

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: P650988

Luminaire Tested: **GALN-SA6C-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34768.6 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

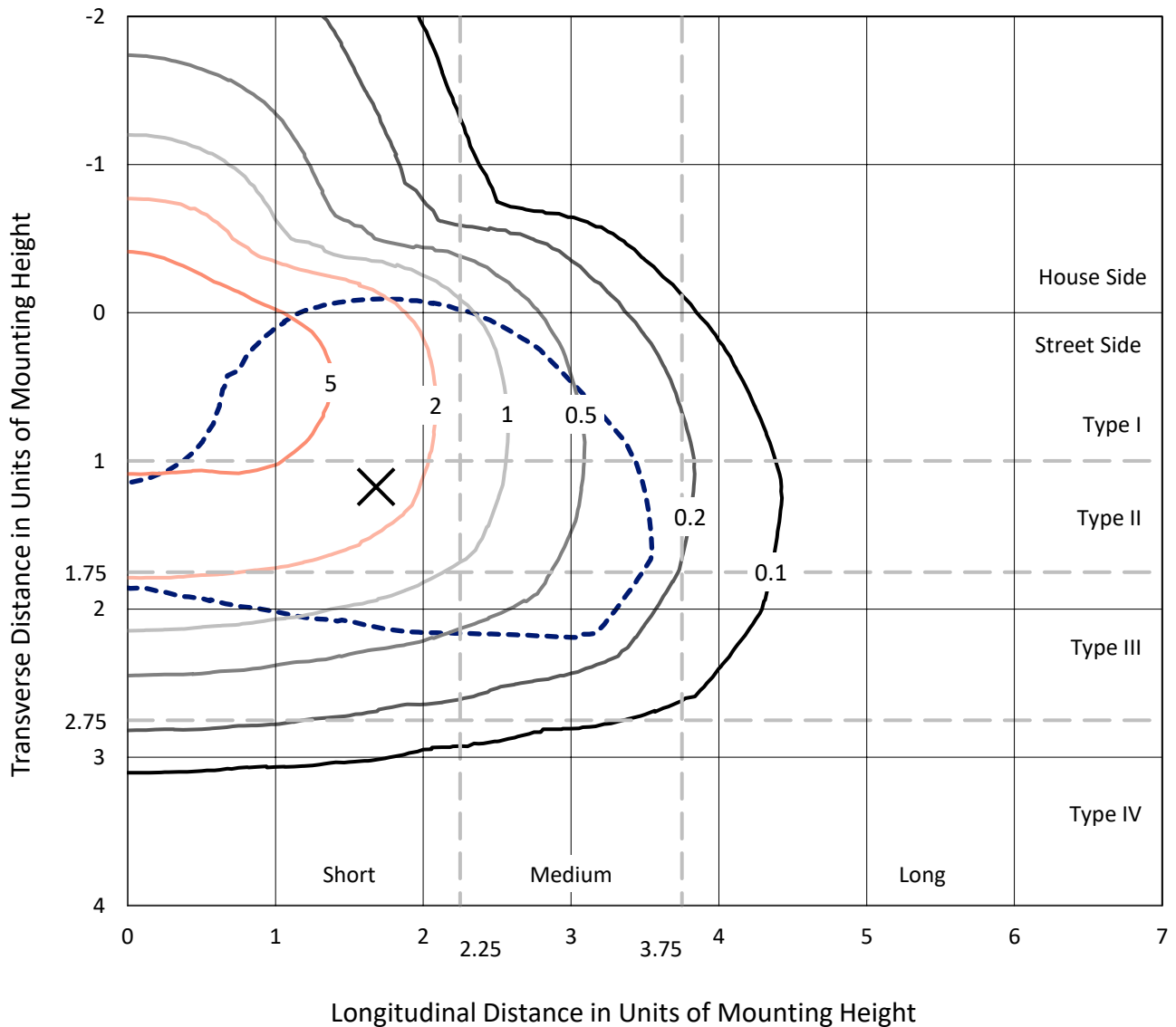
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

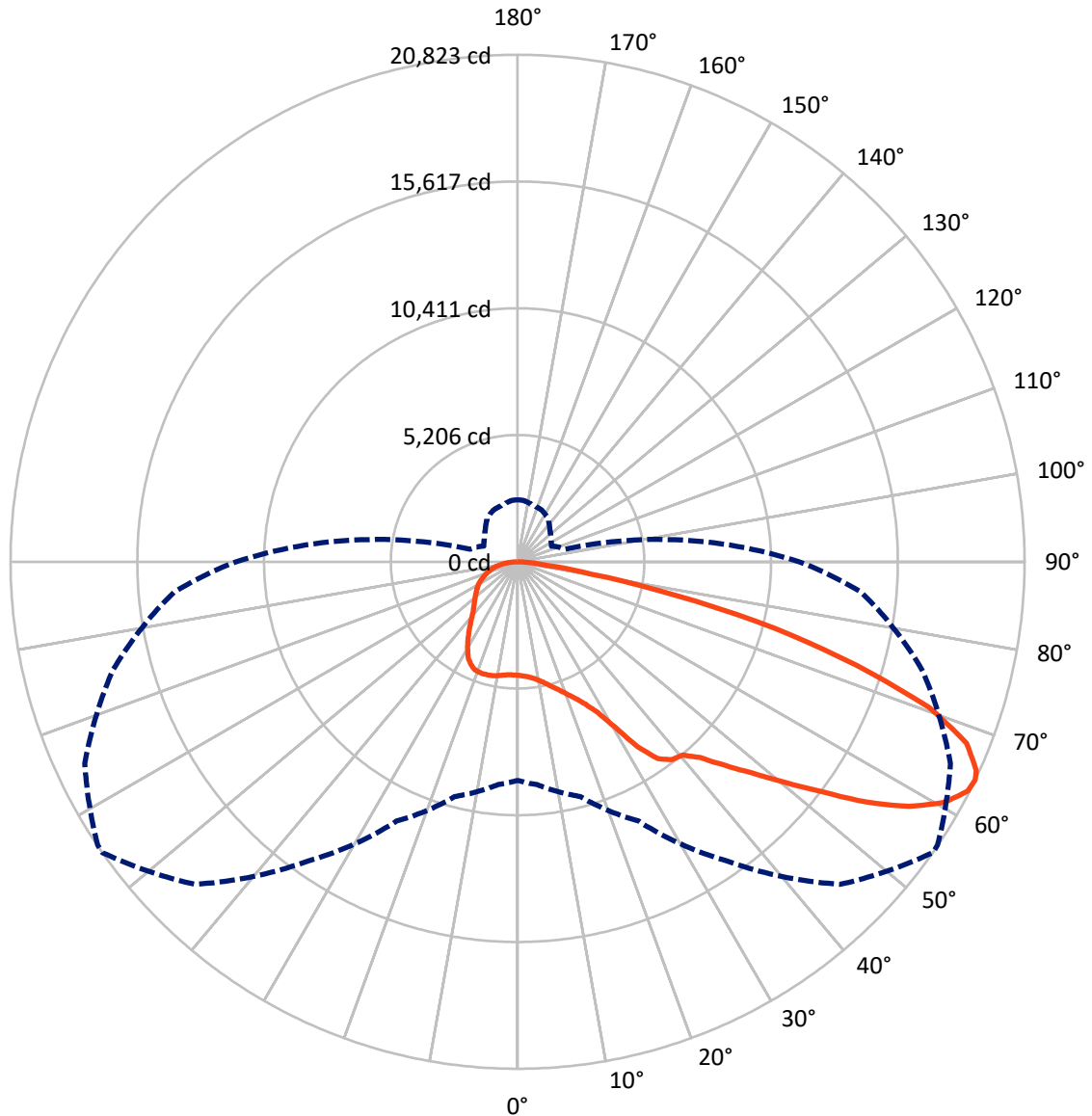
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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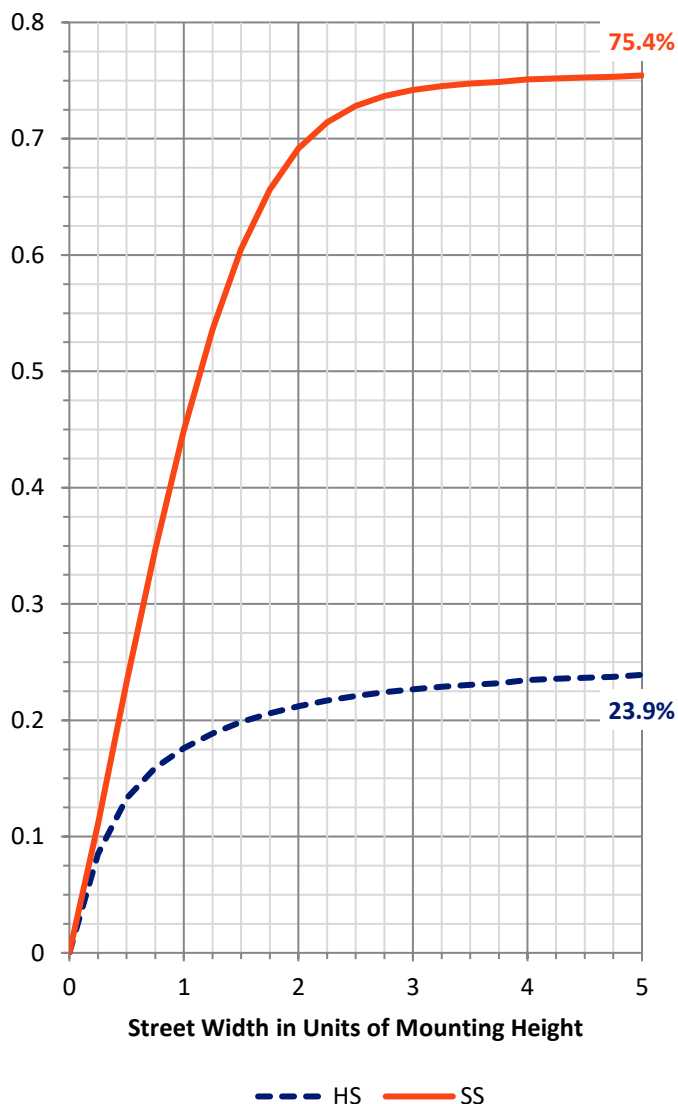
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8446.0	0.0	8446.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	26322.6	0.0	26322.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	34768.6	0.0	34768.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.8	1.3
10°-20°	1431.8	4.1
20°-30°	2549.0	7.3
30°-40°	3921.8	11.3
40°-50°	5559.5	16.0
50°-60°	8047.3	23.1
60°-70°	8328.1	24.0
70°-80°	3900.0	11.2
80°-90°	577.4	1.7
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°	34768.6	100.0
0°-180°	34768.6	100.0

Coefficient of Utilization

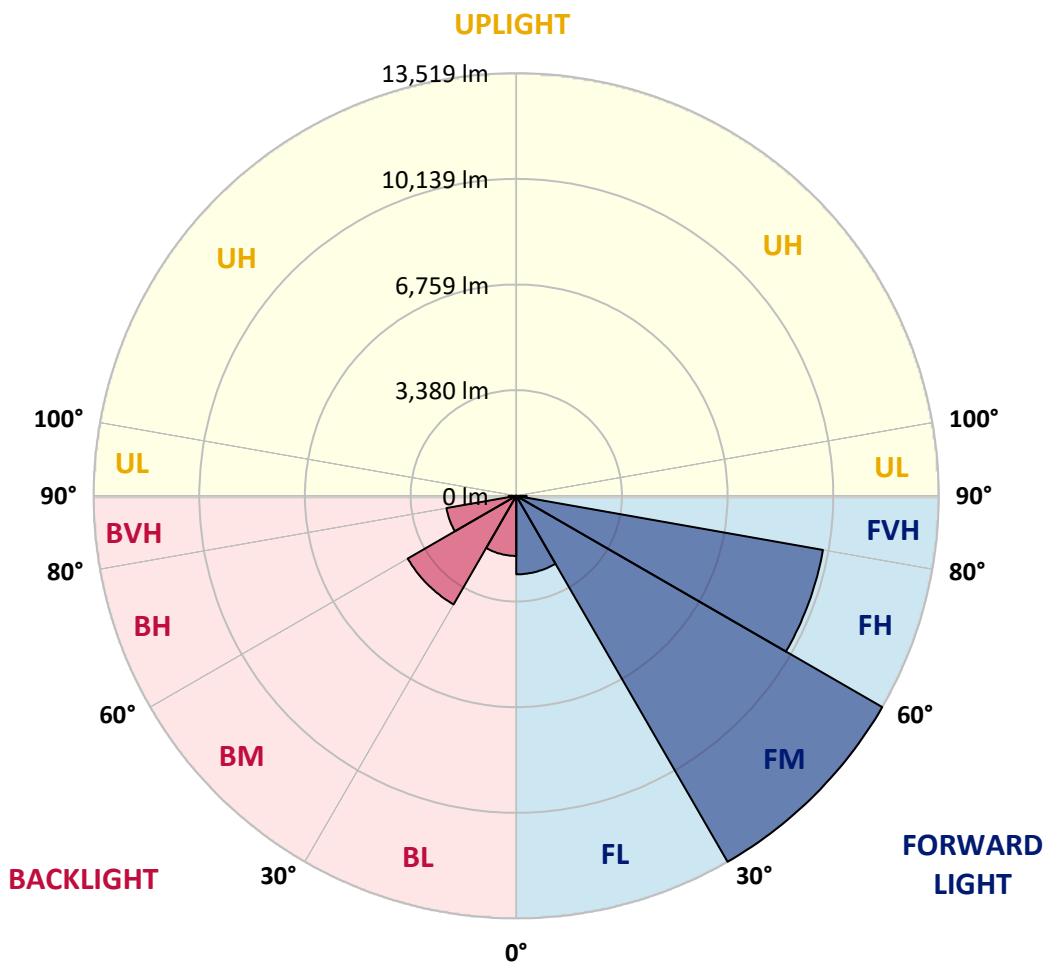


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2510.8	7.2			
FM (30°-60°)	13519.0	38.9			
FH (60°-80°)	9962.2	28.7			G4/12000
FVH (80°-90°)	330.6	1.0			G3/500
