

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: P531750

Luminaire Tested: **GALN-SA7A-740-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-740-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26718 lumens  
Efficiency: N/A  
Efficacy: 124.3 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

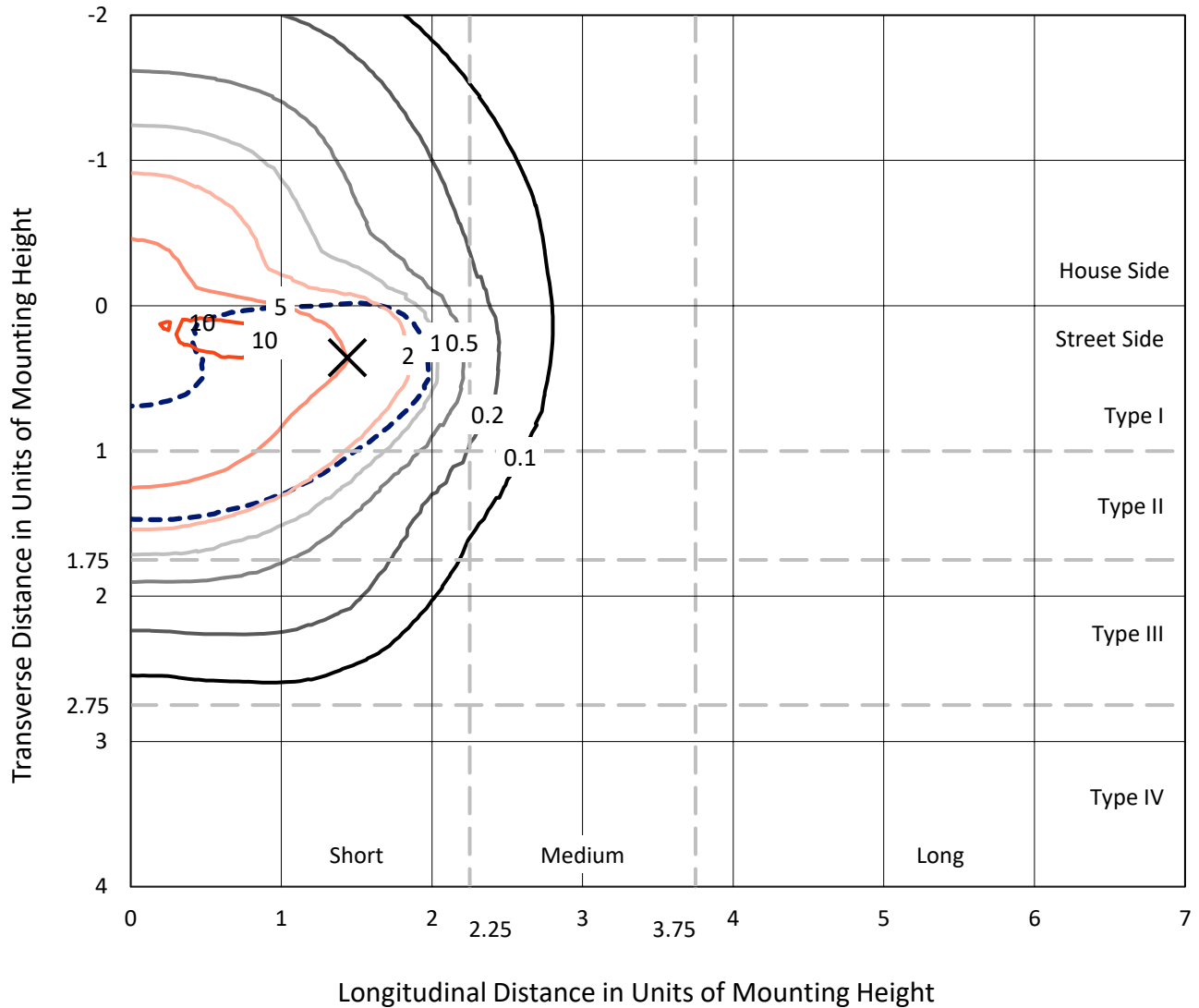
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

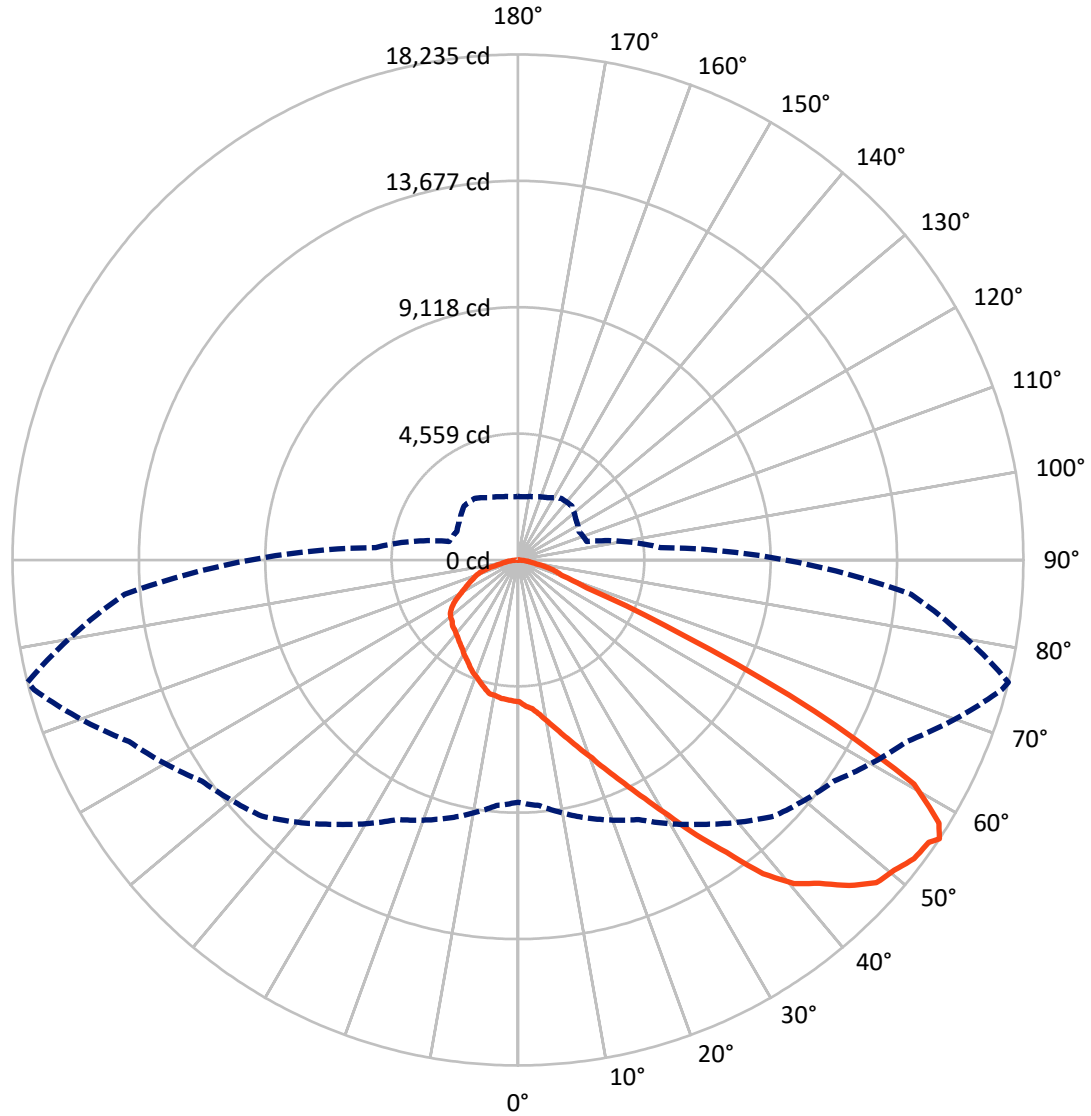
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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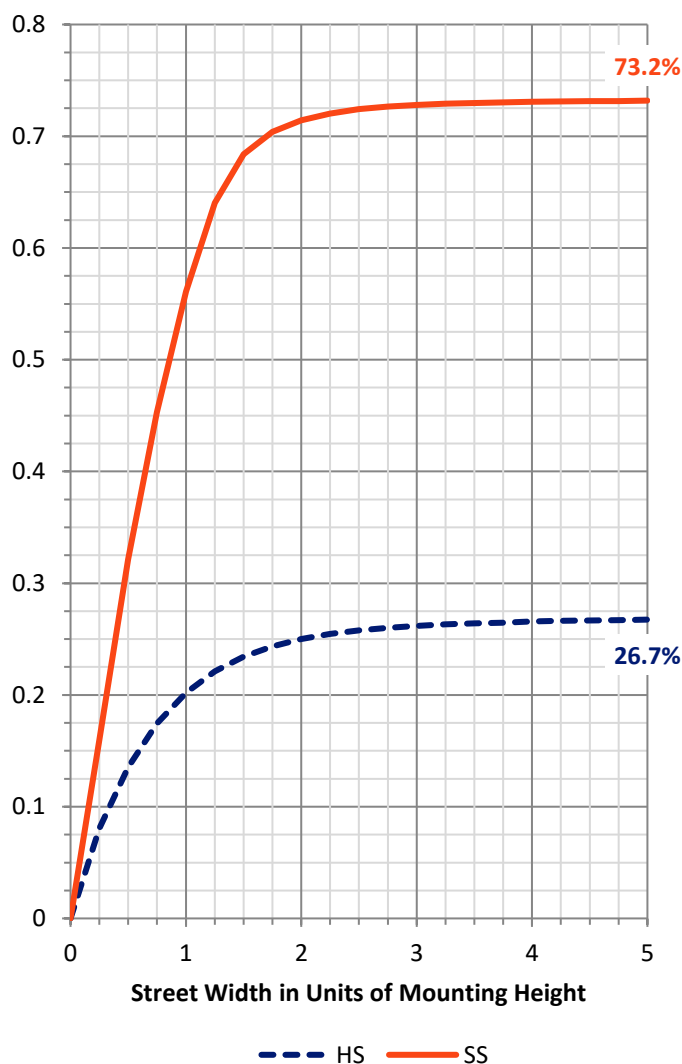
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7183.7	0.0	7183.7
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	19534.3	0.0	19534.3
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	26718.0	0.0	26718.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.0	1.9
10°-20°	1592.5	6.0
20°-30°	2785.2	10.4
30°-40°	4360.8	16.3
40°-50°	6343.7	23.7
50°-60°	6972.1	26.1
60°-70°	3112.0	11.6
70°-80°	898.9	3.4
80°-90°	145.8	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°	26718.0	100.0
0°-180°	26718.0	100.0

**Coefficient of Utilization**



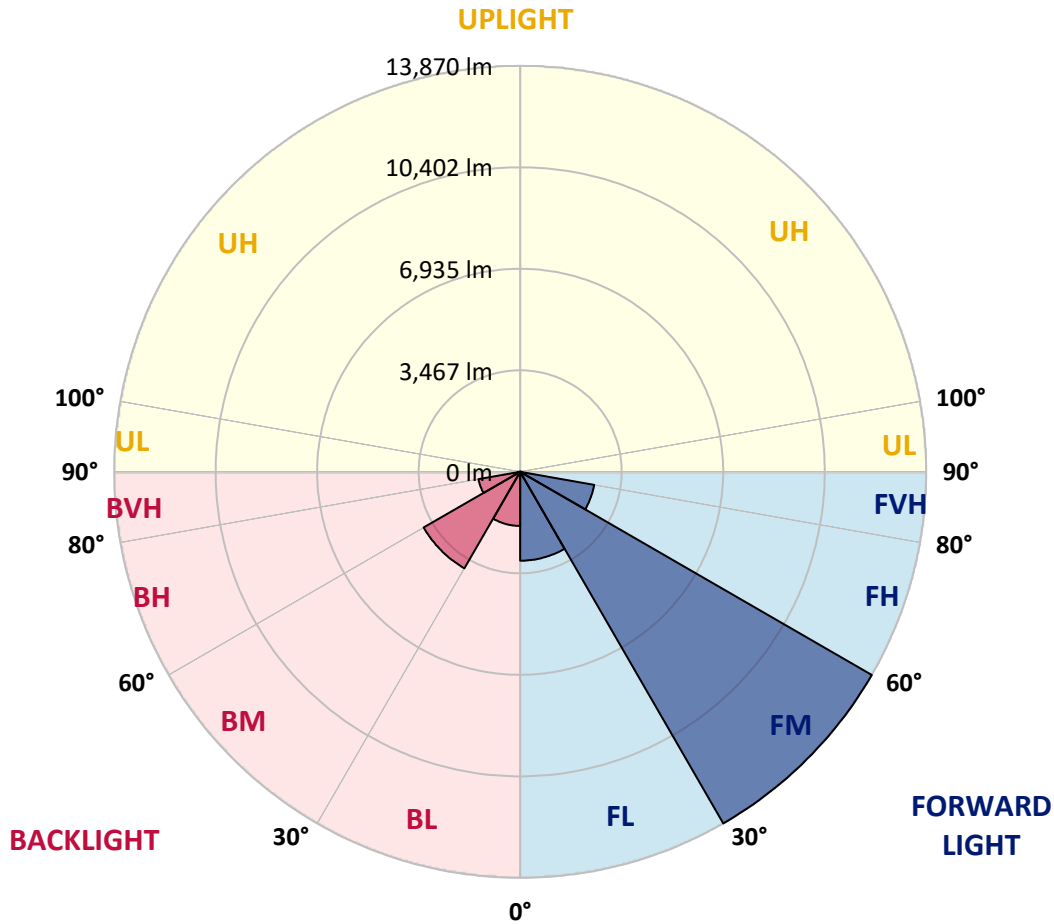
