

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: P531926

Luminaire Tested: **GALN-SA7B-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
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-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30535 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

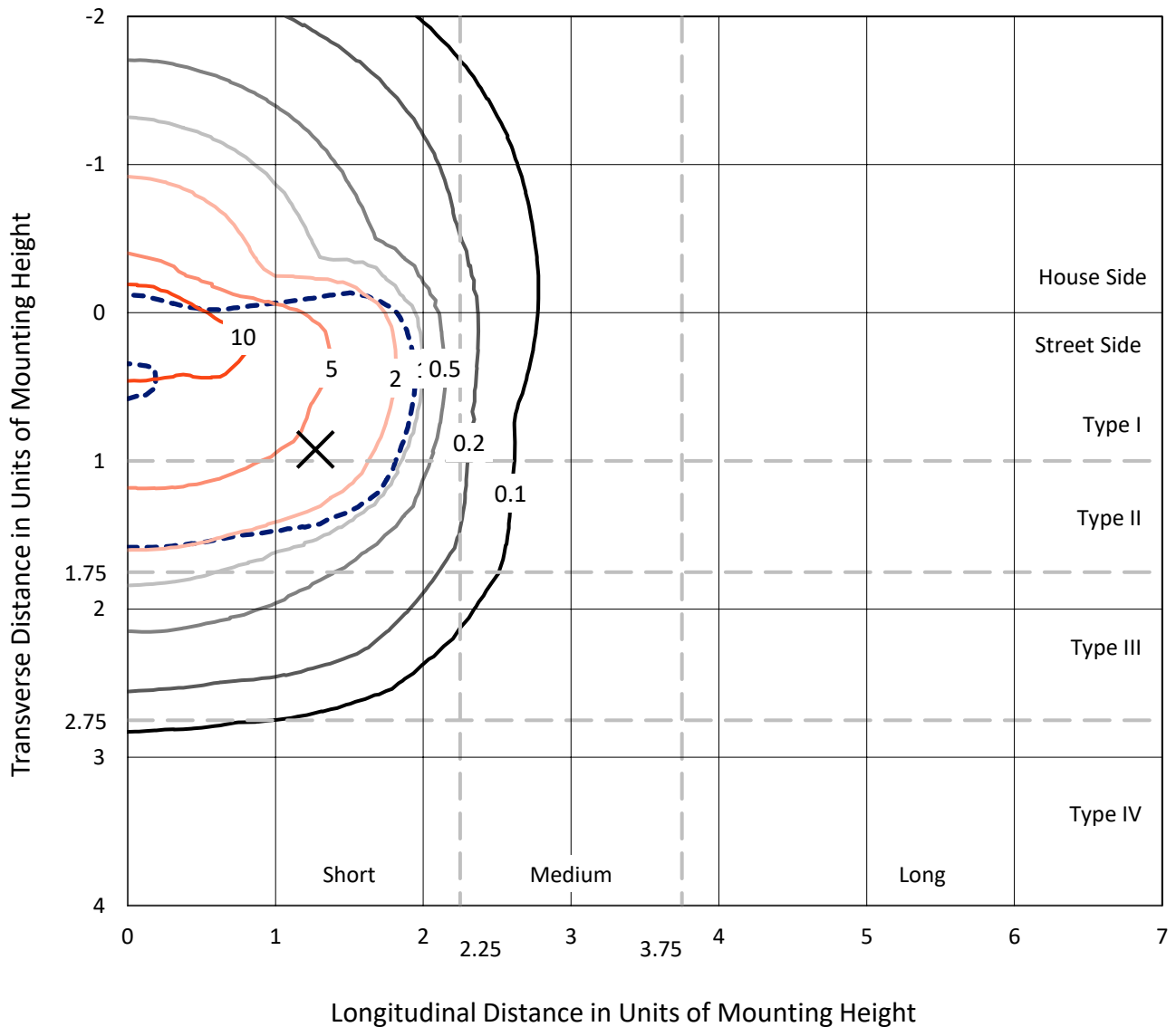
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

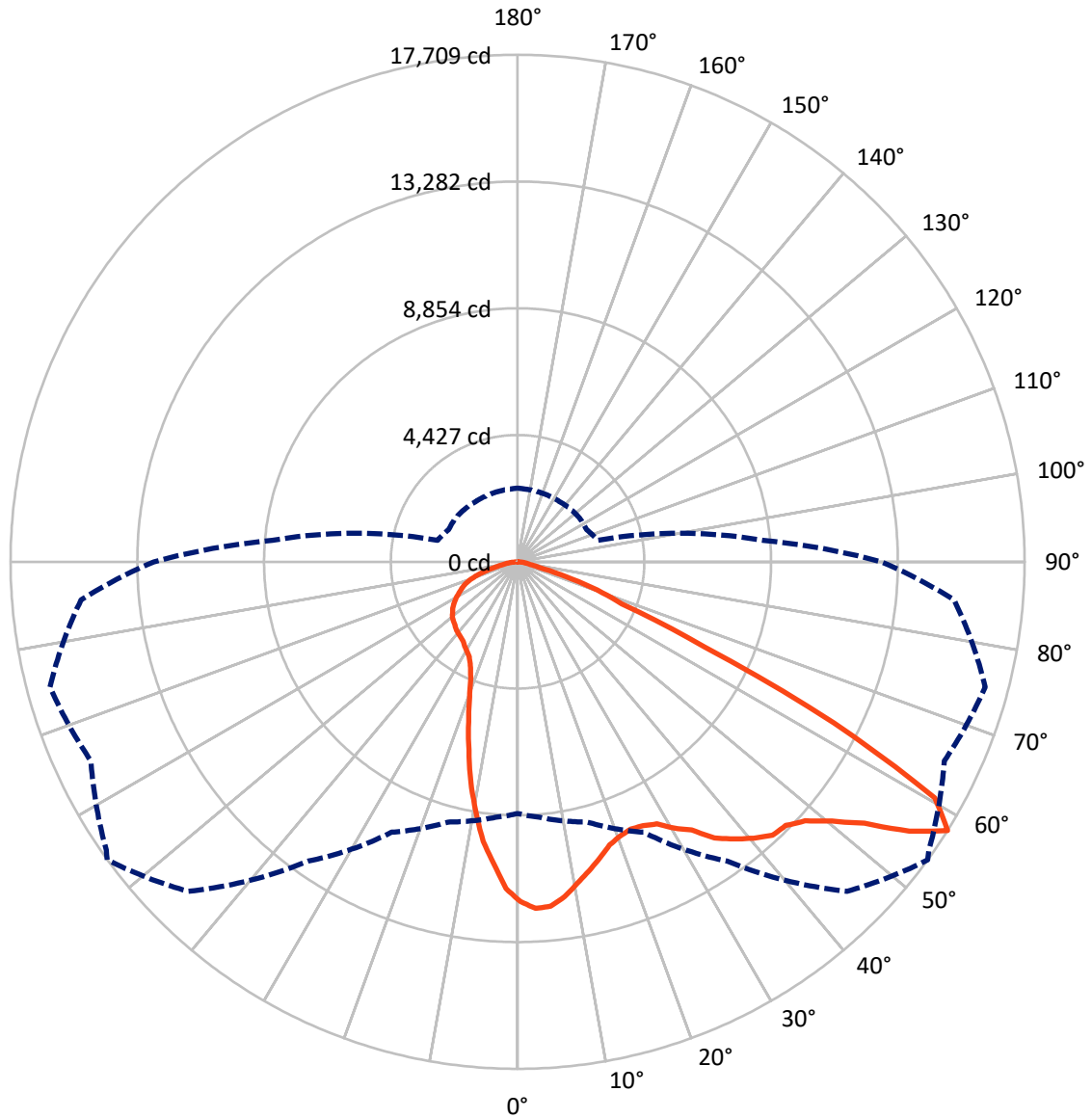
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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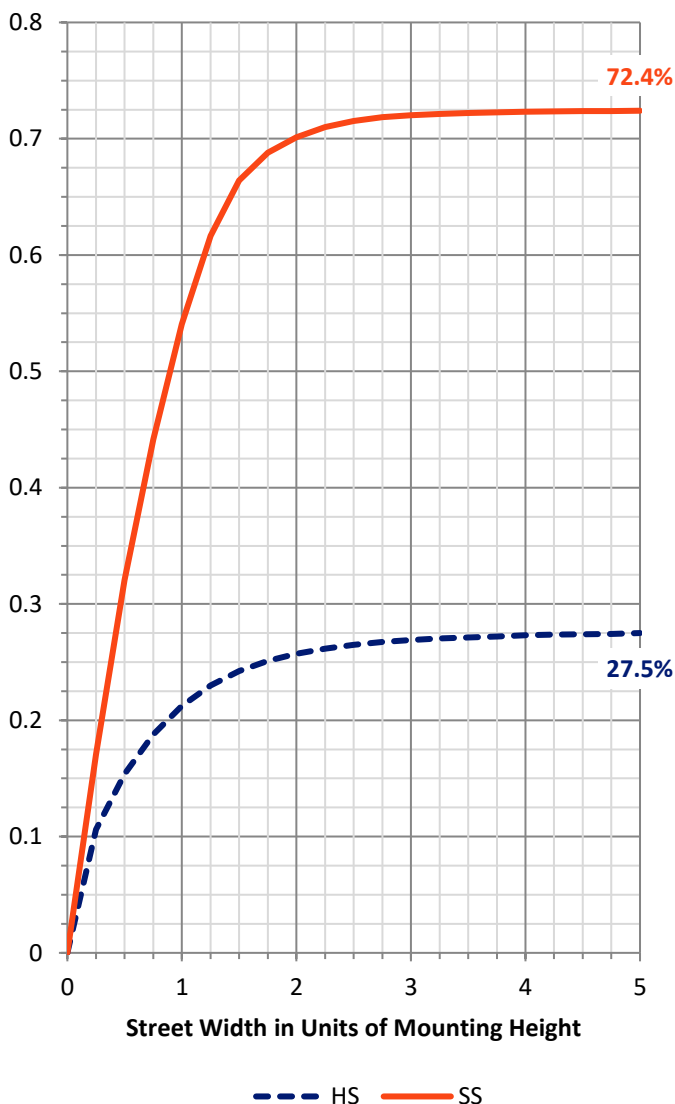
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8447.7	0.0	8447.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	22087.3	0.0	22087.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	30535.0	0.0	30535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1023.6	3.4
10°-20°	2369.9	7.8
20°-30°	3329.7	10.9
30°-40°	4655.0	15.2
40°-50°	6302.0	20.6
50°-60°	7676.1	25.1
60°-70°	3998.0	13.1
70°-80°	1024.4	3.4
80°-90°	156.3	0.5
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°	30535.0	100.0
0°-180°	30535.0	100.0

**Coefficient of Utilization**

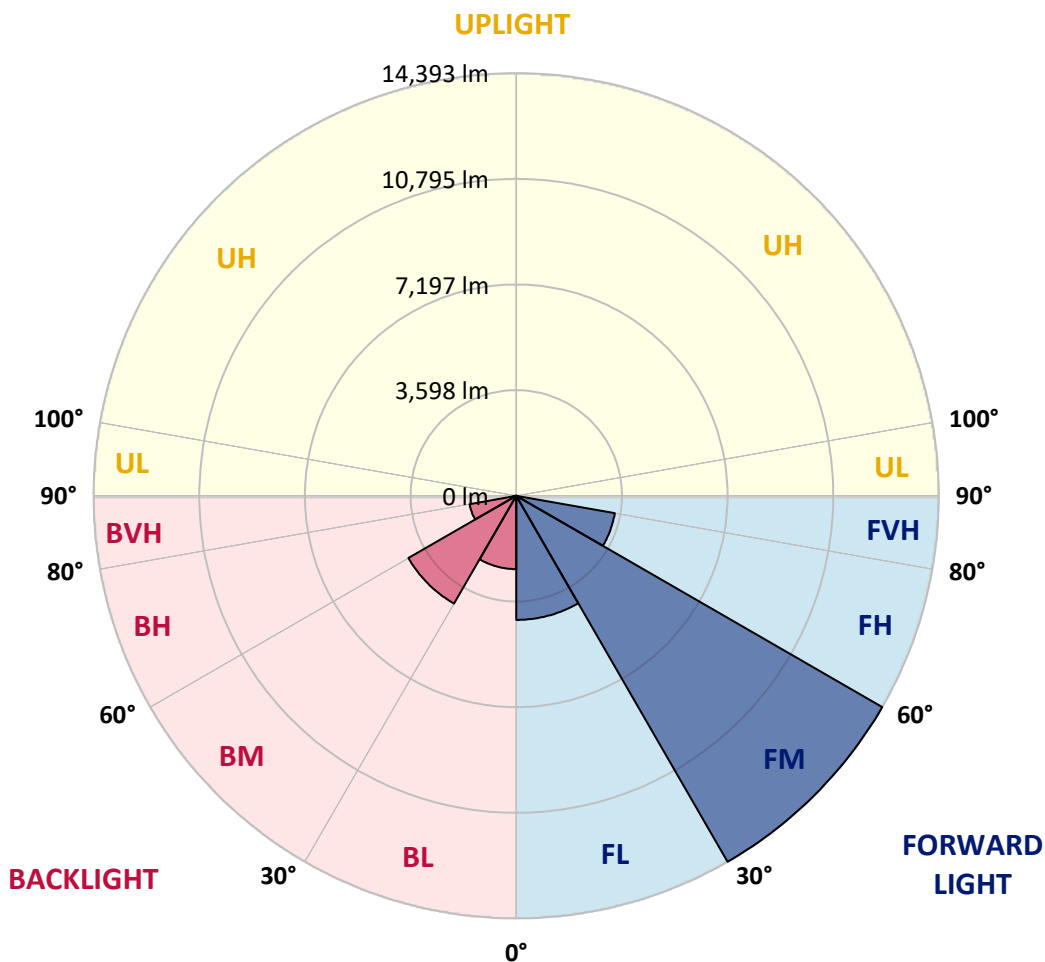


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4226.5	13.8			
