

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: P651939

Luminaire Tested: **GALN-SA6A-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA 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: 18685.4 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

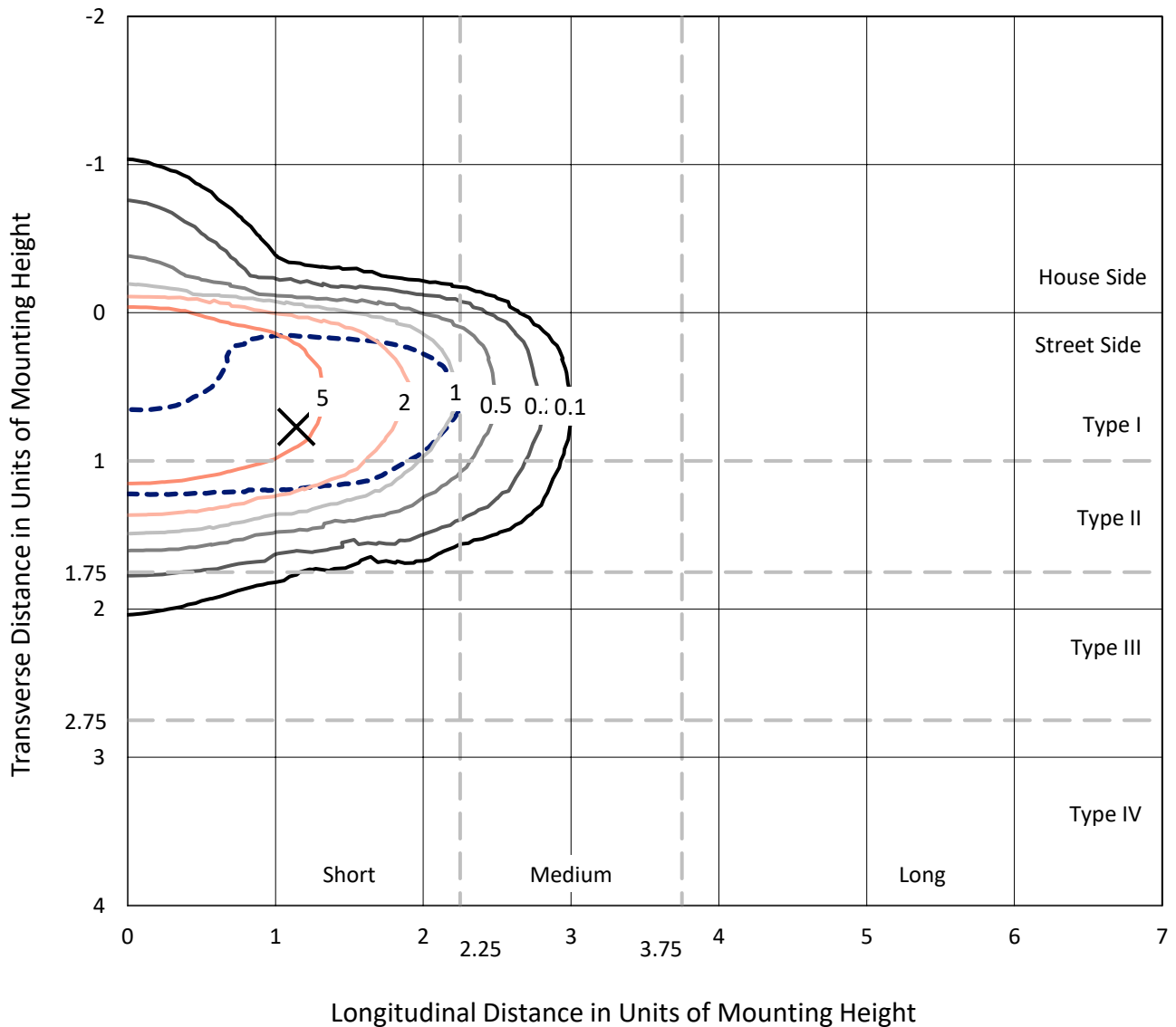
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

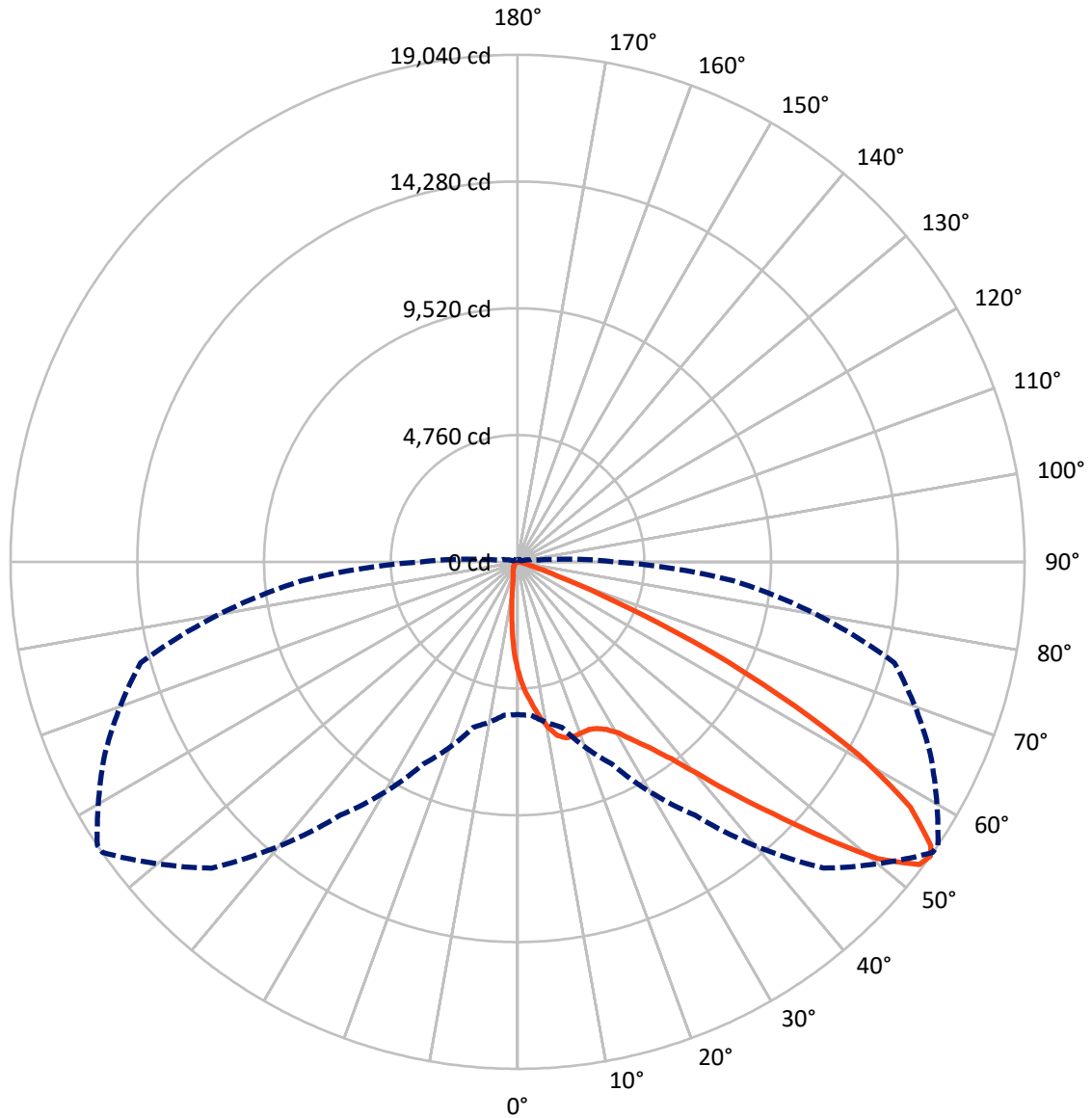
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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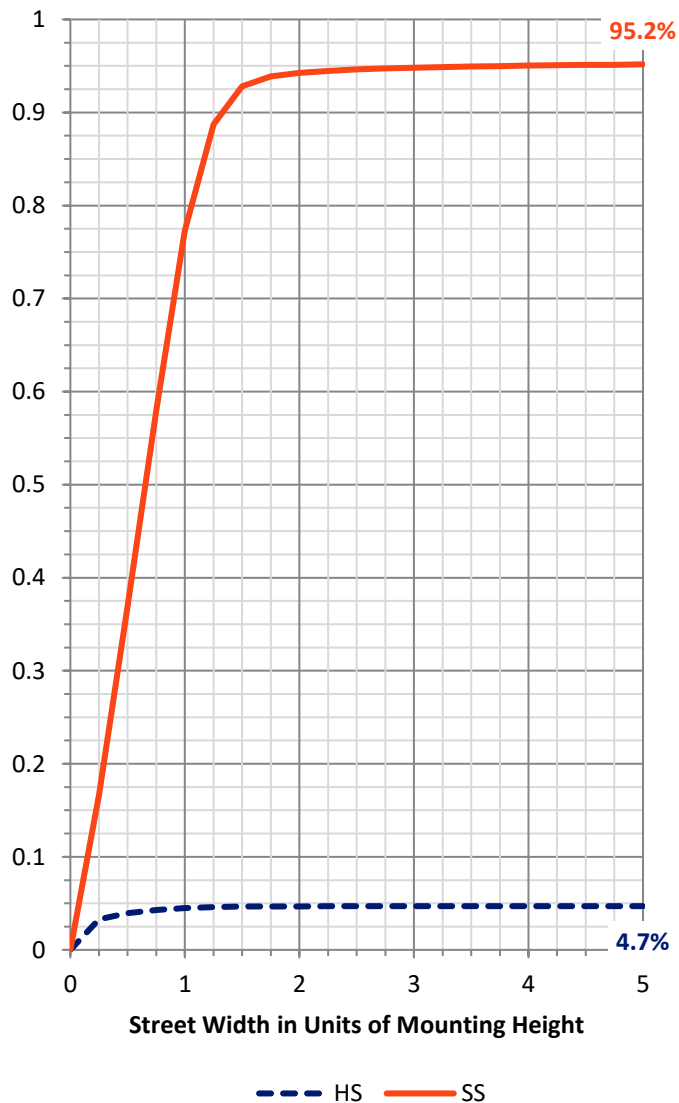
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	883.6	0.0	883.6
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	17801.8	0.0	17801.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	18685.4	0.0	18685.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.8	2.0
10°-20°	991.7	5.3
20°-30°	1717.5	9.2
30°-40°	2964.7	15.9
40°-50°	5046.0	27.0
50°-60°	4993.7	26.7
60°-70°	2279.2	12.2
70°-80°	292.7	1.6
80°-90°	33.0	0.2
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°	18685.4	100.0
0°-180°	18685.4	100.0

**Coefficient of Utilization**



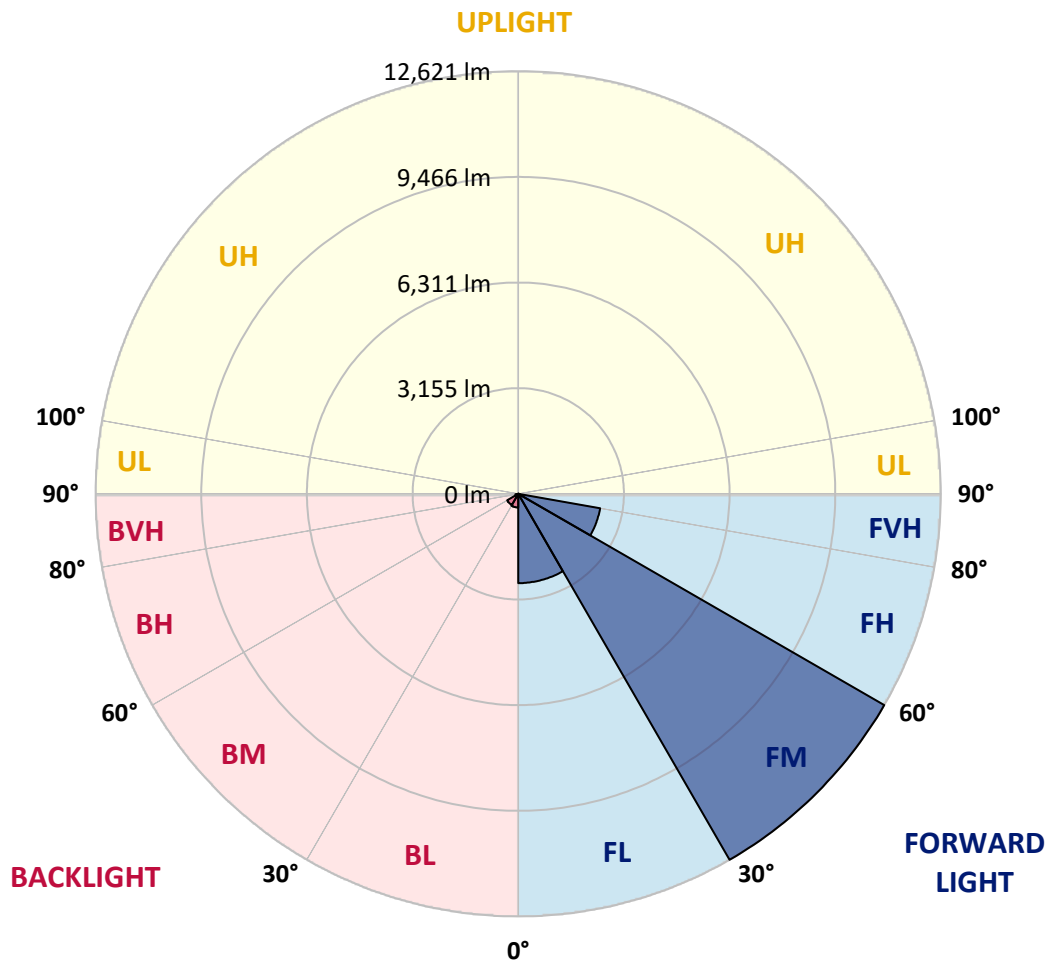