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 CATALOG NUMBER: GALN-SA7A-740-U-T2-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3036.2	11.4			
FM (30°-60°)	13869.8	51.9			
FH (60°-80°)	2565.6	9.6			G2/5000
FVH (80°-90°)	62.8	0.2			G1/100
BL (0°-30°)	1848.5	6.9	B3/2500		
BM (30°-60°)	3806.8	14.2	B3/5000		
BH (60°-80°)	1445.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	83.0	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°	55°	65°	75°	76°	85°
0°	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1
2.5°	5631.7	5541.6	5534.7	5510.5	5524.3	5462.0	5396.2	5309.6	5219.5	5274.9	5143.3
5°	6026.5	5905.3	5953.8	5870.7	5881.0	5797.9	5662.8	5562.4	5451.6	5385.8	5292.2
7.5°	6165.1	6175.4	6210.1	6196.2	6127.0	6127.0	6036.9	5860.3	5666.3	5628.2	5472.4
10°	6352.1	6355.5	6317.4	6327.8	6424.8	6379.8	6300.1	6223.9	5974.6	5929.5	5652.5
12.5°	6417.9	6355.5	6417.9	6473.3	6587.6	6649.9	6632.6	6577.2	6310.5	6279.4	5874.1
15°	6428.3	6390.2	6442.1	6566.8	6667.3	6930.5	7062.1	7024.0	6670.7	6674.2	6123.5
17.5°	6379.8	6431.7	6452.5	6559.9	6792.0	7037.9	7418.8	7470.8	7179.9	7134.8	6438.7
20°	6445.6	6407.5	6435.2	6532.2	6840.4	7224.9	7723.6	8066.5	7657.8	7626.7	6764.2
