

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: P651149

Luminaire Tested: **GALN-SA9C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32598.9 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

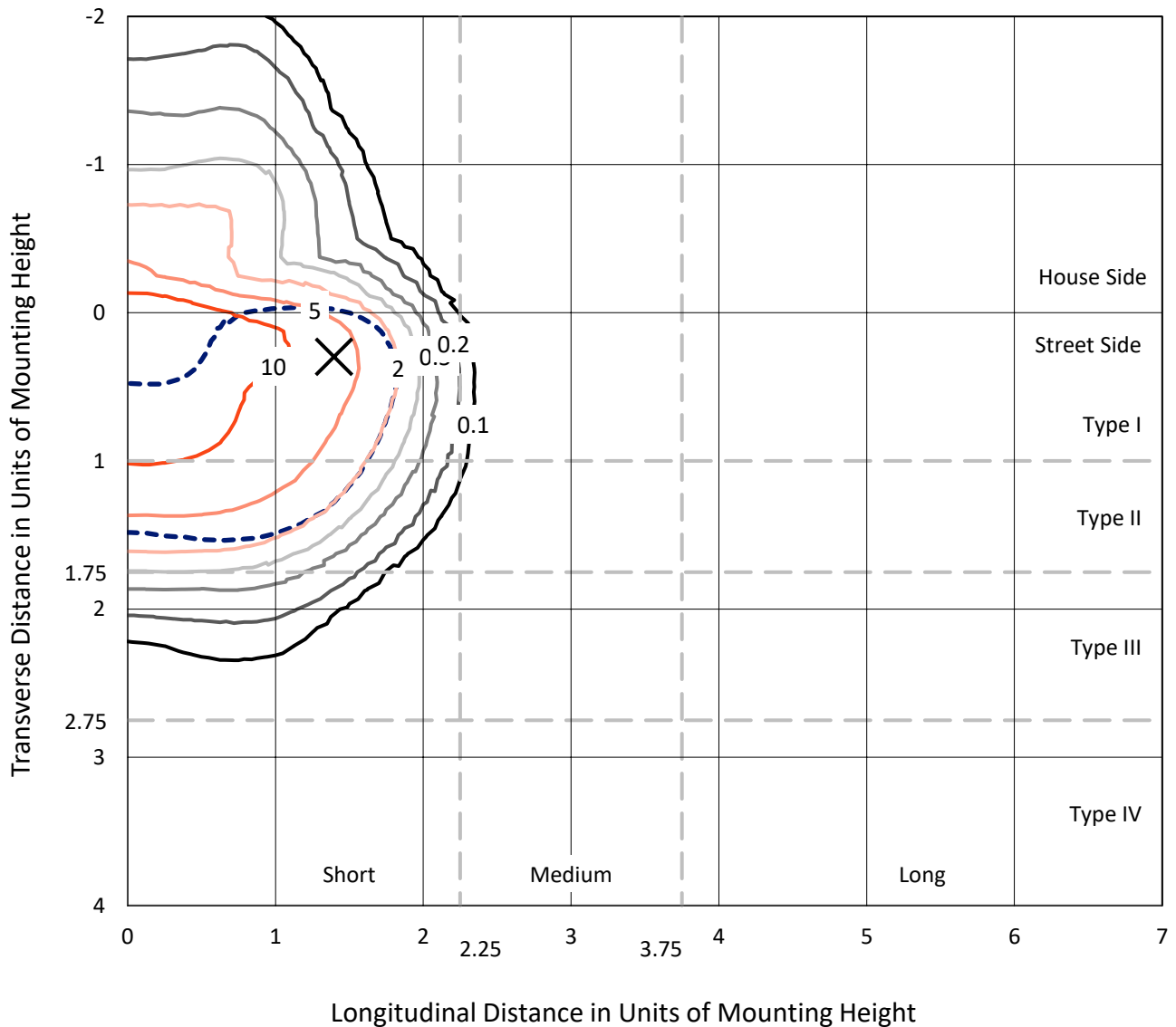
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

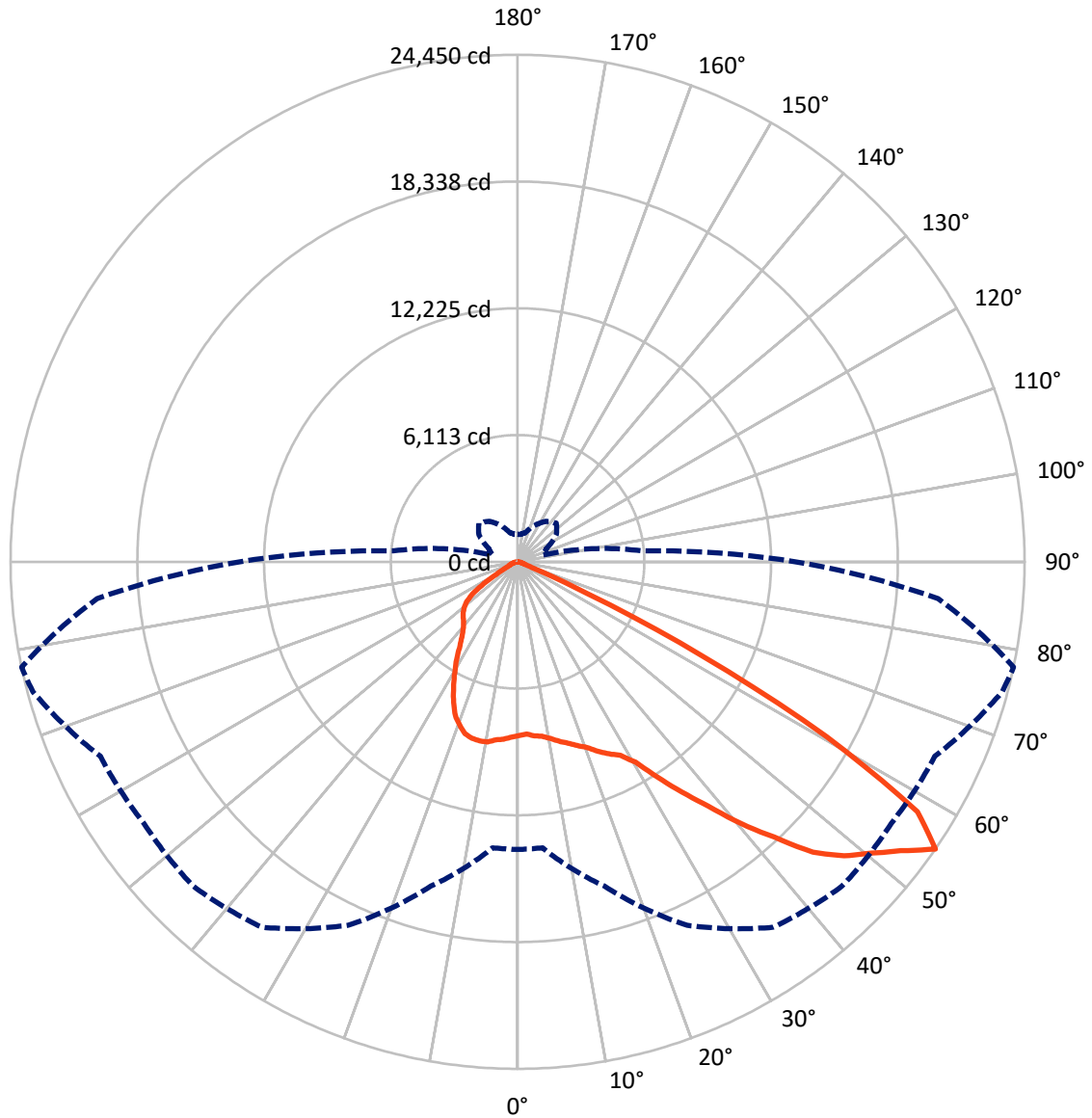
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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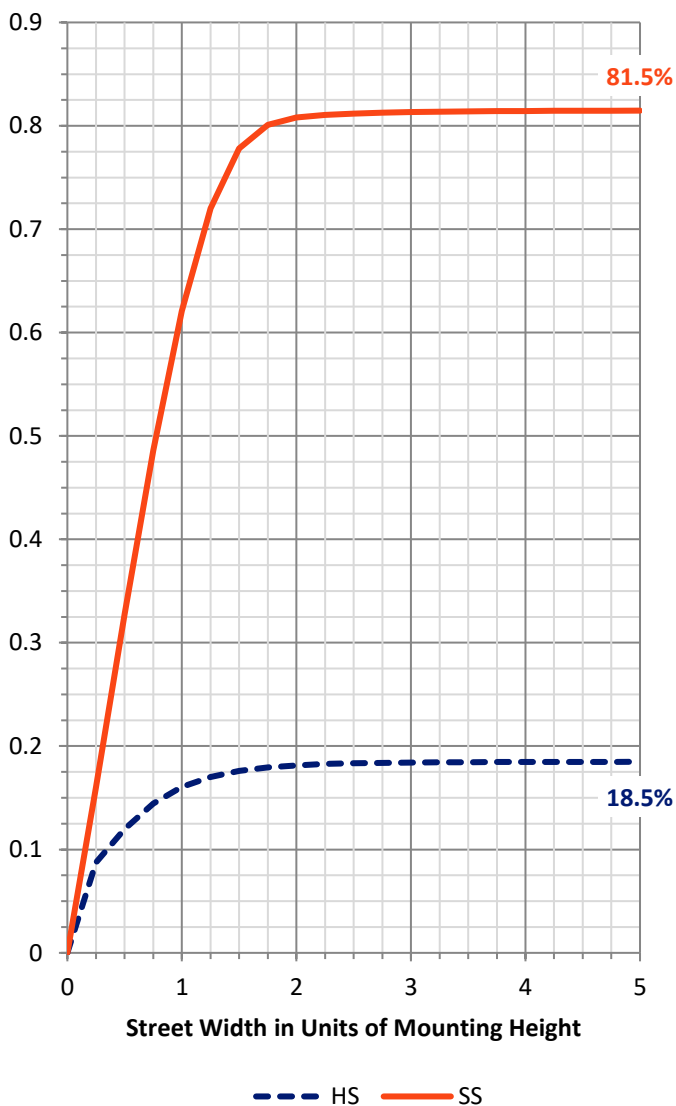
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6054.9	0.0	6054.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	26544.0	0.0	26544.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	32598.9	0.0	32598.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	747.3	2.3
10°-20°	1977.8	6.1
20°-30°	3466.8	10.6
30°-40°	5716.3	17.5
40°-50°	8317.9	25.5
50°-60°	9425.1	28.9
60°-70°	2694.8	8.3
70°-80°	209.2	0.6
80°-90°	43.5	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°	32598.9	100.0
0°-180°	32598.9	100.0

**Coefficient of Utilization**



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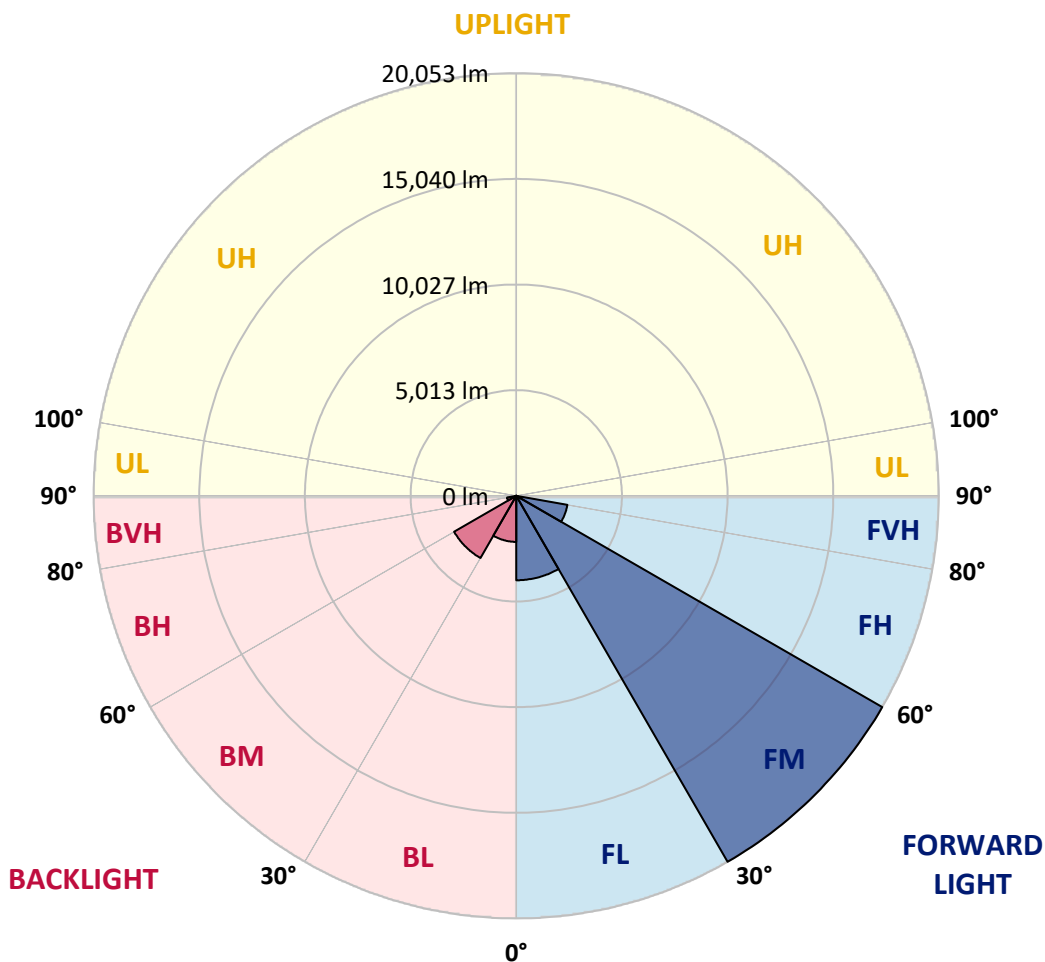
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4007.3	12.3			