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2667.4	14.3			
FM (30°-60°)	12621.5	67.5			
FH (60°-80°)	2483.4	13.3			G2/5000
FVH (80°-90°)	29.5	0.2			G1/100
BL (0°-30°)	408.6	2.2	B1/500		
BM (30°-60°)	382.9	2.0	B1/1000		
BH (60°-80°)	88.5	0.5	B0/110		G0/110
BVH (80°-90°)	3.5	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3
2.5°	5275.8	5239.3	5188.9	5149.8	5057.8	4925.4	4785.5	4785.5	4650.6	4462.8	4271.1
5°	6085.2	6061.3	6012.1	5911.2	5807.9	5622.5	5341.4	5292.2	5051.5	4711.1	4353.0
7.5°	6414.2	6425.6	6428.1	6401.6	6352.5	6169.7	5891.0	5857.0	5472.6	5016.1	4460.2
10°	6099.1	6154.5	6208.8	6318.4	6473.5	6517.6	6360.0	6324.7	5946.5	5325.0	4576.2
12.5°	5630.1	5660.4	5690.6	5863.3	6174.7	6531.5	6696.6	6695.4	6375.1	5632.6	4723.6
15°	5412.0	5438.5	5441.0	5517.9	5787.7	6307.1	6840.4	6859.2	6793.7	6012.1	4882.5
17.5°	5457.4	5478.8	5461.2	5480.0	5621.2	6060.0	6824.0	6886.9	7132.8	6376.4	5026.2
20°	5753.6	5795.2	5727.1	5674.2	5717.1	5994.4	6768.5	6856.8	7372.3	6732.0	5157.3
22.5°	6285.6	6308.3	6222.6	6077.7	6002.0	6131.8	6753.3	6840.4	7576.6	7023.1	5233.0
25°	6876.9	6869.3	6774.8	6612.1	6453.3	6409.2	6853.0	6931.1	7745.4	7285.3	5255.7
