

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: P532628

Luminaire Tested: **GALN-SA8A-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532628  
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-SA8A-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA 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: 28452 lumens  
Efficiency: N/A  
Efficacy: 116.6 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

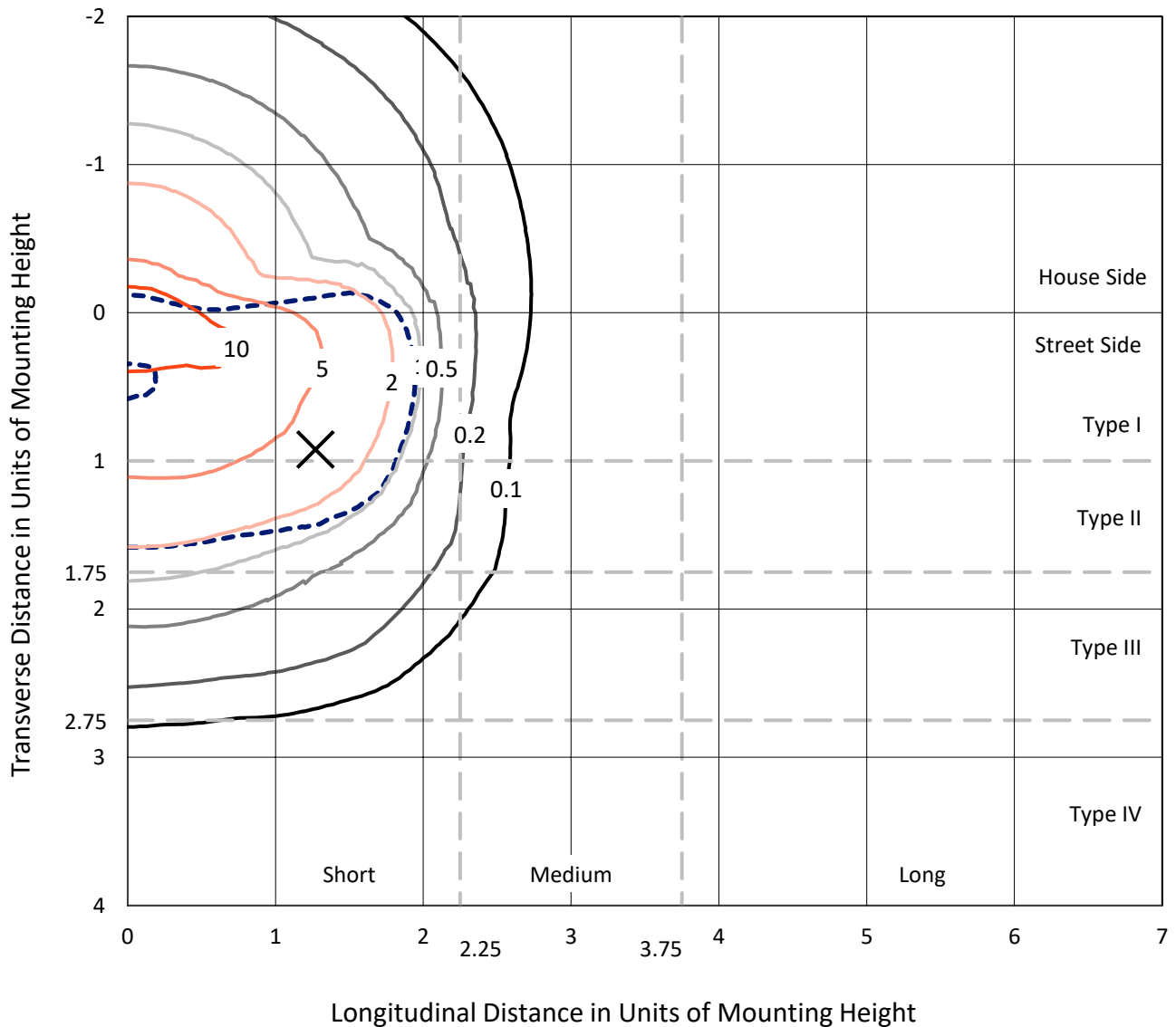
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

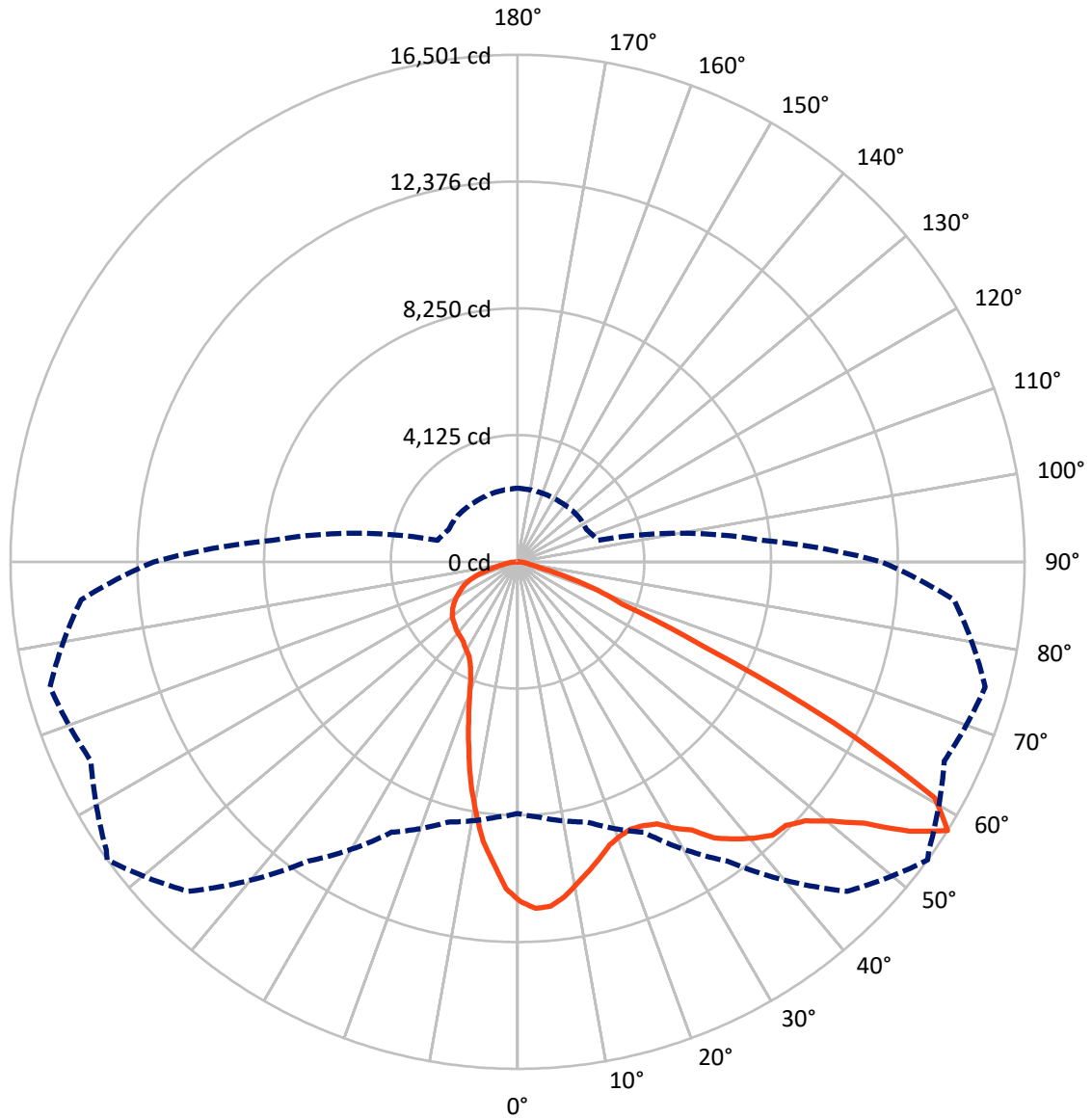
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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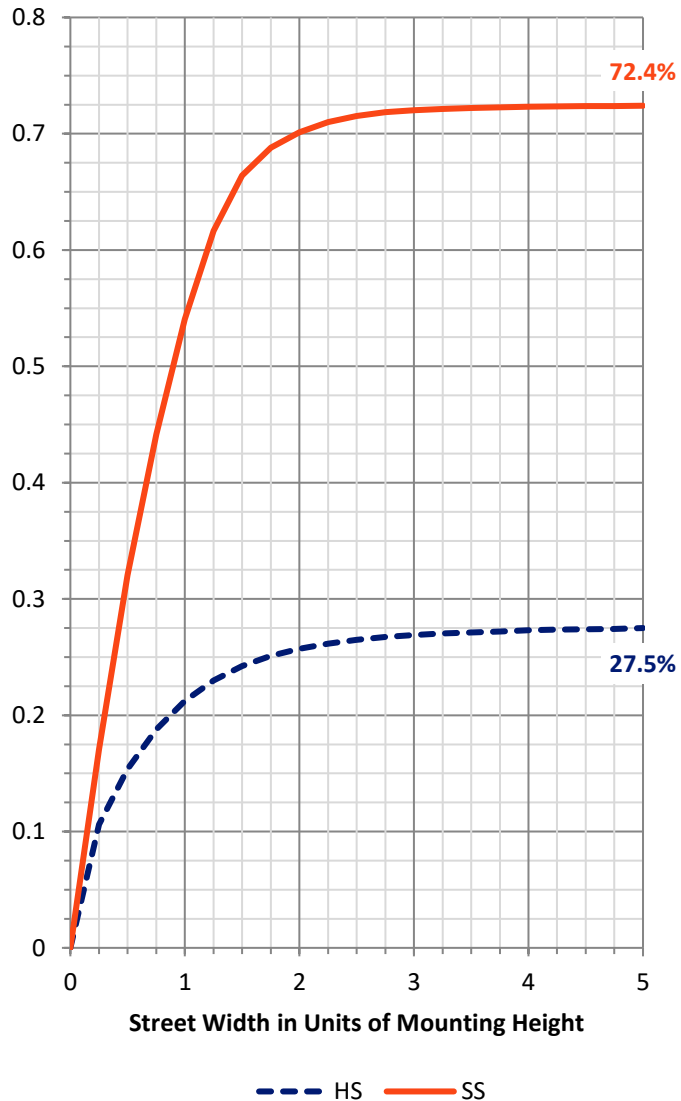
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7871.4	0.0	7871.4
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	20580.6	0.0	20580.6
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	28452.0	0.0	28452.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	953.7	3.4
10°-20°	2208.2	7.8
20°-30°	3102.6	10.9
30°-40°	4337.5	15.2
40°-50°	5872.1	20.6
50°-60°	7152.4	25.1
60°-70°	3725.3	13.1
70°-80°	954.6	3.4
80°-90°	145.6	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°	28452.0	100.0
0°-180°	28452.0	100.0