BL (0°-30°)	1923.7	5.5	B3/2500		
BM (30°-60°)	4009.6	11.5	B3/5000		
BH (60°-80°)	2265.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	246.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9
2.5°	4717.3	4715.3	4721.1	4715.3	4719.2	4705.6	4699.8	4703.6	4697.8	4688.2	4670.7
5°	4775.4	4773.4	4775.4	4767.6	4771.5	4763.8	4750.1	4754.1	4744.3	4723.1	4697.8
7.5°	4874.2	4866.4	4866.4	4864.5	4856.8	4845.2	4835.4	4831.5	4821.9	4794.7	4756.0
10°	5002.1	5002.1	5004.0	4988.6	4998.2	4977.0	4967.2	4965.3	4932.4	4897.5	4843.2
12.5°	5170.7	5180.4	5174.6	5166.9	5163.0	5155.2	5122.3	5130.0	5093.2	5033.1	4967.2
15°	5380.0	5395.5	5385.8	5382.0	5372.3	5343.2	5329.7	5323.9	5275.4	5188.2	5101.0
17.5°	5657.2	5637.8	5630.1	5620.4	5579.7	5558.3	5535.1	5531.2	5488.5	5385.8	5250.2
20°	5899.4	5926.6	5911.1	5901.4	5860.7	5820.0	5802.6	5796.8	5759.9	5647.5	5430.4
22.5°	6188.2	6194.0	6199.9	6176.6	6157.2	6126.2	6095.1	6085.5	6071.9	5955.6	5690.1
25°	6496.4	6519.6	6500.3	6477.0	6453.7	6451.8	6480.8	6477.0	6471.2	6358.8	6035.1
27.5°	6998.3	7019.7	7025.5	7000.2	6911.1	6918.8	6984.8	7006.0	7095.2	6909.2	6478.9
30°	7281.3	7302.6	7351.0	7446.0	7587.5	7711.5	7870.4	7918.9	8004.1	7653.4	7006.0
32.5°	7455.7	7463.5	7550.7	7727.0	8151.5	8614.6	9046.8	9064.3	9118.5	8626.3	7488.7