27.5°	7468.2	7490.8	7332.0	7130.3	6939.9	6825.2	7076.1	7134.0	7935.8	7584.1	5283.4
30°	8155.2	8118.6	7962.3	7731.6	7513.5	7353.5	7435.4	7451.8	8198.1	7980.0	5356.5
32.5°	9049.0	8948.2	8772.9	8369.5	8213.2	7942.2	7962.3	7982.5	8517.0	8372.0	5444.8
35°	10261.7	10256.7	9913.8	9370.5	8989.8	8653.1	8564.9	8581.3	8999.8	8954.5	5640.2
37.5°	11721.6	11741.8	11351.0	10803.8	10102.9	9568.4	9386.8	9389.3	9733.6	9758.7	5937.7
40°	12910.4	12963.3	12730.1	12360.8	11668.6	10832.8	10527.7	10500.1	10764.7	10733.3	6362.5
42.5°	13422.2	13471.4	13558.3	13686.9	13306.2	12616.7	11896.8	11934.6	12015.4	11794.7	6839.1
45°	13171.3	13249.5	13591.1	14385.4	14743.4	14511.5	13653.0	13520.6	13178.9	12948.2	7318.1
47.5°	12126.3	12316.6	12887.7	14210.1	15463.2	16247.4	15634.7	15459.4	14343.8	13790.3	7623.2
50°	10408.0	10419.3	11214.8	12905.3	15090.1	17342.8	17658.1	17526.9	15429.2	14263.1	7777.0
52.5°	7545.0	7793.4	8522.0	10479.9	13473.9	17176.4	18947.6	18893.5	16548.6	14505.1	7998.8
54°	5736.0	5783.9	6431.9	8374.5	11617.0	16262.5	19027.1	19039.7	17104.6	14651.4	8129.9
55°	4702.3	4587.6	5268.3	7134.0	10350.0	15454.4	18767.4	18827.9	17354.2	14727.0	8227.1