FM (30°-60°)	14393.3	47.1			
FH (60°-80°)	3408.6	11.2			G2/5000
FVH (80°-90°)	59.0	0.2			G1/100
BL (0°-30°)	2496.7	8.2	B3/2500		
BM (30°-60°)	4239.8	13.9	B3/5000		
BH (60°-80°)	1613.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	97.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6
2.5°	12206.1	12159.0	12166.9	12229.7	12151.2	12119.8	12119.8	11966.7	11978.5	11872.5	11845.1
5°	11923.6	11813.7	11888.2	11982.4	11998.1	12029.5	12080.5	12041.3	11931.4	11817.6	11633.1
7.5°	11185.7	11283.8	11311.3	11378.0	11519.3	11648.8	11809.7	11699.8	11695.9	11582.1	11472.2
10°	10538.1	10479.2	10628.4	10726.5	10962.0	11177.8	11425.1	11413.3	11472.2	11342.7	11154.3
12.5°	9894.4	9847.3	9918.0	10141.7	10471.4	10785.4	11079.7	10969.8	11283.8	11260.3	10856.0
15°	9211.5	9246.8	9348.9	9556.9	9988.6	10365.4	10738.3	10742.2	11020.8	11115.0	10573.4
17.5°	8732.7	8693.4	8823.0	9133.0	9517.6	9969.0	10392.9	10479.2	10907.0	10962.0	10487.1
20°	8375.5	8430.5	8599.2	8756.2	9199.7	9745.3	10224.1	10255.5	10883.5	11032.6	10349.7
22.5°	8289.2	8257.8	8312.7	8567.8	8932.9	9525.5	10133.8	10251.6	10879.6	11009.1	10090.7
25°	8198.9	8301.0	8297.0	8552.1	8819.0	9348.9	10208.4	10337.9	11087.6	11130.7	10126.0
27.5°	8403.0	8391.2	8501.1	8520.7	8850.4	9396.0	10365.4	10463.5	11433.0	11397.6	10153.5
