

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: P531935

Luminaire Tested: **GALN-SA7B-730-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-730-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21554 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

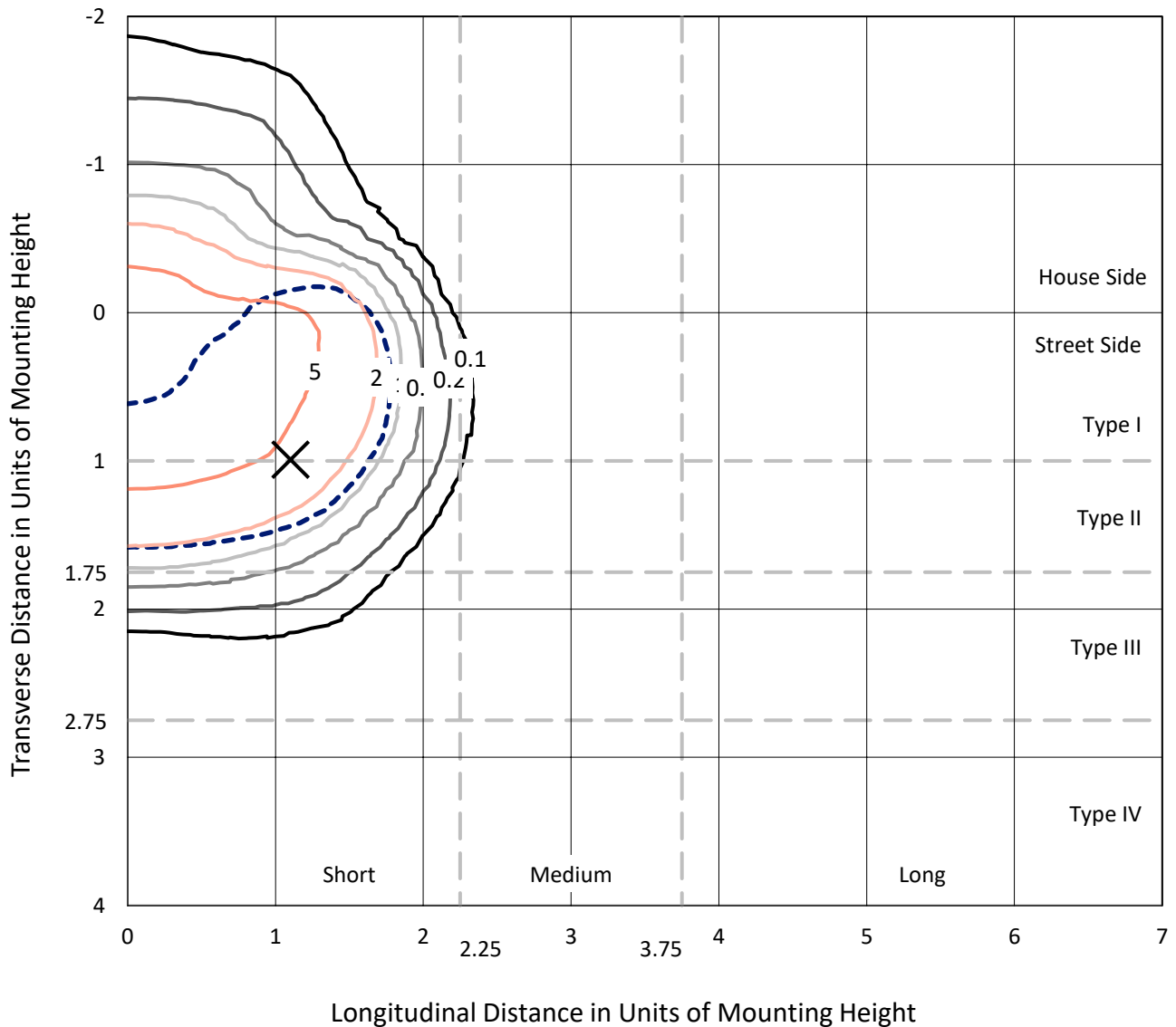
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

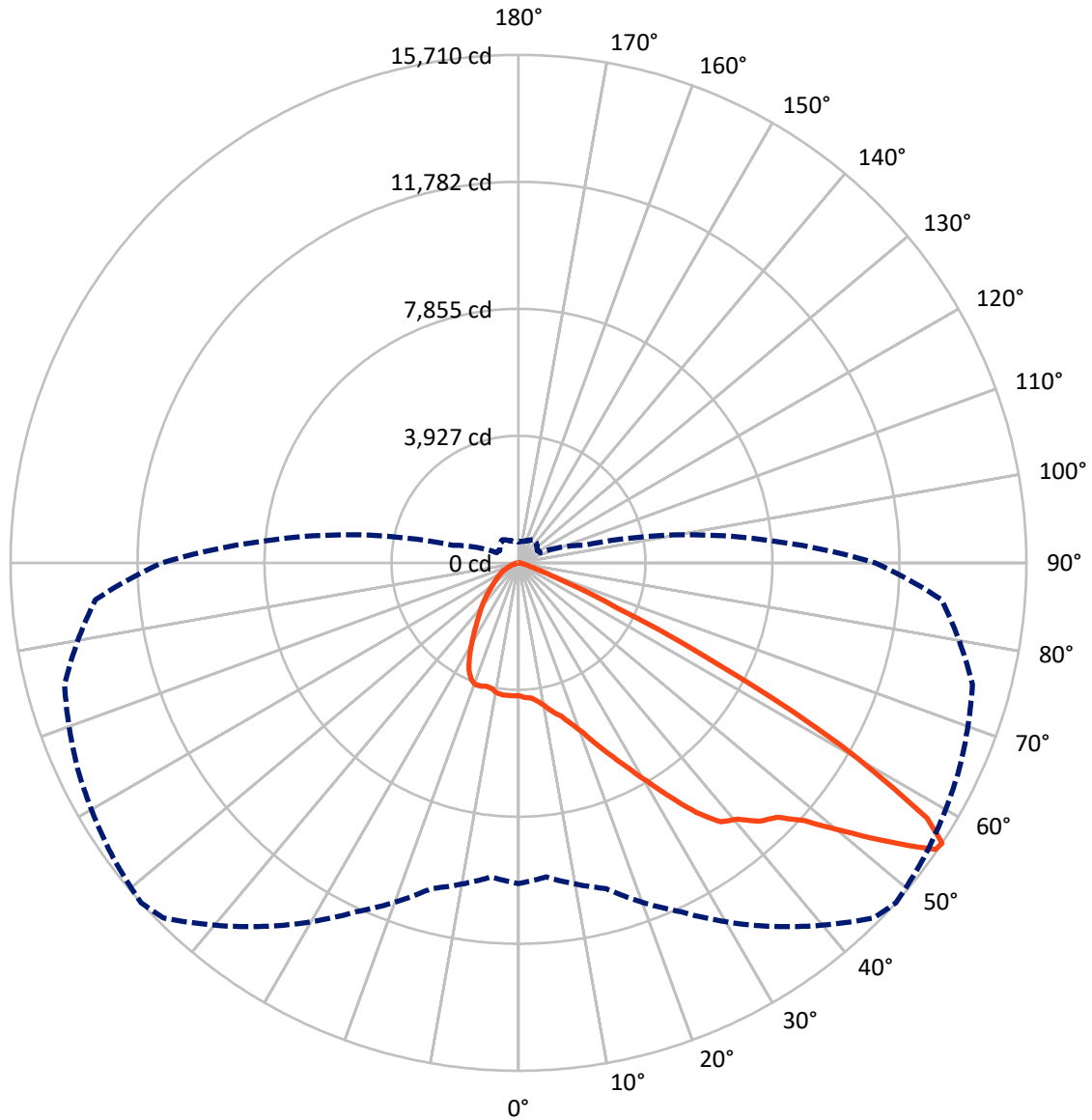
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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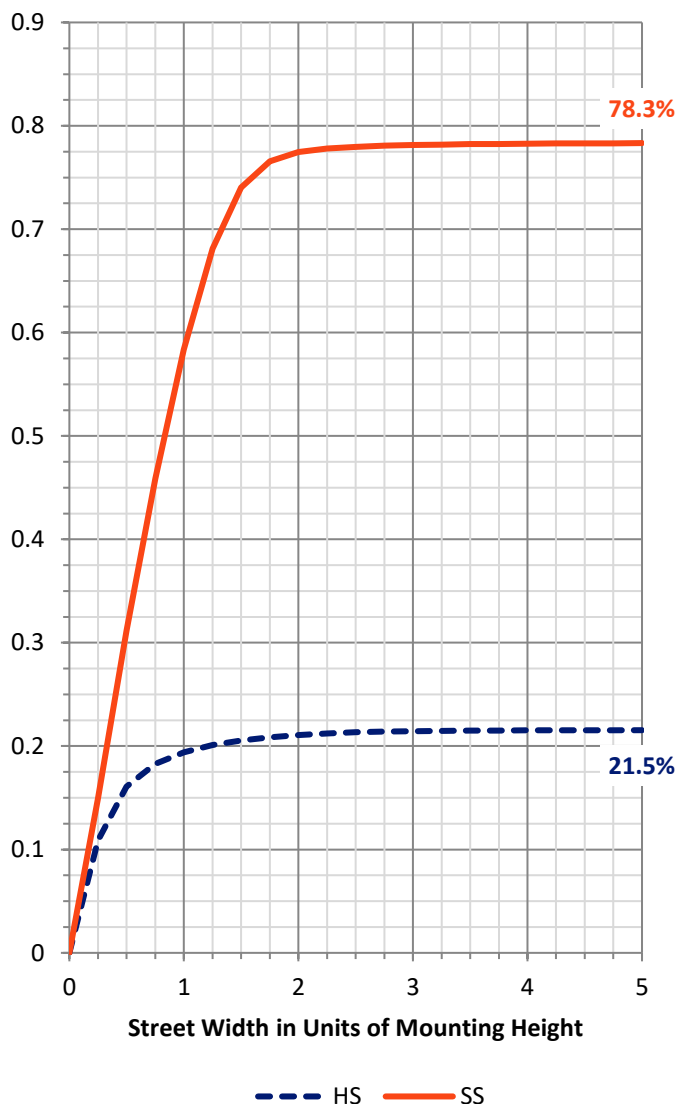
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4687.6	0.0	4687.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	16866.4	0.0	16866.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	21554.0	0.0	21554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.0	1.9
10°-20°	1281.6	5.9
20°-30°	2324.6	10.8
30°-40°	3651.4	16.9
40°-50°	5326.8	24.7
50°-60°	6417.7	29.8
60°-70°	1879.1	8.7
70°-80°	238.4	1.1
80°-90°	33.4	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°	21554.0	100.0
0°-180°	21554.0	100.0

**Coefficient of Utilization**



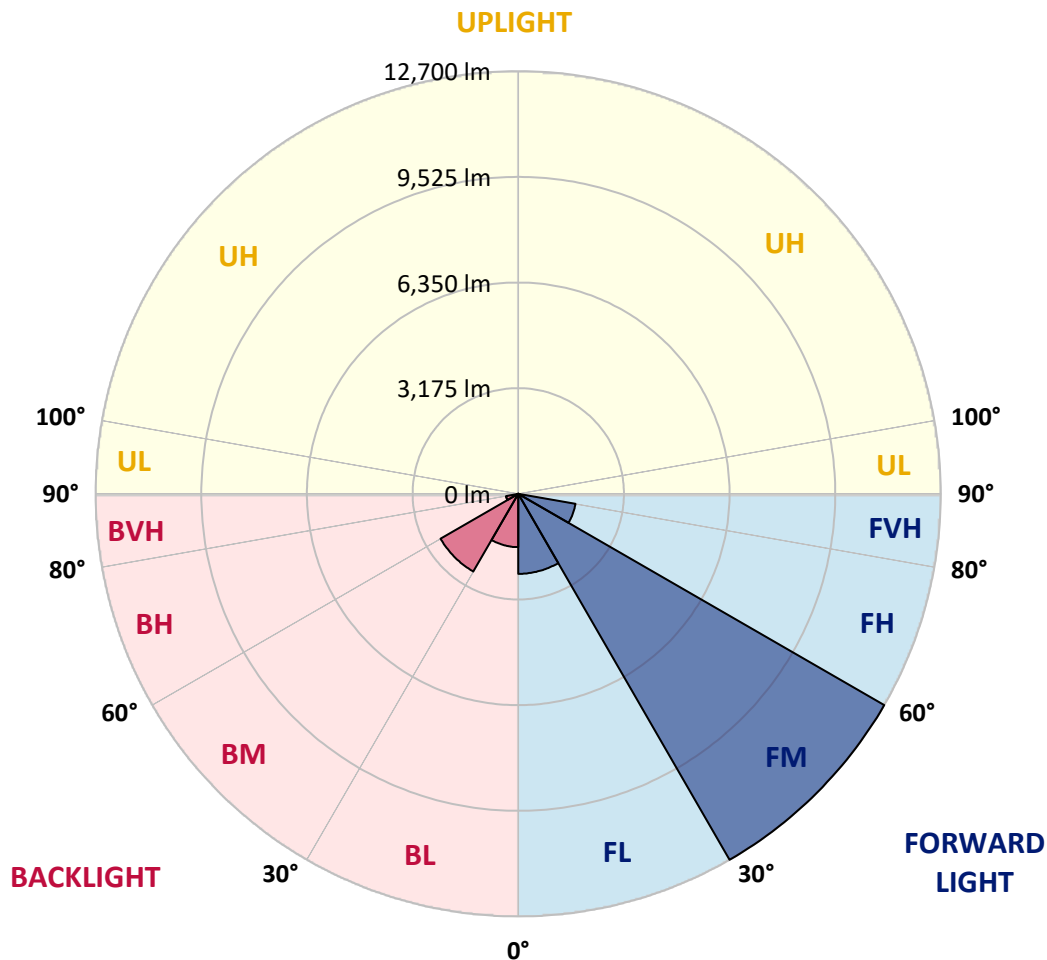
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2405.0	11.2			
