

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: P647136

Luminaire Tested: **GALN-SA8C-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34802.8 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

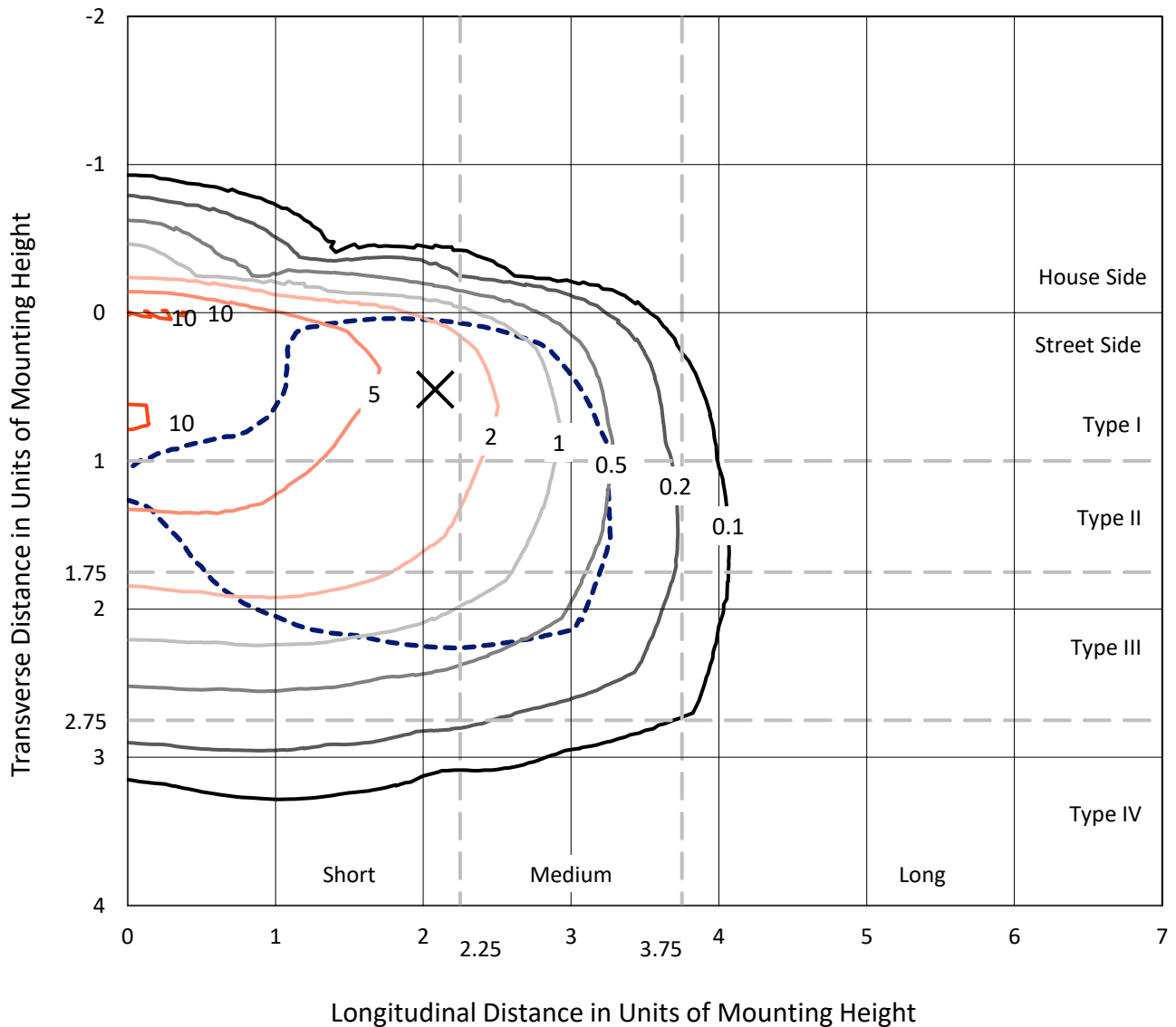
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

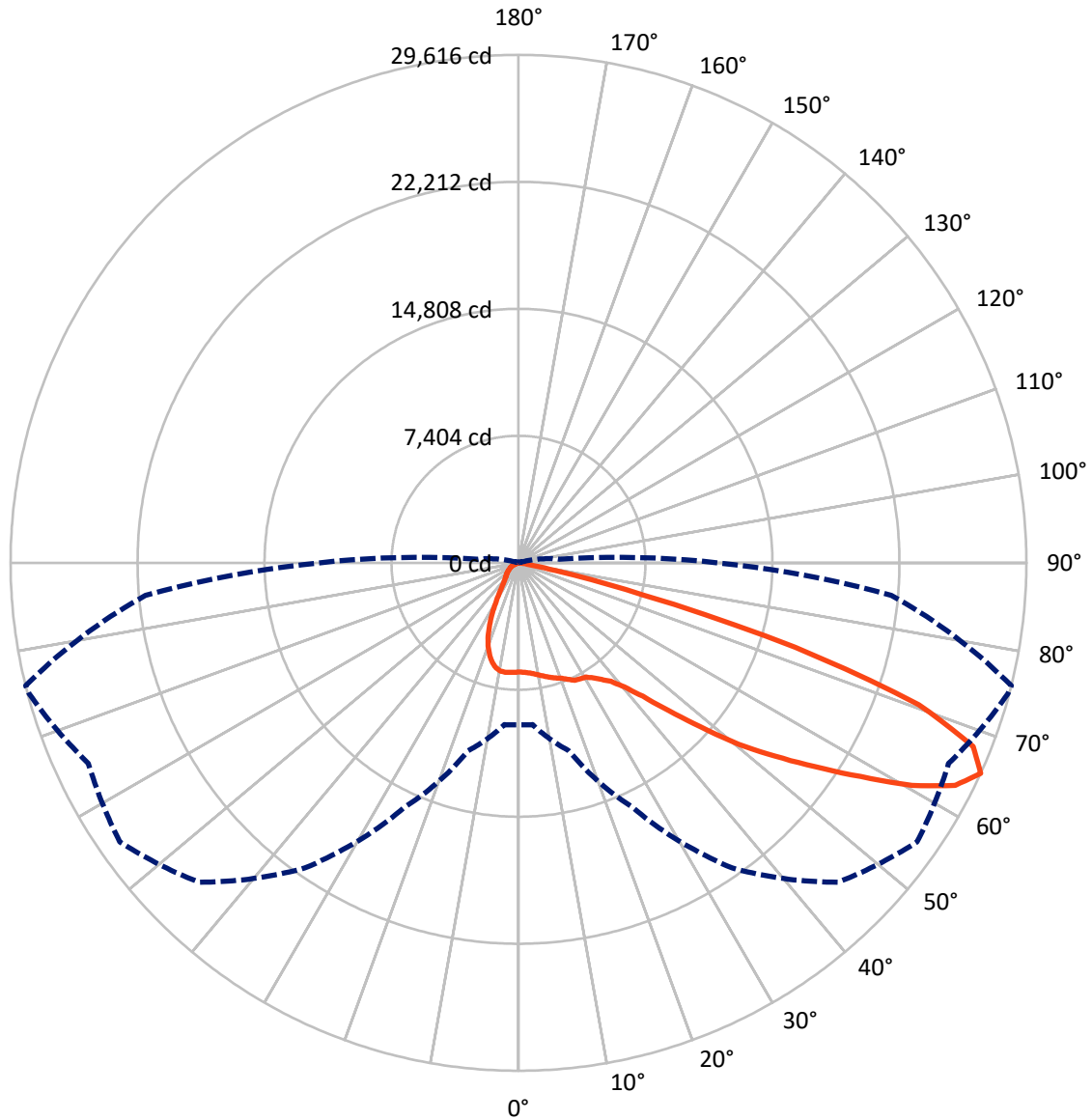
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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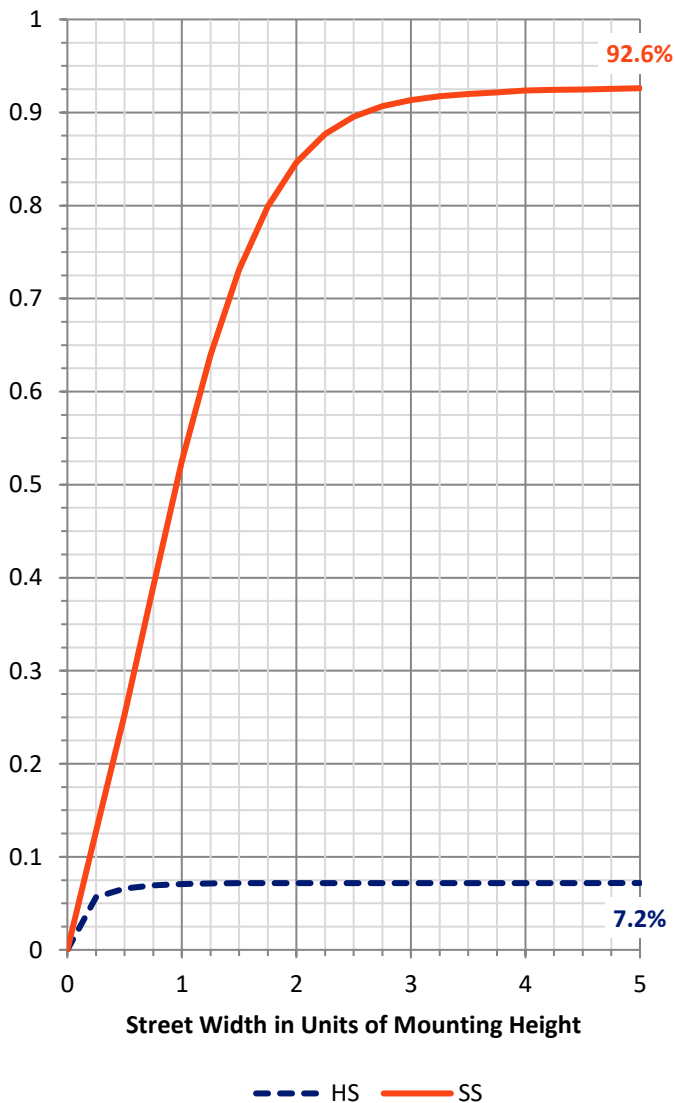
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2513.4	0.0	2513.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	32289.3	0.0	32289.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	34802.8	0.0	34802.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.4	1.5
10°-20°	1167.7	3.4
20°-30°	1881.7	5.4
30°-40°	3271.8	9.4
40°-50°	5406.5	15.5
50°-60°	8351.9	24.0
60°-70°	10198.8	29.3
70°-80°	3870.7	11.1
80°-90°	129.2	0.4
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°	34802.8	100.0
0°-180°	34802.8	100.0

**Coefficient of Utilization**

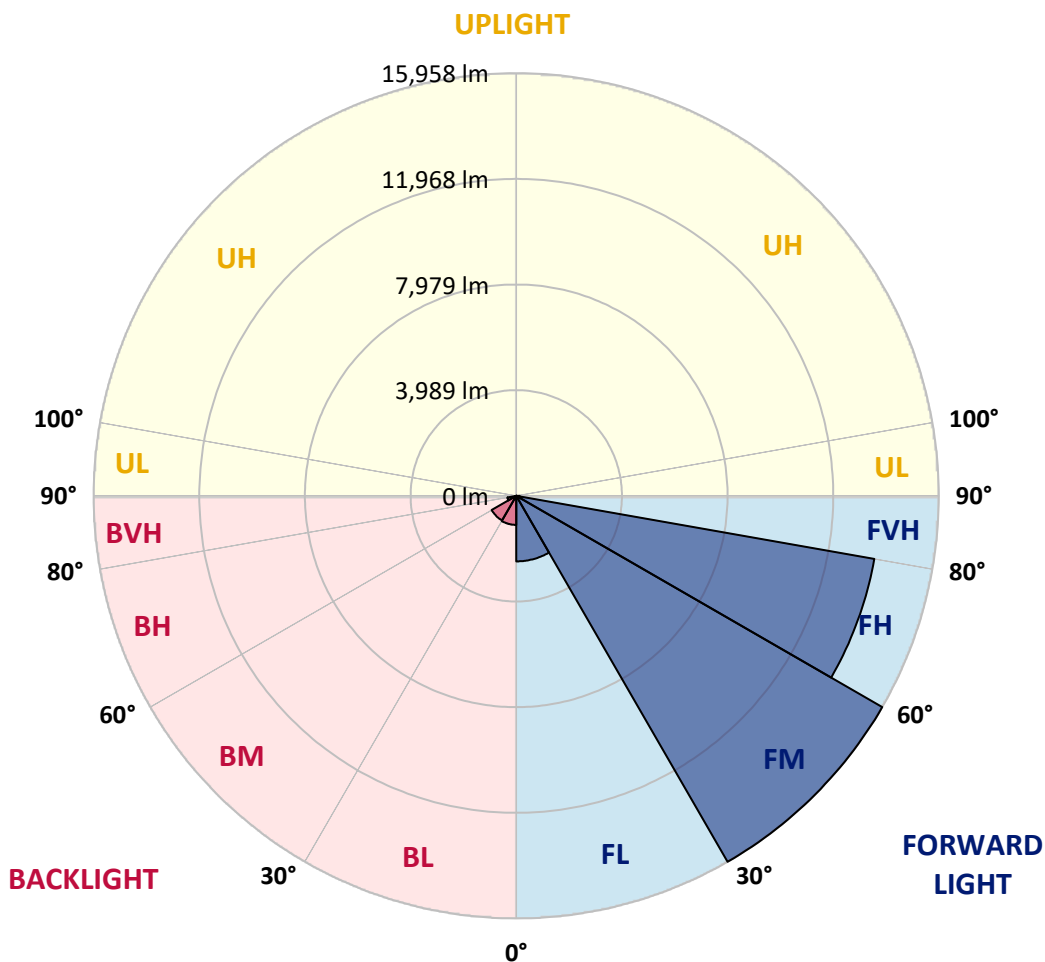


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2475.8	7.1			