30°	8607.1	8548.2	8614.9	8846.5	8999.6	9666.8	10797.1	10789.3	11880.4	11856.8	10239.8
32.5°	8858.3	8830.8	8874.0	9078.1	9337.1	10027.9	11162.1	11393.7	12335.7	12484.8	10538.1
35°	8905.4	9019.2	9121.2	9396.0	9764.9	10612.7	11849.0	12041.3	12861.6	13328.6	11107.2
37.5°	9203.7	9246.8	9486.2	9972.9	10310.5	11393.7	12284.6	12406.3	13340.4	13870.3	11707.7
40°	9521.6	9572.6	9933.7	10443.9	10907.0	11903.9	12692.8	12732.1	13493.5	14286.3	12100.2
42.5°	9953.3	10000.4	10357.6	10997.3	11617.4	12339.6	13053.9	13097.1	13481.7	14765.1	12724.2
45°	10400.7	10514.5	10934.5	11660.6	12217.9	12849.8	13136.3	13312.9	13591.6	15192.9	13230.5
47.5°	11028.7	11134.7	11480.0	12190.4	12842.0	13297.2	13517.0	13689.7	13854.6	15565.8	13556.3
50°	11695.9	11715.5	12135.5	12779.2	13258.0	13803.5	14227.4	14286.3	14199.9	15997.5	14109.7
52.5°	12186.5	12249.3	12575.1	13203.0	13917.4	14588.5	15169.4	15232.2	15063.4	16158.4	14298.1
55°	11374.1	11338.8	11868.6	12704.6	14360.9	15758.1	16601.9	16649.0	15691.4	16656.9	14914.3
57.5°	8791.6	8960.3	9411.7	10420.4	12759.5	16276.2	17708.7	17539.9	16444.9	16908.1	15306.7
60°	6389.6	6350.3	6652.5	7327.6	9615.8	14027.2	16743.2	16915.9	15828.7	15240.0	12622.2
62.5°	5204.3	5149.3	5172.9	5196.4	6205.1	9309.6	12394.5	12390.6	12190.4	10954.1	8512.9