FM (30°-60°)	12699.7	58.9			
FH (60°-80°)	1745.0	8.1			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1602.2	7.4	B3/2500		
BM (30°-60°)	2696.3	12.5	B3/5000		
BH (60°-80°)	372.5	1.7	B1/500		G1/500
BVH (80°-90°)	16.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8
2.5°	4191.4	4171.8	4171.8	4140.4	4175.7	4160.0	4171.8	4132.5	4171.8	4112.9	4160.0
5°	4211.0	4214.9	4199.2	4218.9	4218.9	4242.4	4203.2	4238.5	4258.1	4214.9	4195.3
7.5°	4313.0	4320.9	4317.0	4301.3	4332.7	4328.7	4324.8	4297.4	4305.2	4289.5	4266.0
10°	4513.2	4509.3	4528.9	4489.7	4466.1	4493.6	4501.4	4458.3	4426.9	4415.1	4340.5
12.5°	4803.6	4756.5	4729.0	4689.8	4701.6	4662.3	4733.0	4658.4	4642.7	4572.1	4497.5
15°	5039.1	5031.2	5035.2	4972.4	4901.7	4917.4	4917.4	4878.2	4854.6	4768.3	4662.3
17.5°	5521.8	5357.0	5392.3	5313.8	5254.9	5251.0	5215.7	5223.5	5160.7	4980.2	4819.3
20°	5898.6	5827.9	5773.0	5639.5	5549.3	5576.7	5561.0	5521.8	5502.2	5266.7	5039.1
22.5°	6236.1	6259.6	6169.3	6134.0	6008.4	6020.2	6051.6	6016.3	5867.2	5623.8	5286.3
25°	6710.9	6683.5	6561.8	6518.6	6400.9	6444.1	6565.7	6538.3	6444.1	6004.5	5478.6
27.5°	7272.1	7178.0	7201.5	7005.3	6891.5	7013.1	7158.3	7295.7	7028.8	6451.9	5706.3