22.5°	6698.4	6646.5	6639.6	6701.9	6923.6	7321.9	8045.7	8662.2	8239.7	8257.0	7169.5
25°	6895.9	6923.6	6899.3	6895.9	7034.4	7467.3	8471.8	9372.3	9029.4	8928.9	7647.4
27.5°	7235.3	7301.1	7252.6	7318.4	7287.2	7685.5	8776.5	10158.5	9881.4	9746.3	8080.4
30°	7706.3	7741.0	7695.9	7695.9	7602.4	7990.3	9053.6	10979.3	10865.0	10681.5	8589.5
32.5°	8326.3	8378.2	8288.2	8236.2	8222.4	8444.0	9552.4	11789.8	11983.8	11827.9	9264.9
35°	9147.1	9116.0	9008.6	8960.1	8773.1	9140.2	10293.6	12721.5	13230.6	12953.5	10082.3
37.5°	9871.0	9822.5	9815.6	9545.4	9590.5	9891.8	10923.9	13428.0	14439.4	14359.7	10944.7
40°	10546.4	10591.4	10664.2	10511.8	10442.5	10775.0	11658.2	13968.4	15378.0	15346.8	11609.7
42.5°	11270.3	11228.7	11356.9	11228.7	11124.8	11595.8	12454.8	14342.4	16202.3	15946.0	12305.9
45°	12319.7	12188.1	12233.1	12243.5	12167.3	12340.5	12783.8	14612.6	16780.7	16753.0	12815.0
47.5°	13196.0	13199.5	13123.3	13064.4	12832.3	13005.5	13151.0	14782.3	17445.7	17400.7	13012.4
50°	13521.6	13476.5	13698.2	13826.3	13840.2	13486.9	13438.4	14875.8	17795.5	17598.1	13209.8
52.5°	12350.9	12392.5	12742.3	13504.2	13944.1	13982.2	13774.4	15069.7	17937.5	17896.0	13369.2
55°	9940.3	10141.2	10716.1	11595.8	12638.4	13784.8	14138.1	15270.6	18013.7	17979.1	14075.7