65°	4160.3	4289.8	4301.6	4478.2	4607.7	5561.4	7182.4	7567.0	6589.7	5404.5	3920.9
67.5°	3135.9	3088.8	3245.8	3873.8	4117.1	4015.1	3920.9	3964.1	2818.0	2033.0	1915.3
70°	1848.6	1829.0	2017.3	2700.3	3391.0	3190.9	2955.4	2959.3	1934.9	1420.8	1581.7
72.5°	1012.6	1008.7	1047.9	1369.8	1927.1	2001.6	1774.0	1829.0	1153.9	1150.0	1236.3
75°	565.2	553.4	541.6	604.4	694.7	733.9	749.6	757.5	792.8	887.0	922.3
77.5°	208.0	200.2	200.2	231.6	294.4	368.9	467.1	474.9	561.2	643.7	679.0
80°	70.6	78.5	106.0	145.2	196.2	263.0	317.9	325.8	396.4	451.4	463.1
82.5°	43.2	47.1	70.6	102.0	141.3	184.5	235.5	239.4	294.4	329.7	345.4
85°	19.6	23.5	39.2	62.8	90.3	121.7	125.6	125.6	121.7	125.6	117.7
87.5°	0.0	0.0	7.8	7.8	7.8	11.8	15.7	11.8	19.6	23.5	23.5
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°	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6	11868.6
2.5°	11762.6	11719.5	11586.0	11468.3	11433.0	11276.0	11044.4	11071.9	10903.1	10981.6	10899.2
5°	11601.7	11456.5	11115.0	10969.8	10589.1	10416.4	10298.7	10004.3	9867.0	9839.5	9721.7
7.5°	11189.6	11099.3	10671.5	10279.1	9874.8	9529.4	9085.9	8783.7	8567.8	8509.0	8336.3
10°	10863.9	10663.7	10071.0	9474.5	8897.5	8297.0	7720.1	7268.7	7048.9	6793.8	6707.5