57.5°	2228.8	2230.1	2750.7	3763.1	6482.3	12000.2	17180.2	17394.6	17382.0	14856.9	8525.8
60°	1128.3	1135.9	1250.6	1737.2	3202.1	7977.5	14205.1	14715.6	16044.3	14875.8	8624.1
62.5°	789.2	780.4	761.4	835.8	1347.6	4054.3	10575.7	11019.4	13631.5	14156.0	8311.5
65°	675.7	656.8	603.8	592.5	680.8	1614.9	6587.0	7310.6	10408.0	12257.4	7421.5
67.5°	577.3	569.8	521.9	492.9	481.6	703.4	3398.7	3779.5	7113.9	8810.7	5621.2
70°	490.4	486.6	457.6	421.1	389.6	421.1	1260.7	1562.0	3964.7	4743.8	2652.4
72.5°	398.4	402.2	407.2	360.5	327.7	298.8	538.3	626.5	1659.0	1695.6	927.9
75°	349.2	345.4	345.4	313.9	273.6	221.9	296.3	318.9	508.0	471.5	215.5
77.5°	245.8	237.0	277.4	258.4	228.2	157.6	169.0	179.0	210.5	180.3	100.8
80°	170.2	170.2	177.8	231.9	205.5	114.7	103.4	110.9	124.8	107.1	58.0
82.5°	95.8	98.3	116.0	123.5	119.8	76.9	68.0	69.3	83.2	73.1	36.6
85°	11.4	18.9	66.8	65.5	49.2	34.1	37.8	39.1	51.7	45.4	21.4
87.5°	1.3	2.5	13.9	17.7	12.6	13.9	13.9	13.9	17.7	20.2	15.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3
2.5°	4167.7	4072.0	3843.7	3579.0	3410.1	3135.2	2903.3	2735.6	2694.1	2613.3	2637.3
5°	4162.7	3963.5	3498.3	3006.7	2482.2	2091.4	1800.2	1570.8	1469.9	1403.1	1356.4