30°	7668.5	7570.4	7562.6	7554.7	7527.2	7668.5	7837.3	7962.9	7747.0	6899.3	6083.0
32.5°	7864.7	7888.3	7955.0	7931.5	8170.9	8461.3	8637.9	8818.4	8547.6	7629.3	6581.4
35°	8386.7	8237.6	8386.7	8402.4	8649.6	9265.8	9489.5	9921.2	9854.5	8661.4	7189.7
37.5°	8692.8	8681.0	8700.7	8849.8	9089.2	9850.5	10168.4	10502.0	10376.4	9281.5	7947.2
40°	9199.1	9230.5	9226.6	9340.4	9603.3	10290.1	10419.6	10690.4	10702.2	10141.0	9061.7
42.5°	10011.5	9885.9	9803.5	9921.2	10290.1	10670.8	10929.8	10874.8	11263.4	11184.9	10494.2
45°	10741.4	10816.0	10694.3	10890.5	11024.0	11228.1	11220.2	11337.9	11832.4	12205.3	11573.4
47.5°	11424.3	11471.4	11530.2	11663.7	11954.1	11985.5	11918.8	11867.8	12550.6	12935.2	12409.3
50°	11832.4	11875.6	12150.3	12389.7	12931.3	13001.9	13041.2	12911.7	13374.8	13417.9	13198.2
52.5°	11722.5	11769.6	12154.2	12943.1	13806.5	14454.0	14336.3	14116.5	14089.0	14257.8	13928.1
55°	10749.3	10706.1	11235.9	12464.3	14081.2	15635.3	15651.0	15419.4	14976.0	14862.2	13818.2
56°	9921.2	9752.4	10427.5	11910.9	13728.0	15533.3	15709.9	15462.6	15046.6	14536.4	13139.3
57.5°	8127.7	8288.6	8959.7	10188.1	12507.5	14799.4	14901.4	14842.5	14528.6	13673.0	11561.6
60°	4481.8	4764.4	5357.0	6860.1	8904.7	11357.6	11440.0	11918.8	11977.6	10470.6	7955.0