56°	8738.4	8894.3	9642.4	10331.7	11640.9	13067.8	13909.5	15485.4	18072.6	18235.4	14242.0
57.5°	7034.4	7214.5	7751.3	8534.1	10078.8	11703.2	13279.1	15222.1	17844.0	17906.4	14363.2
60°	4398.7	4416.0	5060.2	5576.3	6663.8	8250.1	10134.2	13244.5	16514.0	16424.0	12901.6
62.5°	2885.1	2888.6	3473.9	3896.5	4391.7	4755.4	5964.2	8783.5	12184.6	12025.3	9185.2
65°	2026.2	2071.2	2524.9	3089.5	3290.3	3099.8	3061.7	4630.7	6805.8	6577.2	4935.5
67.5°	1482.4	1485.8	1887.6	2493.7	2784.7	2358.7	1915.3	2261.7	2694.6	2687.7	2285.9
70°	980.2	1021.7	1330.0	1863.4	2195.9	1894.5	1565.5	1617.5	1714.4	1714.4	1700.6
72.5°	571.5	609.6	813.9	1181.1	1233.0	1184.5	1239.9	1385.4	1447.7	1444.3	1427.0
75°	325.6	342.9	387.9	491.8	613.0	723.9	910.9	1049.4	1111.8	1149.9	1104.9
77.5°	190.5	200.9	228.6	280.5	318.6	391.4	495.3	592.3	675.4	665.0	671.9
80°	100.4	100.4	128.2	166.2	221.7	277.1	329.0	384.5	429.5	439.9	450.3
82.5°	58.9	62.3	83.1	121.2	159.3	197.4	252.8	290.9	332.5	336.0	342.9
85°	31.2	34.6	52.0	79.7	107.4	121.2	124.7	117.8	128.2	121.2	138.5
87.5°	10.4	10.4	17.3	13.9	13.9	17.3	20.8	20.8	27.7	27.7	27.7
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°	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1	5112.1