7.5°	4165.2	3853.8	3107.5	2324.7	1698.1	1314.9	1045.1	905.2	811.9	772.8	777.8
10°	4172.8	3730.3	2653.7	1722.0	1145.9	849.7	684.6	617.7	586.2	581.1	579.9
12.5°	4190.5	3595.4	2220.0	1278.3	801.8	617.7	554.7	532.0	521.9	521.9	518.1
15°	4209.4	3446.7	1859.5	950.5	617.7	530.8	501.7	490.4	484.1	484.1	482.8
17.5°	4209.4	3275.2	1522.9	737.5	532.0	487.9	465.2	450.0	445.0	445.0	443.7
20°	4182.9	3076.0	1224.1	593.7	482.8	447.5	424.9	408.5	402.2	399.6	398.4
22.5°	4090.8	2810.0	974.5	510.6	442.5	412.3	383.2	364.3	359.3	356.8	358.0
25°	3927.0	2510.0	771.5	448.8	406.0	369.4	344.1	330.3	325.2	325.2	326.5
27.5°	3758.0	2196.1	611.4	402.2	361.8	329.0	308.9	300.1	298.8	302.6	303.9
30°	3601.7	1880.9	495.4	364.3	322.7	295.0	281.1	278.6	278.6	279.9	281.1
32.5°	3427.7	1604.8	414.8	331.5	291.2	267.3	259.7	259.7	262.2	262.2	264.7
35°	3318.1	1367.8	364.3	300.1	267.3	247.1	242.0	243.3	247.1	252.1	254.7
37.5°	3258.8	1178.7	331.5	274.8	244.6	230.7	225.6	228.2	237.0	245.8	247.1
40°	3263.8	1036.3	305.1	253.4	226.9	211.8	208.0	215.5	224.4	233.2	234.5
42.5°	3319.3	930.4	279.9	228.2	211.8	190.3	189.1	196.6	200.4	209.2	210.5
45°	3384.9	853.4	253.4	201.7	184.1	165.2	166.4	172.7	177.8	191.6	194.1