62.5°	1903.4	1872.0	2488.1	3594.9	5070.5	6856.1	7009.2	7499.8	7590.0	6035.9	3991.2
65°	773.1	816.3	1126.3	1809.2	2680.4	3123.9	3339.8	3500.7	3798.9	2492.1	1471.7
67.5°	510.2	506.3	663.2	1032.1	1444.2	1393.2	1393.2	1471.7	1361.8	1016.5	635.8
70°	365.0	376.8	474.9	714.3	898.7	667.2	639.7	612.2	694.6	671.1	514.1
72.5°	239.4	255.1	317.9	427.8	467.0	365.0	365.0	439.5	573.0	541.6	419.9
75°	157.0	160.9	196.2	247.2	231.5	188.4	208.0	294.3	416.0	400.3	298.3
77.5°	106.0	109.9	133.4	160.9	129.5	106.0	113.8	149.1	204.1	204.1	157.0
80°	39.2	43.2	54.9	51.0	58.9	74.6	82.4	102.0	121.7	121.7	106.0
82.5°	0.0	3.9	11.8	27.5	43.2	58.9	66.7	78.5	90.3	102.0	98.1
85°	0.0	3.9	11.8	19.6	31.4	35.3	39.2	27.5	23.5	23.5	19.6
87.5°	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.8	3.9	3.9
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°	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8
2.5°	4116.8	4112.9	4112.9	4101.1	4124.7	4112.9	4120.7	4116.8	4065.8	4105.0	4077.6
5°	4160.0	4187.5	4144.3	4136.4	4105.0	4116.8	4116.8	4077.6	4112.9	4109.0	4101.1
7.5°	4269.9	4222.8	4175.7	4128.6	4120.7	4109.0	4065.8	4050.1	4077.6	4046.2	4093.3
10°	4317.0	4324.8	4254.2	4191.4	4132.5	4050.1	3991.2	3955.9	3912.7	3959.8	3987.3