FM (30°-60°)	20053.4	61.5			
FH (60°-80°)	2462.1	7.6			G2/5000
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	2184.6	6.7	B3/2500		
BM (30°-60°)	3406.0	10.4	B3/5000		
BH (60°-80°)	442.0	1.4	B1/500		G1/500
BVH (80°-90°)	22.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2
2.5°	7879.9	7955.7	7967.4	8060.6	8054.8	8212.2	8258.8	8264.6	8369.5	8317.1	8451.1
5°	7658.5	7617.7	7600.2	7763.4	7810.0	7949.9	8066.5	8136.4	8352.1	8427.8	8567.7
7.5°	7460.3	7460.3	7471.9	7617.7	7600.2	7780.8	7903.3	8118.9	8433.6	8497.7	8666.8
10°	7268.0	7198.0	7285.4	7437.0	7565.2	7646.8	7903.3	8107.2	8474.4	8661.0	8894.1
12.5°	7168.9	7203.8	7215.5	7326.3	7466.1	7711.0	7850.8	8188.8	8765.8	8876.6	9127.2
15°	7792.5	7722.6	7553.5	7454.5	7571.0	7687.6	8037.3	8381.2	8917.4	9074.7	9354.5
17.5°	8515.2	8456.9	8317.1	8049.0	7786.7	8002.4	8276.3	8591.0	9080.6	9313.7	9727.5
20°	9459.4	9366.1	9226.3	8701.7	8474.4	8241.3	8532.7	8905.8	9348.7	9558.5	9984.0
22.5°	10584.3	10584.3	10269.5	9634.2	9162.2	8940.7	9063.1	9278.8	9645.9	9931.5	10351.2
25°	11755.8	11720.8	11435.2	10776.7	9978.1	9715.9	9855.8	10007.3	10106.4	10263.7	10543.5
27.5°	13096.3	12892.4	12531.0	11802.4	11097.2	10590.1	10741.7	10607.6	10485.3	10566.8	10969.0