35°	7730.9	7736.7	7806.5	8000.3	8498.4	9269.8	9938.3	9959.6	9915.1	8928.6	7713.5
37.5°	8070.1	8085.5	8130.1	8291.0	8886.0	9818.2	10308.6	10293.0	9897.6	9168.9	8110.8
40°	8564.2	8564.2	8511.9	8729.0	9294.9	10132.1	10438.4	10411.2	10306.5	9864.7	8715.5
42.5°	9000.3	8992.6	9116.6	9263.9	9806.6	10616.7	10983.0	11027.5	11200.0	10738.7	9403.5
45°	9568.1	9603.0	9672.8	9940.3	10676.7	11444.2	11917.1	11959.8	12203.9	11767.9	10207.7
47.5°	10141.9	10153.5	10372.5	10729.1	11754.3	12566.4	12953.9	13023.7	13246.6	12971.4	11074.0
50°	10548.8	10659.3	11010.1	11572.2	12864.8	13934.6	14237.0	14320.3	14713.7	14281.5	12083.7
52.5°	10979.1	11087.6	11515.9	12372.5	14140.1	15333.9	15706.0	15762.2	16171.2	15607.2	13116.7
55°	11347.3	11448.1	11934.5	13081.8	15155.6	16762.2	17436.7	17370.8	17566.6	16628.5	13913.3
57.5°	11407.4	11488.8	12101.2	13535.4	15919.2	17987.1	18954.2	18993.0	18766.2	17392.1	14570.3
60°	10942.3	11108.9	11812.4	13486.9	16262.2	18839.8	20086.0	20113.1	19469.7	17783.6	14832.0
62.5°	10118.6	10101.2	10951.9	12707.8	15781.6	19033.7	20752.7	20723.7	19744.9	17595.6	14578.1
64°	8981.0	9190.3	9984.9	11750.5	15006.4	18735.2	20822.5	20806.9	19613.1	17204.1	14145.9
65°	8287.1	8275.5	9060.4	10967.5	14235.0	18285.5	20698.4	20677.1	19338.0	16853.3	13810.6
