

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: P533798

Luminaire Tested: **GALN-SA9B-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533798  
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-SA9B-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 39744 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

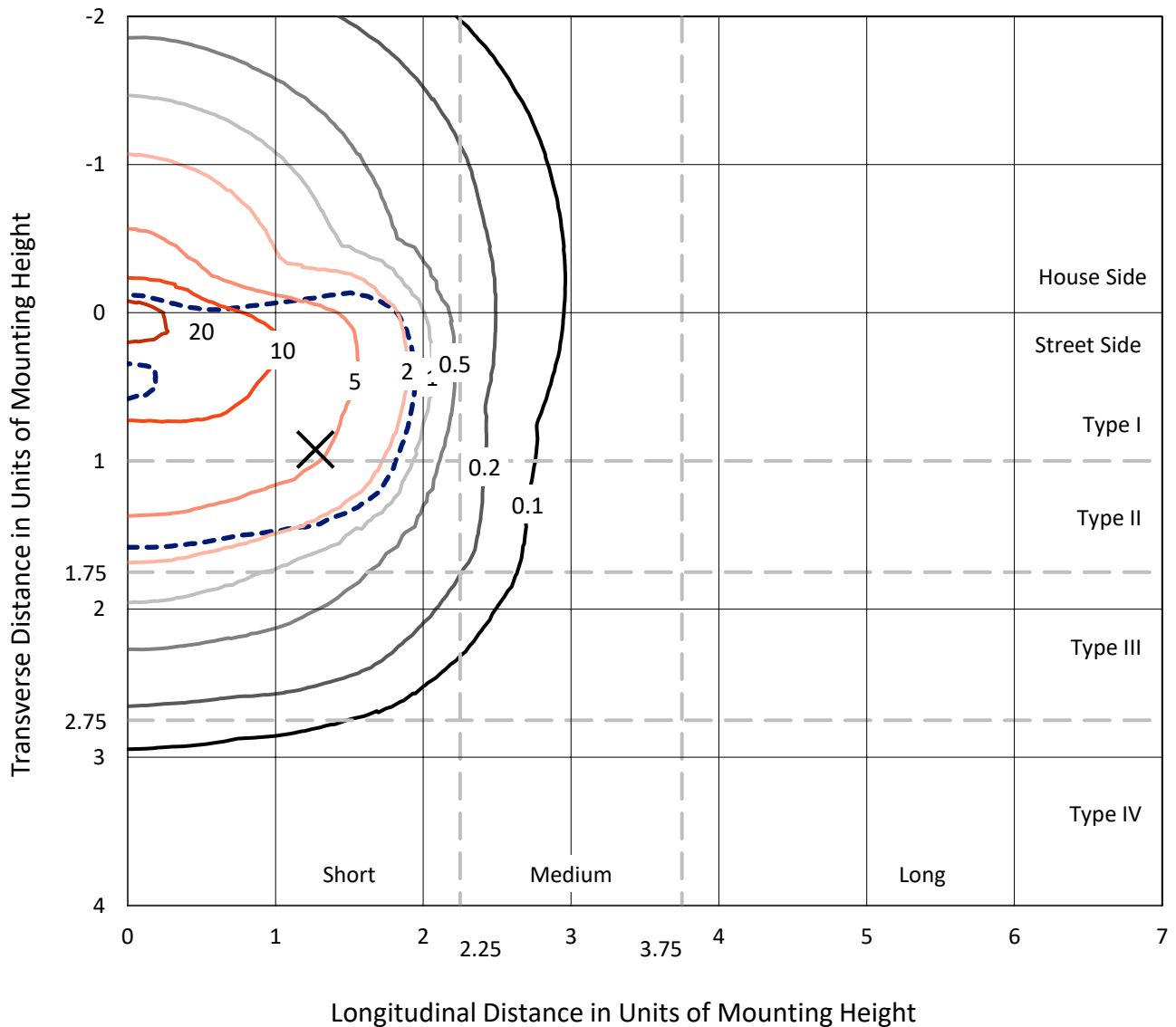
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

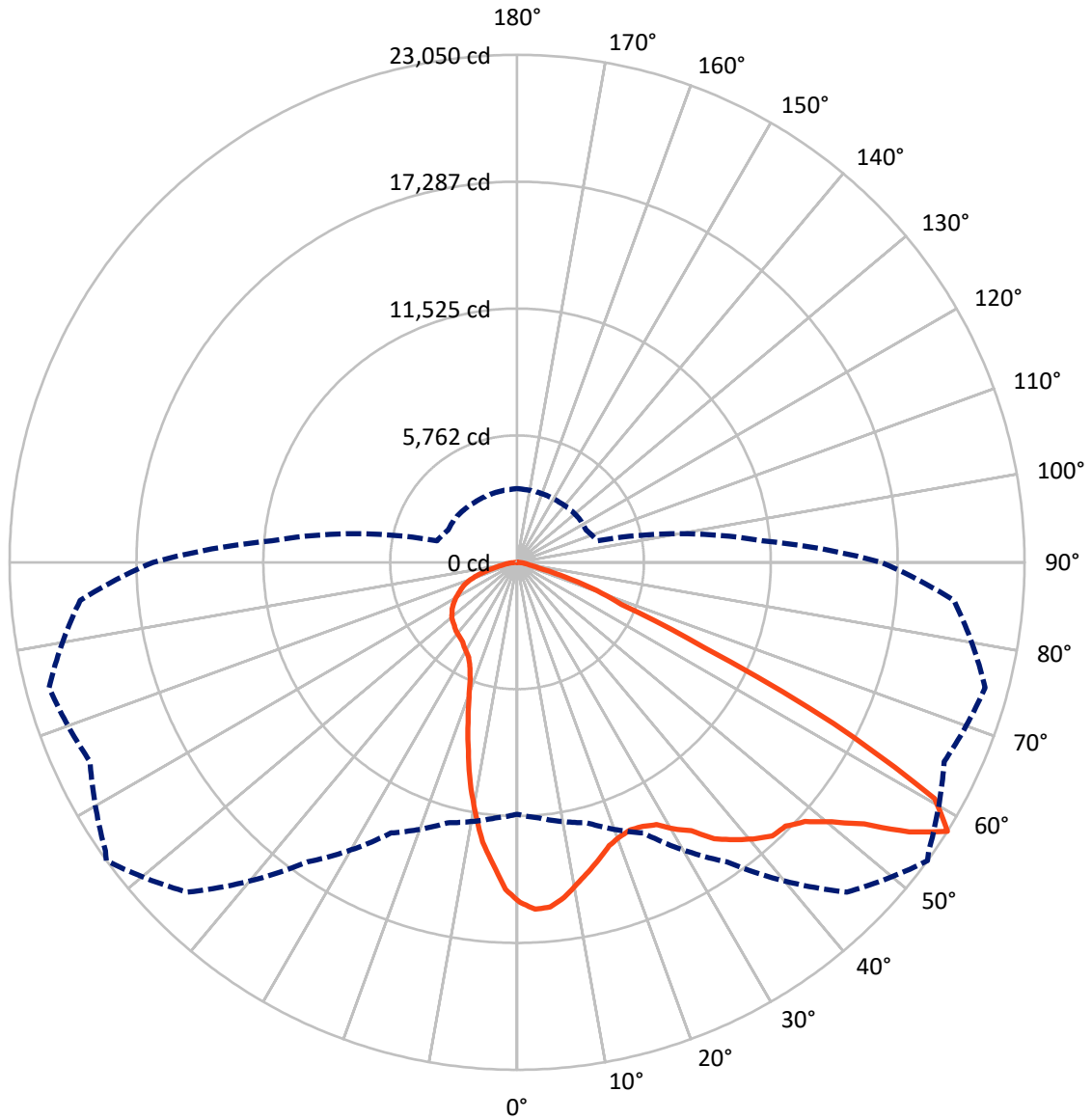
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 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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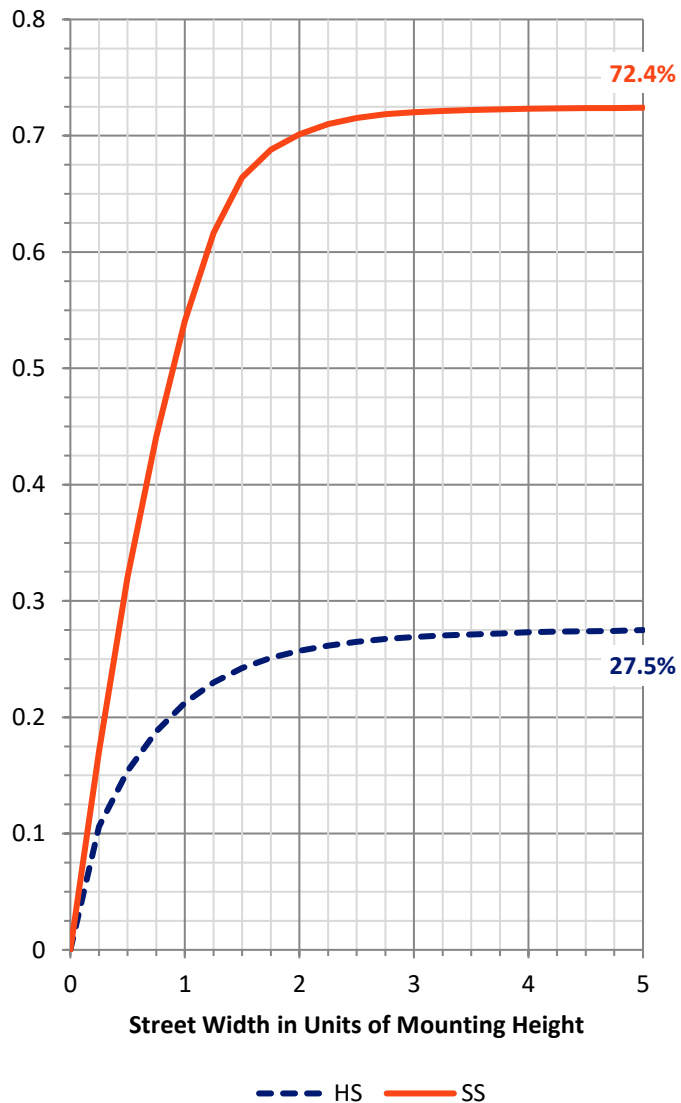
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10995.4	0.0	10995.4
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	28748.6	0.0	28748.6
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	39744.0	0.0	39744.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1332.2	3.4
10°-20°	3084.6	7.8
20°-30°	4333.9	10.9
30°-40°	6058.9	15.2
40°-50°	8202.6	20.6
50°-60°	9991.1	25.1
60°-70°	5203.8	13.1
70°-80°	1333.4	3.4
80°-90°	203.4	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°	39744.0	100.0
0°-180°	39744.0	100.0

**Coefficient of Utilization**

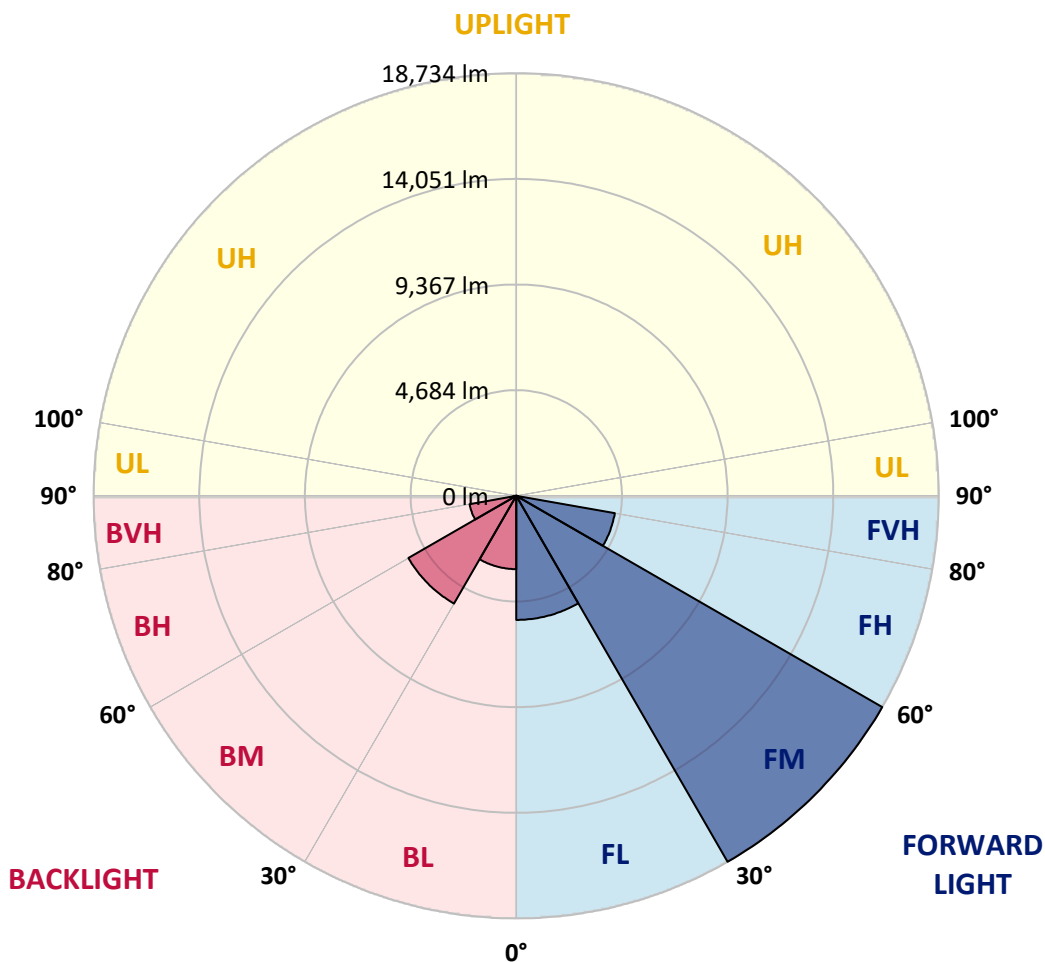