30°	14005.5	14133.8	13673.3	12973.9	12309.5	11744.1	11773.3	11656.7	11097.2	11213.7	11452.7
32.5°	14949.8	15031.4	14774.9	14390.2	13725.8	13067.2	12828.2	12729.1	12309.5	12361.9	12128.8
35°	15736.5	15894.0	15666.7	15497.6	15305.3	14774.9	14116.3	14436.9	13760.8	13632.5	13026.4
37.5°	16459.3	16412.6	16680.7	16505.9	16465.1	16092.1	15369.4	15433.5	14978.9	14949.8	14250.3
40°	17106.3	17117.9	17485.1	17566.6	17403.5	16739.0	15689.9	16197.0	16564.2	16599.2	15701.6
42.5°	17642.4	17799.8	18114.6	18773.1	18528.3	17421.0	16022.1	16575.9	17939.7	18155.3	17077.1
45°	18108.7	18429.3	18819.8	19408.4	19268.6	18388.5	16849.8	17356.9	19408.4	19973.8	18371.0
47.5°	18137.8	18557.5	18983.0	19857.2	20032.0	18907.2	17706.6	18592.5	20574.1	21186.1	19315.2
50°	18021.3	18242.8	19093.7	20043.7	20440.1	19752.3	18907.2	19629.9	21704.8	22089.5	19793.1
52.5°	16639.9	16809.0	18516.7	20218.6	21174.4	20708.2	20498.4	21075.4	22858.8	23144.4	20241.9
55°	13871.5	13842.4	16191.2	19338.5	21512.4	22124.4	21996.3	22200.2	24193.6	24450.0	20352.6
57.5°	9488.6	10018.9	12047.2	16103.7	19443.4	21792.2	21926.3	21588.2	22637.4	22736.4	17741.6
60°	5117.3	5338.8	6970.7	10747.5	14804.0	17759.0	18108.7	17496.8	17415.2	17135.4	12665.0