FM (30°-60°)	15957.6	45.9			
FH (60°-80°)	13728.5	39.4			G5
FVH (80°-90°)	127.4	0.4			G2/225
BL (0°-30°)	1098.1	3.2	B3/2500		
BM (30°-60°)	1072.6	3.1	B2/2500		
BH (60°-80°)	341.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6
2.5°	6084.0	6086.4	6101.1	6138.0	6194.5	6241.2	6280.5	6344.4	6388.7	6393.6	6408.3
5°	5663.8	5634.3	5663.8	5759.6	5845.6	5975.9	6135.6	6295.3	6437.8	6447.6	6516.4
7.5°	5192.0	5216.6	5263.2	5361.6	5523.8	5722.8	5953.7	6238.8	6509.1	6533.7	6668.8
10°	4712.9	4766.9	4843.1	4993.0	5219.0	5477.0	5791.5	6199.5	6622.1	6656.5	6889.9
12.5°	4270.6	4295.1	4388.5	4590.0	4870.1	5233.8	5668.7	6177.3	6747.4	6789.2	7125.8
15°	3931.4	3963.4	4044.5	4226.3	4538.4	5005.2	5568.0	6170.0	6870.3	6929.2	7361.7
17.5°	3867.6	3887.3	3921.7	4044.5	4317.2	4823.4	5477.0	6167.5	6988.2	7059.4	7580.4
20°	4130.5	4113.3	4078.9	4066.6	4216.5	4683.4	5410.7	6187.2	7101.3	7182.3	7811.4
22.5°	4789.1	4811.1	4609.7	4371.3	4322.2	4661.3	5400.9	6280.5	7280.6	7376.4	8069.4
25°	6187.2	6017.6	5703.1	5133.0	4703.0	4796.4	5511.5	6501.7	7489.5	7595.1	8302.8
27.5°	7732.8	7681.2	7192.2	6253.5	5452.5	5081.4	5708.0	6671.2	7558.3	7666.4	8435.5