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5501.1	13.8			
FM (30°-60°)	18734.1	47.1			
FH (60°-80°)	4436.5	11.2			G2/5000
FVH (80°-90°)	76.9	0.2			G1/100
BL (0°-30°)	3249.7	8.2	B4/5000		
BM (30°-60°)	5518.5	13.9	B4/8500		
BH (60°-80°)	2100.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	126.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0
2.5°	15887.4	15826.1	15836.3	15918.0	15815.8	15775.0	15775.0	15575.7	15591.1	15453.1	15417.4
5°	15519.6	15376.5	15473.6	15596.2	15616.6	15657.5	15723.9	15672.8	15529.8	15381.6	15141.5
7.5°	14559.2	14686.9	14722.6	14809.5	14993.4	15162.0	15371.4	15228.4	15223.3	15075.1	14932.1
10°	13716.3	13639.6	13833.8	13961.5	14268.0	14548.9	14870.8	14855.5	14932.1	14763.5	14518.3
12.5°	12878.5	12817.2	12909.1	13200.3	13629.4	14038.1	14421.2	14278.2	14686.9	14656.2	14130.1
15°	11989.6	12035.6	12168.4	12439.1	13001.1	13491.5	13976.8	13981.9	14344.6	14467.2	13762.2
17.5°	11366.4	11315.3	11483.9	11887.4	12388.1	12975.5	13527.2	13639.6	14196.5	14268.0	13649.9
20°	10901.5	10973.0	11192.7	11397.0	11974.3	12684.4	13307.6	13348.5	14165.8	14359.9	13471.1
22.5°	10789.1	10748.2	10819.8	11151.8	11626.9	12398.3	13190.1	13343.3	14160.7	14329.3	13133.9
25°	10671.6	10804.4	10799.3	11131.4	11478.8	12168.4	13287.2	13455.7	14431.5	14487.6	13179.9