67.5°	5982.8	6009.9	6785.1	8463.5	11572.2	16527.8	19890.2	19810.8	18252.6	15690.5	12535.4
70°	3624.2	3639.7	4248.2	5614.5	8306.5	13361.0	17928.9	17932.8	16591.7	13954.0	10669.0
72.5°	1909.0	1949.7	2193.9	3188.1	5044.7	9374.4	14545.1	14890.1	14244.7	11909.3	8428.6
75°	1062.0	1067.9	1240.4	1571.7	2573.7	5246.3	10932.6	11031.4	11277.6	9585.6	6232.8
77.5°	810.1	821.7	876.0	1015.5	1401.2	2432.3	6616.5	7112.7	7948.0	6758.0	3556.3
80°	657.0	668.6	715.1	798.4	932.2	1153.2	3073.8	3341.2	4254.0	3000.1	1387.6
82.5°	511.7	503.9	564.0	618.2	678.4	682.2	1261.7	1395.4	1732.6	1290.8	600.8
85°	379.9	379.9	428.3	416.7	438.0	399.2	556.2	614.4	693.8	548.5	279.0
87.5°	151.1	166.7	281.0	252.0	195.8	157.0	205.5	217.1	240.4	215.1	116.3
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°	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9	4664.9
2.5°	4672.7	4678.5	4664.9	4655.2	4651.3	4645.5	4639.7	4641.6	4649.4	4657.1	4655.2
5°	4695.9	4697.8	4674.6	4662.9	4655.2	4647.5	4647.5	4653.3	4668.8	4680.4	4680.4
7.5°	4754.1	4754.1	4721.1	4699.8	4688.2	4674.6	4670.7	4672.7	4684.3	4699.8	4701.7
10°	4845.2	4837.3	4794.7	4761.8	4740.5	4707.5	4678.5	4662.9	4668.8	4678.5	4678.5
12.5°	4955.6	4934.3	4880.0	4835.4	4783.1	4721.1	4661.0	4630.0	4628.1	4637.8	4633.9