30°	9251.3	9312.7	8752.5	7715.5	6541.0	5609.7	5892.3	6735.1	7619.7	7732.8	8605.0
32.5°	10659.2	10733.0	10241.5	9214.4	7823.7	6523.8	6209.3	6983.3	7877.7	7993.2	8887.6
35°	11767.4	11777.3	11406.2	10588.0	9224.2	7634.4	6894.9	7418.2	8226.6	8361.7	9187.4
37.5°	12784.7	12769.9	12335.0	11629.8	10391.4	8737.7	7757.3	7919.5	8624.7	8764.7	9619.9
40°	13539.0	13548.9	13408.8	12745.4	11480.0	9757.4	8440.4	8388.8	9293.0	9511.7	10248.8
42.5°	14042.8	14133.7	14202.4	13865.8	12848.6	11013.1	9489.6	9393.8	10452.8	10634.6	11138.4
45°	14450.7	14612.8	14956.8	14939.6	14163.1	12553.7	10929.5	10733.0	12096.6	12290.8	12271.1
47.5°	14748.0	14912.6	15482.7	15826.7	15399.1	14047.6	12740.4	12570.9	14059.9	14271.3	13521.9
50°	14900.3	15096.9	15824.2	16490.1	16364.8	15487.6	14804.5	14814.3	16431.1	16635.1	14971.6
52.5°	14544.0	14799.6	16006.0	17205.2	17448.4	16866.1	16738.3	17062.6	18541.8	18716.3	16281.2
55°	13406.4	13728.3	15757.9	17814.5	18704.0	18492.7	18935.0	19428.9	20849.1	20962.2	17625.3
57.5°	12686.4	13027.9	15025.6	18333.0	20212.8	20537.1	21237.4	21598.6	23230.1	23517.6	19168.4
60°	12079.5	12347.3	14423.6	18443.6	21746.0	23038.4	23719.1	24092.6	26168.9	26355.6	20866.3