12.5°	10542.0	10239.8	9439.2	8673.8	7928.1	7170.6	6472.0	5922.5	5443.7	5329.9	5290.6
15°	10341.9	9815.9	8874.0	7951.7	6892.0	5902.9	5204.3	4843.2	4548.8	4427.2	4513.5
17.5°	10078.9	9466.6	8332.4	7103.9	5938.2	5027.7	4442.9	4219.2	4113.2	4125.0	4089.6
20°	9749.2	9136.9	7622.0	6334.6	5086.5	4360.5	4026.8	3944.4	3960.1	3987.6	3975.8
22.5°	9513.7	8736.6	7107.8	5549.7	4395.8	3991.5	3854.2	3795.3	3846.3	3869.9	3850.2
25°	9333.2	8395.2	6483.8	4855.0	3995.4	3783.5	3720.7	3716.8	3795.3	3826.7	3807.1
27.5°	9168.3	8077.2	5863.7	4325.1	3728.6	3622.6	3603.0	3650.1	3701.1	3732.5	3760.0
30°	9070.2	7833.9	5282.8	3881.6	3595.1	3544.1	3508.8	3551.9	3579.4	3610.8	3595.1
32.5°	9164.4	7661.2	4721.5	3630.4	3485.2	3434.2	3481.3	3453.8	3500.9	3528.4	3485.2
35°	9458.8	7508.1	4321.2	3497.0	3359.6	3379.3	3387.1	3375.3	3395.0	3371.4	3422.4
37.5°	9749.2	7453.2	3952.3	3383.2	3300.8	3300.8	3292.9	3269.4	3308.6	3300.8	3324.3
40°	10118.1	7488.5	3638.3	3261.5	3245.8	3238.0	3206.6	3202.6	3186.9	3190.9	3198.7
42.5°	10440.0	7567.0	3457.8	3183.0	3194.8	3210.5	3151.6	3104.5	3124.1	3084.9	3084.9
45°	10781.4	7637.7	3296.8	3128.1	3116.3	3112.4	3065.3	3037.8	3022.1	3026.0	3061.3
47.5°	11319.1	7739.7	3175.2	3053.5	3061.3	3002.5	2990.7	2955.4	2971.1	2994.6	2998.5