62.5°	2034.1	2144.8	3071.6	5321.3	8066.5	10794.2	11546.0	11295.4	10759.2	10024.8	6556.9
65°	967.5	1037.5	1527.0	2488.7	3578.6	4499.5	5251.4	5484.5	4044.9	3642.7	2162.3
67.5°	658.6	711.1	1113.2	1422.1	1276.4	1334.7	1736.8	1614.5	950.0	810.1	600.3
70°	501.2	536.2	891.7	967.5	571.2	402.2	448.8	419.7	390.5	396.4	390.5
72.5°	355.5	384.7	652.8	571.2	250.6	186.5	238.9	285.6	285.6	285.6	279.8
75°	215.6	244.8	378.9	221.5	99.1	99.1	151.5	192.3	204.0	209.8	198.1
77.5°	110.8	139.9	128.3	64.1	64.1	75.8	110.8	134.1	145.7	145.7	139.9
80°	23.3	23.3	23.3	35.0	64.1	81.6	110.8	122.4	139.9	139.9	128.3
82.5°	0.0	5.8	17.5	35.0	58.3	75.8	104.9	122.4	139.9	145.7	134.1
85°	0.0	5.8	11.7	23.3	40.8	46.6	40.8	35.0	35.0	35.0	35.0
87.5°	0.0	0.0	5.8	5.8	5.8	11.7	11.7	11.7	11.7	11.7	11.7
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°	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2	8381.2
2.5°	8462.8	8480.2	8451.1	8445.3	8421.9	8491.9	8322.9	8282.1	8387.0	8287.9	8311.3
5°	8573.5	8614.3	8561.9	8474.4	8346.3	8148.0	7979.0	7757.6	7652.6	7576.9	7565.2
7.5°	8655.2	8684.3	8631.8	8352.1	7967.4	7466.1	7093.1	6819.2	6603.5	6539.4	6434.5
10°	8987.3	8993.1	8730.8	8113.0	7361.2	6702.6	6131.4	5711.8	5496.1	5362.1	5303.8