**Coefficient of Utilization**

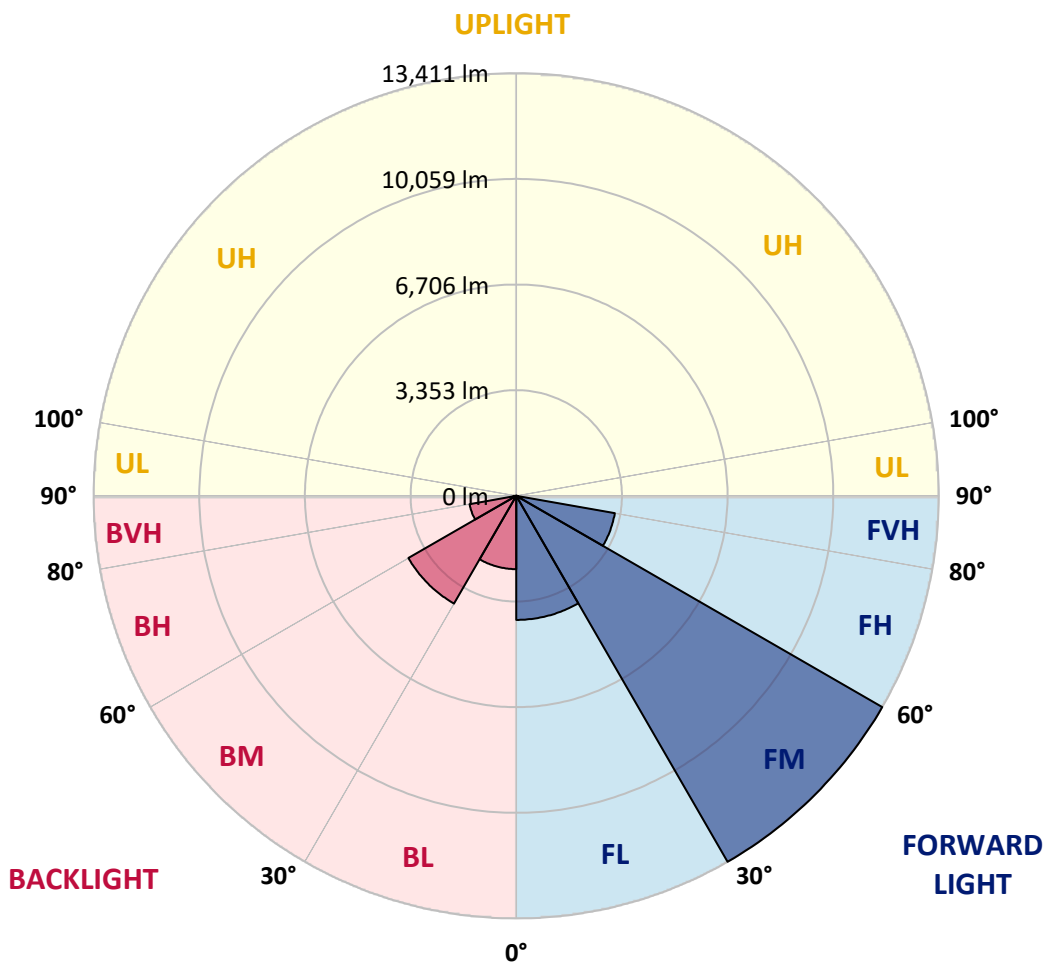


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3938.1	13.8			
FM (30°-60°)	13411.4	47.1			
FH (60°-80°)	3176.0	11.2			G2/5000
FVH (80°-90°)	55.0	0.2			G1/100
BL (0°-30°)	2326.4	8.2	B3/2500		
BM (30°-60°)	3950.6	13.9	B3/5000		
BH (60°-80°)	1503.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	90.6	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°	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0
2.5°	11373.5	11329.6	11336.9	11395.4	11322.3	11293.0	11293.0	11150.4	11161.4	11062.6	11037.0
5°	11110.2	11007.8	11077.3	11165.0	11179.6	11208.9	11256.4	11219.9	11117.5	11011.4	10839.5
7.5°	10422.6	10514.1	10539.7	10601.8	10733.5	10854.2	11004.1	10901.7	10898.1	10792.0	10689.6
10°	9819.2	9764.4	9903.3	9994.8	10214.2	10415.3	10645.7	10634.7	10689.6	10568.9	10393.4
12.5°	9219.5	9175.6	9241.4	9449.9	9757.1	10049.6	10323.9	10221.5	10514.1	10492.1	10115.4
15°	8583.1	8616.0	8711.1	8905.0	9307.2	9658.3	10005.7	10009.4	10269.0	10356.8	9852.1
17.5°	8137.0	8100.4	8221.1	8510.0	8868.4	9288.9	9683.9	9764.4	10163.0	10214.2	9771.7
20°	7804.2	7855.4	8012.6	8158.9	8572.2	9080.5	9526.7	9555.9	10141.0	10280.0	9643.7
22.5°	7723.7	7694.5	7745.7	7983.4	8323.5	8875.7	9442.5	9552.3	10137.4	10258.1	9402.3