12.5°	4532.8	4454.3	4332.7	4234.6	4034.4	3952.0	3893.1	3877.4	3952.0	3967.7	3940.2
15°	4607.4	4595.6	4438.6	4218.9	4010.9	3912.7	3924.5	3893.1	3901.0	3861.7	3869.6
17.5°	4760.4	4627.0	4442.6	4167.8	4006.9	3983.4	3912.7	3787.2	3716.5	3685.1	3712.6
20°	4929.2	4799.7	4532.8	4187.5	4042.3	3979.5	3747.9	3594.9	3449.7	3371.2	3375.1
22.5°	5078.3	4917.4	4493.6	4195.3	4073.7	3814.6	3536.0	3233.8	3053.3	2931.6	2935.5
25°	5258.9	5031.2	4509.3	4211.0	3991.2	3551.7	3151.4	2857.1	2641.2	2558.8	2586.3
27.5°	5360.9	5101.9	4595.6	4246.3	3775.4	3178.9	2747.2	2472.4	2346.9	2307.6	2303.7
30°	5667.0	5258.9	4701.6	4175.7	3414.3	2778.6	2378.3	2209.5	2087.8	2052.5	2060.4
32.5°	6122.3	5545.3	4838.9	3991.2	3045.4	2421.4	2138.9	2013.3	1899.5	1832.8	1824.9
35°	6502.9	6035.9	4984.1	3704.7	2617.7	2146.7	1970.1	1813.1	1640.5	1565.9	1546.3
37.5°	7229.0	6589.3	4952.7	3273.1	2209.5	1942.6	1789.6	1597.3	1448.1	1346.1	1334.3
40°	8194.4	7236.8	4799.7	2747.2	1907.3	1762.1	1597.3	1412.8	1228.4	1142.0	1134.2
42.5°	9367.8	8029.6	4521.0	2213.4	1605.1	1581.6	1432.5	1220.5	1055.7	992.9	996.8
45°	10321.5	8708.5	4238.5	1777.8	1381.4	1405.0	1275.5	1075.3	961.5	910.5	910.5
47.5°	11169.2	9167.7	3932.4	1467.8	1173.4	1228.4	1114.6	996.8	898.7	859.5	851.6