12.5°	9208.8	9197.2	8666.8	7641.0	6638.5	5764.2	5111.4	4604.4	4406.3	4342.2	4301.3
15°	9488.6	9424.5	8515.2	7157.2	5705.9	4761.7	4173.1	3823.4	3805.9	3765.2	3805.9
17.5°	9710.0	9529.4	8293.8	6277.1	4814.2	3922.5	3537.8	3561.1	3607.7	3648.6	3654.4
20°	10071.4	9698.4	7786.7	5507.8	3986.6	3363.0	3357.1	3462.1	3578.6	3625.2	3671.9
22.5°	10345.3	9768.3	7244.6	4686.0	3310.5	3135.7	3234.7	3392.1	3479.6	3526.1	3596.1
25°	10444.4	9576.0	6522.0	3864.2	2984.1	3030.7	3182.3	3287.2	3397.9	3450.4	3421.3
27.5°	10543.5	9476.9	5659.3	3182.3	2809.3	2960.8	3089.0	3193.9	3228.9	3298.8	3345.5
30°	10782.5	9133.0	4884.2	2751.0	2721.8	2914.1	3007.4	3042.4	3135.7	3176.5	3176.5
32.5°	10974.8	8999.0	4062.4	2547.0	2710.2	2937.5	2949.1	2949.1	2960.8	2931.6	2920.0
35°	11371.2	8538.6	3328.0	2424.6	2704.3	2943.3	2972.4	2873.4	2605.2	2500.4	2471.2
37.5°	11860.7	8241.3	2786.0	2395.4	2745.2	3013.3	3059.9	2686.9	2337.1	2168.2	2139.0
40°	12455.2	8031.5	2430.4	2383.8	2838.4	3176.5	3036.6	2541.2	2086.5	1841.8	1830.1
42.5°	13148.8	7839.1	2191.5	2378.0	2954.9	3345.5	3013.3	2418.8	1830.1	1666.9	1690.2
45°	13702.5	7734.3	2028.2	2337.1	2995.8	3444.6	3030.7	2203.1	1725.2	1620.3	1632.0
47.5°	14133.8	7512.7	1894.2	2267.3	2989.9	3479.6	2873.4	2115.7	1672.7	1701.8	1731.0