25°	7639.6	7734.7	7731.0	7968.7	8217.4	8711.1	9512.0	9632.7	10331.2	10371.4	9435.2
27.5°	7829.8	7818.8	7921.2	7939.5	8246.7	8755.0	9658.3	9749.7	10653.0	10620.1	9460.8
30°	8019.9	7965.1	8027.3	8243.0	8385.7	9007.4	10060.6	10053.3	11069.9	11048.0	9541.3
32.5°	8254.0	8228.4	8268.6	8458.8	8700.2	9343.8	10400.7	10616.5	11494.2	11633.1	9819.2
35°	8297.9	8403.9	8499.0	8755.0	9098.8	9888.7	11040.7	11219.9	11984.2	12419.4	10349.5
37.5°	8575.8	8616.0	8839.1	9292.6	9607.1	10616.5	11446.6	11560.0	12430.4	12924.1	10909.0
40°	8872.0	8919.6	9256.0	9731.5	10163.0	11091.9	11827.0	11863.5	12573.0	13311.7	11274.7
42.5°	9274.3	9318.2	9651.0	10247.1	10824.9	11497.8	12163.4	12203.6	12562.0	13757.9	11856.2
45°	9691.2	9797.3	10188.6	10865.1	11384.4	11973.2	12240.2	12404.8	12664.4	14156.5	12328.0
47.5°	10276.4	10375.1	10696.9	11358.8	11965.9	12390.1	12594.9	12755.8	12909.4	14503.9	12631.5
50°	10898.1	10916.3	11307.6	11907.4	12353.6	12861.9	13256.9	13311.7	13231.3	14906.2	13147.2
52.5°	11355.2	11413.7	11717.2	12302.4	12968.0	13593.3	14134.6	14193.1	14035.8	15056.1	13322.7
55°	10598.2	10565.3	11059.0	11837.9	13381.2	14683.1	15469.4	15513.3	14620.9	15520.6	13896.8
57.5°	8191.8	8349.1	8769.6	9709.5	11889.1	15165.9	16500.7	16343.4	15323.1	15754.6	14262.6
60°	5953.7	5917.1	6198.7	6827.7	8959.8	13070.4	15601.0	15762.0	14748.9	14200.4	11761.1