50°	11985.5	9634.7	3626.3	1189.1	1000.8	1055.7	1043.9	949.7	871.2	824.1	828.1
52.5°	12495.7	9709.3	3237.7	973.3	875.2	938.0	977.2	890.9	804.5	777.1	769.2
55°	11871.7	8747.8	2511.7	800.6	741.7	824.1	898.7	800.6	733.9	686.8	682.9
56°	11031.8	7821.6	2099.6	737.8	702.5	792.8	871.2	765.3	690.7	663.2	643.6
57.5°	9340.4	6400.9	1550.2	655.4	651.5	737.8	828.1	730.0	643.6	620.1	620.1
60°	5824.0	3602.7	938.0	549.4	565.1	655.4	745.7	651.5	573.0	573.0	584.8
62.5°	2653.0	1499.2	569.1	467.0	486.6	565.1	663.2	588.7	545.5	588.7	596.5
65°	902.6	647.5	412.1	372.8	384.6	467.0	569.1	596.5	592.6	620.1	635.8
67.5°	506.3	416.0	345.4	310.0	302.2	345.4	467.0	596.5	573.0	561.2	569.1
70°	427.8	353.2	306.1	274.7	262.9	278.6	361.1	451.3	404.2	392.5	384.6
72.5°	345.4	294.3	266.9	247.2	211.9	180.5	164.8	172.7	192.3	204.1	223.7
75°	243.3	223.7	223.7	200.2	153.1	113.8	90.3	74.6	51.0	35.3	39.2
77.5°	137.4	137.4	141.3	121.7	98.1	74.6	54.9	39.2	19.6	7.8	3.9
80°	94.2	102.0	109.9	98.1	82.4	66.7	47.1	27.5	11.8	0.0	0.0
82.5°	94.2	106.0	113.8	98.1	82.4	62.8	47.1	27.5	11.8	3.9	0.0
85°	19.6	23.5	27.5	31.4	47.1	47.1	35.3	23.5	11.8	3.9	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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)