62.5°	11069.6	11376.8	13406.4	17672.0	22517.5	25041.0	26451.5	26284.4	28441.8	28572.1	21908.2
65°	9445.4	9472.4	11342.3	15733.3	21721.4	26340.9	28370.5	27670.3	29527.9	29616.3	21827.1
67.5°	7049.7	7310.1	8725.4	12366.9	18347.7	25230.3	28992.2	27707.1	28842.4	28596.6	20094.8
70°	4540.9	4739.9	5914.4	8575.6	13229.4	21055.5	26930.7	25807.7	25313.8	24768.3	16448.3
72.5°	2095.9	2351.5	3513.8	4899.6	7845.7	14998.6	21861.5	20967.1	18219.9	16873.4	10455.2
75°	914.1	978.0	1734.7	2584.9	3678.4	7931.8	14413.8	13015.7	8229.1	7516.5	4184.6
77.5°	557.8	599.5	909.1	1385.8	1444.8	3022.3	7764.7	5678.6	2543.2	2243.4	1135.2
80°	378.4	425.1	661.0	724.9	493.9	842.8	2914.2	1516.0	513.6	491.4	243.3
82.5°	184.3	233.4	489.0	405.4	213.8	270.3	847.8	324.3	149.9	140.1	86.0
85°	27.0	46.7	275.2	265.4	95.8	63.9	149.9	81.1	51.6	49.2	39.3
87.5°	0.0	0.0	93.3	41.7	9.9	9.9	17.2	17.2	19.7	17.2	19.7
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°	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6	6366.6
2.5°	6415.7	6428.0	6381.3	6315.0	6243.7	6172.4	6071.7	5980.8	5926.7	5958.6	5880.0
5°	6531.2	6521.4	6398.5	6197.0	5929.2	5607.3	5287.8	5015.1	4926.6	4793.9	4779.2