62.5°	4849.3	4798.1	4820.0	4842.0	5781.8	8674.6	11549.0	11545.4	11358.8	10206.9	7932.2
65°	3876.5	3997.2	4008.1	4172.7	4293.4	5182.1	6692.4	7050.8	6140.2	5035.8	3653.4
67.5°	2922.0	2878.1	3024.4	3609.5	3836.3	3741.2	3653.4	3693.6	2625.8	1894.4	1784.6
70°	1722.5	1704.2	1879.7	2516.1	3159.7	2973.2	2753.8	2757.4	1802.9	1323.9	1473.8
72.5°	943.5	939.9	976.4	1276.3	1795.6	1865.1	1653.0	1704.2	1075.2	1071.5	1152.0
75°	526.6	515.6	504.7	563.2	647.3	683.9	698.5	705.8	738.7	826.5	859.4
77.5°	193.8	186.5	186.5	215.8	274.3	343.8	435.2	442.5	523.0	599.8	632.7
80°	65.8	73.1	98.7	135.3	182.9	245.0	296.2	303.5	369.4	420.6	431.5
82.5°	40.2	43.9	65.8	95.1	131.7	171.9	219.4	223.1	274.3	307.2	321.8
85°	18.3	21.9	36.6	58.5	84.1	113.4	117.0	117.0	113.4	117.0	109.7
87.5°	0.0	0.0	7.3	7.3	7.3	11.0	14.6	11.0	18.3	21.9	21.9
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°	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0	11059.0
2.5°	10960.2	10920.0	10795.7	10685.9	10653.0	10506.7	10291.0	10316.6	10159.3	10232.5	10155.7
5°	10810.3	10675.0	10356.8	10221.5	9866.8	9705.9	9596.1	9321.9	9193.9	9168.3	9058.6
7.5°	10426.3	10342.2	9943.6	9577.9	9201.2	8879.4	8466.1	8184.5	7983.4	7928.5	7767.6
10°	10122.8	9936.2	9384.0	8828.2	8290.6	7731.0	7193.4	6772.9	6568.1	6330.4	6249.9