27.5°	10937.3	10921.9	11065.0	11090.5	11519.6	12229.7	13491.5	13619.2	14881.0	14835.0	13215.6
30°	11202.9	11126.3	11213.1	11514.5	11713.7	12582.2	14053.4	14043.2	15463.4	15432.7	13328.0
32.5°	11529.8	11494.1	11550.3	11815.9	12153.1	13052.2	14528.5	14829.9	16055.9	16250.1	13716.3
35°	11591.1	11739.3	11872.1	12229.7	12709.9	13813.3	15422.5	15672.8	16740.5	17348.4	14457.0
37.5°	11979.4	12035.6	12347.2	12980.6	13420.0	14829.9	15989.5	16147.9	17363.7	18053.4	15238.6
40°	12393.2	12459.6	12929.6	13593.7	14196.5	15494.0	16520.8	16571.9	17562.9	18594.9	15749.4
42.5°	12955.1	13016.4	13481.3	14314.0	15121.1	16061.1	16990.8	17047.0	17547.6	19218.1	16561.7
45°	13537.5	13685.6	14232.2	15177.3	15902.7	16725.2	17098.1	17328.0	17690.7	19774.9	17220.7
47.5°	14354.8	14492.8	14942.3	15866.9	16714.9	17307.5	17593.6	17818.4	18032.9	20260.2	17644.7
50°	15223.3	15248.8	15795.4	16633.2	17256.4	17966.5	18518.2	18594.9	18482.5	20822.2	18365.0
52.5°	15861.8	15943.6	16367.6	17184.9	18114.7	18988.2	19744.3	19826.0	19606.3	21031.6	18610.2
55°	14804.4	14758.4	15448.0	16536.1	18691.9	20510.5	21608.9	21670.2	20423.7	21680.4	19412.2
57.5°	11443.0	11662.7	12250.1	13563.0	16607.7	21184.9	23049.5	22829.8	21404.5	22007.3	19923.1
60°	8316.6	8265.5	8658.9	9537.5	12515.8	18257.7	21792.8	22017.5	20602.5	19836.2	16428.9
