
57.5°	1202.8	1227.9	1453.5	2020.2	3628.4	7006.8	10555.7	11313.6	11242.0	10198.2	6505.4
60°	639.0	646.2	700.6	874.7	1639.8	4442.9	9082.1	10216.2	10938.3	10298.5	6592.0
62.5°	488.6	490.7	487.8	508.6	689.1	1972.2	6865.0	8398.7	9715.4	10223.3	6496.0
65°	423.4	427.0	406.9	401.9	442.0	703.5	4078.3	5986.7	7634.4	9208.2	5842.0
67.5°	379.7	381.1	356.8	336.0	343.1	380.4	1609.0	3277.4	5053.3	6749.6	4234.5
70°	349.6	348.2	321.7	288.7	279.4	260.0	511.5	1201.4	2414.9	3422.8	1969.3
72.5°	309.5	310.2	297.3	254.3	232.1	182.0	237.1	350.3	720.7	932.7	461.3
75°	274.4	270.8	255.0	227.8	191.3	119.6	117.5	156.2	222.1	220.6	99.6
77.5°	198.4	194.9	199.9	187.0	146.9	77.4	58.7	75.2	90.3	87.4	27.9
80°	145.4	143.3	128.9	155.5	129.7	53.0	36.5	40.1	46.6	39.4	8.6
82.5°	99.6	98.9	91.0	86.0	73.8	32.2	22.9	25.1	30.1	22.2	4.3
85°	15.8	17.9	65.9	52.3	43.7	14.3	15.8	17.2	20.1	12.2	1.4
87.5°	0.0	0.0	30.8	27.2	8.6	5.7	9.3	10.0	10.0	6.4	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°	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1
2.5°	3430.0	3358.3	3225.8	3089.0	2962.2	2811.0	2707.2	2629.1	2538.8	2514.5	2567.5
5°	3453.6	3318.2	3033.1	2722.9	2431.4	2108.3	1861.1	1665.6	1488.6	1428.4	1482.9
7.5°	3490.9	3289.6	2824.6	2313.9	1806.7	1302.4	957.1	730.0	585.3	542.3	565.2
10°	3528.1	3248.0	2583.2	1829.6	1136.2	634.0	412.6	329.5	298.7	292.3	295.9
12.5°	3558.9	3192.1	2288.8	1300.9	607.5	339.6	270.1	256.5	252.2	252.2	253.6
15°	3577.6	3107.6	1939.9	827.4	349.6	256.5	235.7	231.4	231.4	232.1	233.5
17.5°	3575.4	3000.2	1558.1	500.7	261.5	227.1	214.9	211.3	210.6	212.0	212.8
20°	3548.9	2859.7	1174.8	330.2	227.8	207.0	194.9	188.4	187.7	189.1	190.6
22.5°	3498.8	2686.4	840.3	254.3	205.6	187.7	172.6	166.9	166.9	168.3	169.8
25°	3437.9	2474.3	574.5	215.6	185.5	166.9	152.6	147.6	149.0	152.6	153.3
27.5°	3361.9	2235.8	390.4	184.8	161.2	146.1	135.4	131.8	135.4	140.4	141.8
30°	3296.7	1987.2	278.7	159.8	136.8	126.1	119.6	119.6	124.6	134.0	136.1
32.5°	3246.6	1746.5	214.9	141.1	118.9	109.6	106.0	109.6	117.5	126.8	128.9
35°	3240.1	1548.1	182.0	126.1	106.0	96.7	95.3	101.7	109.6	116.8	118.2
37.5°	3289.6	1364.7	164.0	113.9	94.6	86.0	84.5	92.4	100.3	108.9	111.0
40°	3383.4	1220.7	151.2	102.4	85.2	75.9	73.1	78.8	89.5	101.0	103.9
42.5°	3505.2	1101.8	136.8	91.0	75.9	63.0	59.5	65.9	77.4	89.5	93.1
45°	3621.3	999.3	121.1	78.1	63.8	48.7	47.3	55.9	61.6	73.8	76.7
47.5°	3685.0	909.1	107.5	63.8	49.4	39.4	39.4	41.5	47.3	61.6	64.5
50°	3663.5	836.7	93.1	47.3	34.4	30.1	30.1	29.4	38.0	49.4	51.6
52.5°	3620.5	795.2	80.2	36.5	23.6	21.5	19.3	21.5	26.5	31.5	32.2
55°	3614.1	788.0	67.3	29.4	16.5	14.3	10.7	10.7	10.7	10.0	8.6
57.5°	3664.2	799.5	56.6	23.6	12.2	9.3	5.7	0.0	0.0	0.0	0.0
60°	3715.8	811.6	48.7	16.5	8.6	5.0	0.7	0.0	0.0	0.0	0.0
62.5°	3629.8	784.4	40.8	10.0	6.4	2.1	0.0	0.0	0.0	0.0	0.0
65°	3188.6	667.7	32.2	7.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2268.0	447.0	21.5	4.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	1035.2	187.0	13.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	221.4	58.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	45.1	42.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.3	66.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.6	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	7.2	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)