2.5°	5139.9	5139.9	5081.0	4970.1	4952.8	4907.8	4866.2	4862.8	4831.6	4803.9	4790.0
5°	5236.8	5129.5	5042.9	4942.4	4824.7	4769.3	4706.9	4637.6	4609.9	4637.6	4634.2
7.5°	5347.7	5257.6	4997.9	4810.8	4675.7	4620.3	4551.1	4478.3	4485.3	4485.3	4436.8
10°	5455.0	5333.8	4918.2	4679.2	4481.8	4440.2	4402.1	4429.8	4464.5	4471.4	4440.2
12.5°	5635.1	5361.5	4880.1	4547.6	4422.9	4332.9	4357.1	4433.3	4506.0	4485.3	4509.5
15°	5770.2	5385.8	4706.9	4412.5	4256.7	4298.2	4384.8	4436.8	4558.0	4544.1	4568.4
17.5°	5901.8	5399.6	4537.2	4232.4	4166.6	4280.9	4346.7	4495.6	4533.7	4616.9	4648.0
20°	6172.0	5427.3	4364.0	4121.6	4100.8	4232.4	4346.7	4416.0	4499.1	4571.8	4571.8
22.5°	6310.5	5413.5	4249.7	3976.1	4041.9	4125.0	4229.0	4346.7	4346.7	4416.0	4419.4
25°	6483.7	5358.1	4069.6	3906.8	3955.3	4035.0	4152.8	4111.2	4156.2	4156.2	4211.6
27.5°	6681.1	5240.3	3913.8	3782.2	3879.1	3965.7	3983.0	3955.3	3903.4	3896.5	3875.7
30°	6840.4	5094.8	3799.5	3740.6	3820.3	3868.7	3813.3	3754.4	3664.4	3657.5	3609.0
32.5°	7058.6	4914.7	3657.5	3636.7	3726.7	3730.2	3712.9	3622.8	3491.2	3435.8	3380.4
35°	7425.8	4810.8	3550.1	3581.3	3609.0	3598.6	3567.4	3470.4	3338.8	3314.6	3293.8