62.5°	6773.8	6702.3	6733.0	6763.6	8076.5	12117.3	16132.6	16127.5	15866.9	14257.8	11080.3
65°	5415.0	5583.6	5598.9	5828.8	5997.4	7238.7	9348.5	9849.1	8577.1	7034.4	5103.4
67.5°	4081.7	4020.4	4224.7	5042.1	5358.8	5226.0	5103.4	5159.6	3667.9	2646.2	2492.9
70°	2406.1	2380.6	2625.8	3514.6	4413.7	4153.2	3846.7	3851.8	2518.5	1849.3	2058.7
72.5°	1318.0	1312.9	1364.0	1782.9	2508.3	2605.3	2309.0	2380.6	1501.9	1496.8	1609.2
75°	735.6	720.3	705.0	786.7	904.2	955.3	975.7	985.9	1031.9	1154.5	1200.5
77.5°	270.7	260.5	260.5	301.4	383.1	480.2	607.9	618.1	730.5	837.8	883.8
80°	92.0	102.2	137.9	189.0	255.4	342.3	413.8	424.0	516.0	587.5	602.8
82.5°	56.2	61.3	92.0	132.8	183.9	240.1	306.5	311.6	383.1	429.1	449.5
85°	25.5	30.7	51.1	81.7	117.5	158.4	163.5	163.5	158.4	163.5	153.3
87.5°	0.0	0.0	10.2	10.2	10.2	15.3	20.4	15.3	25.5	30.7	30.7
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°	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0	15448.0
2.5°	15310.1	15253.9	15080.2	14927.0	14881.0	14676.7	14375.3	14411.0	14191.4	14293.5	14186.2
5°	15100.7	14911.6	14467.2	14278.2	13782.7	13557.9	13404.6	13021.5	12842.7	12807.0	12653.7
7.5°	14564.3	14446.8	13890.0	13379.1	12852.9	12403.4	11826.1	11432.8	11151.8	11075.2	10850.4
10°	14140.3	13879.7	13108.4	12331.9	11580.9	10799.3	10048.4	9460.9	9174.8	8842.8	8730.4