50°	14145.5	7215.5	1725.2	2115.7	2902.5	3415.4	2692.7	2034.1	1661.1	1783.5	1841.8
52.5°	13988.1	6795.9	1544.5	1900.1	2698.5	3193.9	2529.5	1999.1	1608.7	1597.0	1666.9
55°	13428.5	6009.0	1241.4	1538.7	2278.9	2634.4	2383.8	1935.1	1451.2	1317.2	1328.9
57.5°	10852.4	4307.2	915.1	1101.5	1614.5	1929.2	2150.7	1905.9	1305.6	1119.0	1124.8
60°	6720.1	2442.1	670.3	751.9	996.7	1171.5	1742.7	1771.8	1165.7	944.2	932.5
62.5°	3450.4	1206.5	518.7	530.4	612.0	687.8	1194.8	1486.2	1055.0	897.6	897.6
65°	1154.0	594.5	454.6	408.0	408.0	425.5	722.8	1031.7	891.7	751.9	751.9
67.5°	495.4	443.0	396.4	355.5	326.4	308.9	408.0	600.3	664.5	571.2	547.8
70°	384.7	373.0	343.9	297.2	256.4	233.1	238.9	308.9	378.9	367.2	355.5
72.5°	285.6	285.6	273.9	233.1	198.1	169.0	157.4	163.2	180.6	186.5	192.3
75°	198.1	204.0	204.0	180.6	145.7	122.4	104.9	87.5	70.0	58.3	52.5
77.5°	134.1	139.9	151.5	134.1	110.8	81.6	64.1	46.6	29.2	11.7	11.7
80°	116.6	134.1	145.7	134.1	116.6	87.5	64.1	35.0	17.5	0.0	0.0
82.5°	122.4	134.1	151.5	128.3	110.8	81.6	64.1	40.8	17.5	5.8	0.0
85°	29.2	29.2	35.0	40.8	52.5	58.3	46.6	29.2	17.5	5.8	0.0
87.5°	11.7	11.7	11.7	11.7	11.7	5.8	5.8	5.8	5.8	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)