15°	5073.8	5050.5	4975.0	4893.6	4802.5	4711.5	4639.7	4595.1	4560.2	4550.6	4571.8
17.5°	5211.4	5163.0	5058.4	4945.9	4810.3	4692.0	4579.7	4488.5	4426.5	4409.1	4414.9
20°	5378.1	5314.1	5172.7	4996.3	4804.5	4622.3	4447.8	4325.8	4224.9	4194.0	4197.9
22.5°	5608.7	5498.3	5290.9	5021.5	4756.0	4490.4	4248.2	4089.3	3967.2	3918.7	3947.8
25°	5870.3	5750.2	5403.3	5015.7	4630.0	4279.3	4011.7	3804.4	3693.9	3622.2	3637.7
27.5°	6230.9	6017.7	5523.4	4963.3	4449.8	4021.5	3711.4	3515.6	3414.9	3378.0	3395.5
30°	6692.1	6364.6	5653.3	4821.9	4164.9	3695.9	3409.1	3281.2	3221.0	3174.5	3190.1
32.5°	7025.5	6608.7	5682.4	4583.5	3856.7	3399.3	3203.6	3108.7	3042.7	2998.2	3007.8
35°	7263.8	6816.1	5668.8	4290.9	3535.0	3155.2	3040.8	2963.3	2856.7	2759.8	2742.3
37.5°	7583.6	7075.8	5569.9	3971.0	3217.2	2990.4	2909.0	2765.6	2612.5	2482.6	2476.8
40°	8073.9	7380.1	5358.7	3595.1	2945.9	2868.3	2769.5	2583.5	2418.7	2314.0	2306.3
42.5°	8579.8	7661.2	5071.9	3199.8	2723.0	2740.4	2620.2	2436.1	2335.4	2267.5	2259.8
45°	9198.0	7965.4	4761.8	2856.7	2558.2	2620.2	2490.4	2383.8	2323.8	2279.2	2267.5
47.5°	9866.6	8277.5	4413.0	2548.6	2418.7	2509.8	2436.1	2387.7	2354.7	2323.8	2310.1
50°	10587.6	8626.3	4085.4	2300.5	2292.7	2395.4	2430.3	2412.9	2393.5	2383.8	2372.2
52.5°	11378.3	8982.9	3810.2	2126.0	2182.2	2314.0	2432.3	2445.8	2445.8	2440.0	2432.3