12.5°	13721.4	13328.0	12285.9	11289.7	10319.1	9333.2	8423.9	7708.7	7085.5	6937.3	6886.2
15°	13460.8	12776.3	11550.3	10349.8	8970.5	7683.2	6773.8	6303.9	5920.7	5762.4	5874.7
17.5°	13118.6	12321.6	10845.3	9246.3	7729.1	6544.0	5782.8	5491.6	5353.7	5369.0	5323.0
20°	12689.5	11892.5	9920.7	8245.1	6620.6	5675.5	5241.3	5134.0	5154.5	5190.2	5174.9
22.5°	12383.0	11371.5	9251.5	7223.4	5721.5	5195.3	5016.5	4939.9	5006.3	5037.0	5011.4
25°	12148.0	10927.0	8439.2	6319.2	5200.4	4924.6	4842.8	4837.7	4939.9	4980.8	4955.2
27.5°	11933.4	10513.2	7632.1	5629.5	4853.1	4715.1	4689.6	4750.9	4817.3	4858.2	4893.9
30°	11805.7	10196.5	6876.0	5052.3	4679.4	4613.0	4567.0	4623.2	4658.9	4699.8	4679.4
32.5°	11928.3	9971.7	6145.5	4725.3	4536.3	4469.9	4531.2	4495.5	4556.8	4592.5	4536.3
35°	12311.4	9772.5	5624.4	4551.7	4372.9	4398.4	4408.6	4393.3	4418.8	4388.2	4454.6
37.5°	12689.5	9701.0	5144.2	4403.5	4296.2	4296.2	4286.0	4255.4	4306.4	4296.2	4326.9
40°	13169.7	9747.0	4735.6	4245.1	4224.7	4214.5	4173.6	4168.5	4148.1	4153.2	4163.4
42.5°	13588.6	9849.1	4500.6	4143.0	4158.3	4178.7	4102.1	4040.8	4066.3	4015.3	4015.3
45°	14033.0	9941.1	4291.1	4071.5	4056.1	4051.0	3989.7	3954.0	3933.5	3938.6	3984.6
47.5°	14732.9	10073.9	4132.8	3974.4	3984.6	3908.0	3892.7	3846.7	3867.1	3897.8	3902.9