12.5°	9822.9	9541.3	8795.2	8082.1	7387.3	6681.5	6030.5	5518.5	5072.4	4966.3	4929.7
15°	9636.4	9146.3	8268.6	7409.2	6421.8	5500.2	4849.3	4512.8	4238.5	4125.2	4205.6
17.5°	9391.3	8820.8	7764.0	6619.3	5533.1	4684.7	4139.8	3931.3	3832.6	3843.6	3810.7
20°	9084.2	8513.6	7102.0	5902.5	4739.6	4063.0	3752.1	3675.4	3690.0	3715.6	3704.6
22.5°	8864.7	8140.6	6622.9	5171.1	4095.9	3719.2	3591.2	3536.4	3583.9	3605.9	3587.6
25°	8696.5	7822.5	6041.5	4523.8	3722.9	3525.4	3466.9	3463.2	3536.4	3565.6	3547.4
27.5°	8542.9	7526.2	5463.7	4030.1	3474.2	3375.5	3357.2	3401.1	3448.6	3477.9	3503.5
30°	8451.5	7299.5	4922.4	3616.8	3349.9	3302.3	3269.4	3309.6	3335.2	3364.5	3349.9
32.5°	8539.2	7138.6	4399.4	3382.8	3247.5	3199.9	3243.8	3218.2	3262.1	3287.7	3247.5
35°	8813.5	6996.0	4026.4	3258.4	3130.4	3148.7	3156.0	3145.1	3163.4	3141.4	3189.0
37.5°	9084.2	6944.8	3682.7	3152.4	3075.6	3075.6	3068.3	3046.3	3082.9	3075.6	3097.5
40°	9427.9	6977.7	3390.1	3039.0	3024.4	3017.1	2987.8	2984.2	2969.5	2973.2	2980.5
42.5°	9727.8	7050.8	3221.9	2965.9	2976.9	2991.5	2936.6	2892.7	2911.0	2874.5	2874.5
45°	10046.0	7116.6	3071.9	2914.7	2903.7	2900.1	2856.2	2830.6	2815.9	2819.6	2852.5
47.5°	10547.0	7211.7	2958.6	2845.2	2852.5	2797.7	2786.7	2753.8	2768.4	2790.3	2794.0