47.5°	3405.0	800.5	223.1	171.5	151.3	145.0	146.2	150.0	160.1	172.7	174.0
50°	3427.7	767.7	194.1	145.0	128.6	127.3	128.6	131.1	137.4	142.5	141.2
52.5°	3524.8	766.5	170.2	126.1	109.7	112.2	113.5	112.2	107.1	99.6	97.1
54°	3615.5	770.3	158.9	117.2	100.8	104.6	103.4	97.1	84.4	76.9	73.1
55°	3688.7	774.1	152.6	110.9	95.8	97.1	98.3	85.7	69.3	61.8	59.3
57.5°	3832.4	765.2	137.4	97.1	84.4	79.4	78.1	56.8	37.8	32.8	30.3
60°	3760.5	690.9	124.8	83.2	71.8	64.3	53.0	31.5	18.9	13.9	13.9
62.5°	3478.1	586.2	110.9	68.0	59.3	49.2	27.8	17.7	8.8	5.0	3.8
65°	3111.3	492.9	99.6	54.2	46.7	31.5	15.1	11.4	3.8	0.0	0.0
67.5°	2313.3	365.6	84.4	42.9	35.3	20.2	10.1	6.3	1.3	0.0	0.0
70°	1071.5	223.1	71.8	32.8	25.2	15.1	7.6	3.8	0.0	0.0	0.0
72.5°	307.6	139.9	59.3	24.0	17.7	12.6	6.3	2.5	1.3	0.0	0.0
75°	107.1	112.2	44.2	17.7	13.9	8.8	5.0	2.5	1.3	0.0	0.0
77.5°	64.3	90.7	27.8	15.1	11.4	7.6	5.0	2.5	1.3	1.3	0.0
80°	36.6	60.6	17.7	12.6	10.1	6.3	3.8	2.5	1.3	1.3	0.0
82.5°	20.2	29.0	13.9	11.4	8.8	6.3	3.8	2.5	1.3	1.3	1.3
85°	16.4	15.1	11.4	10.1	7.6	5.0	3.8	1.3	0.0	0.0	0.0
87.5°	12.6	10.1	10.1	10.1	7.6	5.0	3.8	1.3	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)