50°	15228.4	10354.9	4010.2	3862.0	3897.8	3846.7	3754.7	3734.3	3734.3	3785.4	3775.2
52.5°	15575.7	10748.2	3892.7	3739.4	3754.7	3713.9	3683.2	3637.2	3606.6	3678.1	3713.9
55°	16638.3	11402.1	3862.0	3637.2	3632.1	3591.3	3535.1	3489.1	3473.8	3484.0	3555.5
57.5°	16536.1	11197.8	3764.9	3458.4	3448.2	3392.0	3335.8	3320.5	3315.4	3325.6	3346.1
60°	13425.1	8270.6	3361.4	3254.1	3238.8	3228.6	3172.4	3111.1	3080.4	3111.1	3085.5
62.5°	8883.6	5537.6	2962.9	3008.9	3019.1	2993.6	2901.6	2840.3	2850.5	2886.3	2830.1
65°	4362.6	3254.1	2687.1	2809.7	2819.9	2748.4	2661.5	2590.0	2554.2	2584.9	2559.3
67.5°	2492.9	2487.8	2462.3	2590.0	2584.9	2513.4	2375.4	2314.1	2252.8	2263.1	2247.7
70°	2114.9	2155.8	2206.9	2283.5	2278.4	2196.6	2033.2	1987.2	1900.4	1890.1	1864.6
72.5°	1665.4	1736.9	1849.3	1905.5	1859.5	1757.3	1650.0	1573.4	1496.8	1450.8	1466.1
75°	1236.3	1338.4	1399.7	1435.5	1364.0	1307.8	1220.9	1129.0	1037.0	996.2	980.8
77.5°	899.1	929.7	985.9	1011.5	965.5	909.3	858.2	766.3	679.4	623.2	607.9
80°	628.3	648.8	689.6	689.6	689.6	664.1	597.7	505.7	449.5	398.5	388.2
82.5°	439.3	459.8	500.6	480.2	475.1	444.4	403.6	332.1	270.7	235.0	224.8
85°	153.3	168.6	204.3	245.2	260.5	255.4	229.9	183.9	143.0	117.5	107.3
87.5°	35.8	35.8	40.9	35.8	35.8	40.9	35.8	35.8	35.8	25.5	20.4
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)