50°	10901.7	7412.9	2870.8	2764.7	2790.3	2753.8	2687.9	2673.3	2673.3	2709.9	2702.6
52.5°	11150.4	7694.5	2786.7	2677.0	2687.9	2658.7	2636.7	2603.8	2581.9	2633.1	2658.7
55°	11911.1	8162.6	2764.7	2603.8	2600.2	2570.9	2530.7	2497.8	2486.8	2494.1	2545.3
57.5°	11837.9	8016.3	2695.3	2475.8	2468.5	2428.3	2388.1	2377.1	2373.4	2380.7	2395.4
60°	9610.8	5920.8	2406.3	2329.6	2318.6	2311.3	2271.0	2227.2	2205.2	2227.2	2208.9
62.5°	6359.6	3964.3	2121.1	2154.0	2161.3	2143.0	2077.2	2033.3	2040.6	2066.2	2026.0
65°	3123.1	2329.6	1923.6	2011.4	2018.7	1967.5	1905.3	1854.1	1828.5	1850.5	1832.2
67.5°	1784.6	1781.0	1762.7	1854.1	1850.5	1799.3	1700.5	1656.7	1612.8	1620.1	1609.1
70°	1514.0	1543.3	1579.9	1634.7	1631.1	1572.5	1455.5	1422.6	1360.4	1353.1	1334.8
72.5°	1192.2	1243.4	1323.9	1364.1	1331.2	1258.0	1181.2	1126.4	1071.5	1038.6	1049.6
75°	885.0	958.2	1002.0	1027.6	976.4	936.2	874.0	808.2	742.4	713.1	702.2
77.5°	643.6	665.6	705.8	724.1	691.2	651.0	614.4	548.6	486.4	446.2	435.2
80°	449.8	464.4	493.7	493.7	493.7	475.4	427.9	362.0	321.8	285.3	277.9
82.5°	314.5	329.1	358.4	343.8	340.1	318.2	288.9	237.7	193.8	168.2	160.9
85°	109.7	120.7	146.3	175.5	186.5	182.9	164.6	131.7	102.4	84.1	76.8
87.5°	25.6	25.6	29.3	25.6	25.6	29.3	25.6	25.6	25.6	18.3	14.6
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)