55°	11913.2	9231.0	3531.1	1984.6	2069.9	2248.2	2428.4	2480.7	2500.1	2492.3	2484.6
57.5°	12308.6	9366.6	3180.3	1862.5	1974.9	2184.2	2407.0	2484.6	2504.0	2513.7	2509.8
60°	12389.9	9240.7	2721.1	1734.6	1872.2	2091.1	2329.6	2426.5	2451.6	2511.7	2517.5
62.5°	12023.7	8853.0	2263.6	1608.6	1746.2	1949.7	2224.9	2360.5	2411.0	2504.0	2513.7
64°	11574.1	8418.9	2009.7	1529.1	1664.8	1870.2	2172.6	2343.1	2409.0	2533.0	2540.8
65°	11244.6	8103.0	1850.9	1478.7	1612.4	1817.9	2143.5	2348.9	2426.5	2577.6	2589.3
67.5°	10031.4	7015.8	1531.0	1360.5	1488.4	1728.8	2149.3	2397.4	2422.6	2595.1	2593.1
70°	8300.7	5585.5	1283.0	1252.0	1368.3	1657.0	2126.0	2319.8	2321.7	2436.1	2409.0
72.5°	6215.3	4128.0	1112.5	1139.6	1234.5	1486.5	2007.8	2215.2	2182.2	2197.8	2170.6
75°	4269.5	2730.7	957.4	1019.4	1095.0	1314.0	1841.1	2011.7	1959.4	1940.0	1920.6
77.5°	2279.2	1509.8	796.5	901.2	951.6	1135.7	1606.6	1771.4	1717.2	1641.5	1616.3
80°	922.5	711.2	641.5	746.1	775.2	914.8	1337.3	1440.0	1399.3	1267.5	1224.8
82.5°	463.2	426.4	503.9	587.3	589.2	653.1	994.2	1091.1	1000.0	839.1	802.3
85°	242.3	250.0	346.9	412.8	364.3	352.7	596.9	660.9	606.6	527.1	474.8
87.5°	87.2	100.8	182.2	180.2	127.9	67.9	131.8	63.9	34.9	21.3	27.2
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)