50°	11699.8	7955.6	3081.0	2967.2	2994.6	2955.4	2884.7	2869.0	2869.0	2908.3	2900.4
52.5°	11966.7	8257.8	2990.7	2873.0	2884.7	2853.3	2829.8	2794.5	2770.9	2825.9	2853.3
55°	12783.1	8760.2	2967.2	2794.5	2790.5	2759.1	2716.0	2680.6	2668.9	2676.7	2731.7
57.5°	12704.6	8603.2	2892.6	2657.1	2649.2	2606.1	2562.9	2551.1	2547.2	2555.0	2570.7
60°	10314.4	6354.3	2582.5	2500.1	2488.3	2480.5	2437.3	2390.2	2366.7	2390.2	2370.6
62.5°	6825.2	4254.5	2276.4	2311.7	2319.6	2299.9	2229.3	2182.2	2190.0	2217.5	2174.3
65°	3351.8	2500.1	2064.4	2158.6	2166.5	2111.5	2044.8	1989.9	1962.4	1986.0	1966.3
67.5°	1915.3	1911.4	1891.8	1989.9	1986.0	1931.0	1825.0	1777.9	1730.8	1738.7	1726.9
70°	1624.9	1656.3	1695.5	1754.4	1750.5	1687.7	1562.1	1526.7	1460.0	1452.2	1432.6
72.5°	1279.5	1334.4	1420.8	1464.0	1428.6	1350.1	1267.7	1208.8	1150.0	1114.6	1126.4
75°	949.8	1028.3	1075.4	1102.9	1047.9	1004.7	938.0	867.4	796.7	765.3	753.6
77.5°	690.8	714.3	757.5	777.1	741.8	698.6	659.4	588.7	522.0	478.8	467.1
80°	482.8	498.5	529.8	529.8	529.8	510.2	459.2	388.6	345.4	306.1	298.3
82.5°	337.5	353.2	384.6	368.9	365.0	341.5	310.1	255.1	208.0	180.5	172.7
85°	117.7	129.5	157.0	188.4	200.2	196.2	176.6	141.3	109.9	90.3	82.4
87.5°	27.5	27.5	31.4	27.5	27.5	31.4	27.5	27.5	27.5	19.6	15.7
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)