7.5°	6690.9	6663.9	6403.4	5941.5	5337.0	4732.5	4142.8	3752.1	3528.5	3339.3	3344.2
10°	6914.5	6835.8	6346.9	5491.8	4496.6	3585.0	2833.1	2317.1	2093.5	2022.3	1965.7
12.5°	7145.5	6993.1	6189.6	4884.9	3501.5	2449.8	1722.4	1408.0	1270.3	1226.1	1221.2
15°	7351.9	7111.0	5914.4	4155.1	2545.6	1565.2	1174.5	1071.3	1054.2	1056.6	1054.2
17.5°	7555.8	7204.5	5533.5	3381.1	1729.9	1122.9	1009.9	985.3	992.7	1002.6	1000.0
20°	7725.4	7224.1	5047.1	2580.1	1223.7	985.3	948.4	943.6	951.0	958.3	958.3
22.5°	7909.6	7238.8	4469.6	1786.3	1000.0	916.5	896.8	896.8	906.7	916.5	919.0
25°	8047.3	7157.7	3779.1	1282.6	882.1	850.2	840.3	842.8	852.6	857.5	855.1
27.5°	8069.4	6929.2	3046.9	982.9	801.0	769.1	759.3	769.1	756.8	764.2	759.3
30°	8089.0	6639.3	2304.8	828.1	727.3	678.2	663.4	648.7	638.8	626.6	624.1
32.5°	8150.5	6297.7	1683.1	744.6	658.5	604.5	570.1	528.3	496.3	486.6	484.1
35°	8177.5	5887.4	1236.0	678.2	597.1	538.2	476.7	417.7	371.1	353.8	366.1
37.5°	8280.7	5489.3	958.3	629.1	543.0	469.3	390.7	317.0	272.7	262.9	267.9
40°	8492.0	5056.8	803.5	587.2	496.3	405.4	309.6	238.3	208.8	199.0	196.6
42.5°	8831.1	4626.8	715.0	547.9	449.7	341.5	243.3	186.7	162.2	154.8	154.8
45°	9243.9	4214.0	653.6	506.2	400.5	275.2	191.7	149.9	135.1	130.2	130.2
47.5°	9787.0	3852.8	602.0	464.4	346.5	218.7	154.8	130.2	120.4	122.9	125.3
50°	10337.3	3585.0	545.5	417.7	285.0	179.4	132.7	115.5	113.1	115.5	115.5
52.5°	10752.6	3427.7	469.3	353.8	223.6	149.9	117.9	108.1	105.6	100.8	100.8
55°	11312.9	3393.4	373.5	287.5	176.9	125.3	105.6	98.3	90.9	86.0	83.5
57.5°	12032.8	3432.7	287.5	223.6	137.6	103.2	93.3	81.1	71.3	61.5	61.5
60°	12480.0	3344.2	223.6	172.0	100.8	83.5	71.3	59.0	46.7	39.3	36.9
62.5°	12337.5	2970.7	176.9	127.8	71.3	61.5	46.7	39.3	27.0	19.7	17.2
65°	11602.8	2398.2	142.5	88.5	51.6	36.9	24.6	24.6	12.3	2.4	0.0
67.5°	10155.5	1776.5	113.1	59.0	29.5	17.2	12.3	7.4	0.0	0.0	0.0
70°	8266.0	1282.6	88.5	36.9	17.2	12.3	4.9	2.4	0.0	0.0	0.0
72.5°	5248.5	734.7	68.8	22.1	12.3	4.9	0.0	0.0	0.0	0.0	0.0
75°	2029.6	287.5	46.7	14.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	575.0	135.1	27.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	149.9	59.0	14.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.3	24.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.7	9.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)