37.5°	7695.9	4734.6	3439.3	3477.4	3501.6	3515.5	3422.0	3314.6	3318.0	3269.6	3255.7
40°	8000.7	4686.1	3349.2	3366.5	3370.0	3415.0	3300.7	3248.8	3273.0	3241.8	3262.6
42.5°	8392.1	4700.0	3255.7	3241.8	3307.7	3290.3	3234.9	3165.7	3179.5	3086.0	3099.8
45°	8599.9	4793.5	3200.3	3137.9	3210.7	3207.2	3134.5	3068.7	2985.5	2805.4	2812.4
47.5°	8738.4	4817.7	3068.7	3027.1	3103.3	3148.3	3065.2	2912.8	2795.1	2666.9	2635.7
50°	8880.4	4862.8	3006.3	2919.7	2950.9	3058.3	2954.4	2808.9	2694.6	2580.3	2597.6
52.5°	9005.1	4949.4	2885.1	2757.0	2812.4	2930.1	2874.7	2698.1	2573.4	2479.9	2452.2
55°	9559.3	5143.3	2680.8	2514.5	2646.1	2795.1	2763.9	2549.1	2414.1	2365.6	2358.7
56°	9645.9	5150.2	2573.4	2431.4	2552.6	2750.0	2711.9	2483.3	2362.1	2285.9	2289.4
57.5°	9659.7	5067.1	2421.0	2355.2	2459.1	2684.2	2635.7	2431.4	2265.1	2195.9	2175.1
60°	8499.5	3955.3	2230.5	2188.9	2310.2	2483.3	2466.0	2289.4	2102.4	2022.7	2060.8
62.5°	5794.5	2899.0	2081.6	2074.6	2137.0	2306.7	2261.7	2102.4	1946.5	1894.5	1870.3
65°	3373.5	2199.3	1936.1	1908.4	1960.3	2050.4	2081.6	1915.3	1752.5	1717.9	1707.5
67.5°	1991.5	1818.3	1749.1	1704.0	1686.7	1742.1	1766.4	1669.4	1506.6	1458.1	1499.7
70°	1666.0	1617.5	1620.9	1544.7	1503.2	1465.1	1444.3	1357.7	1222.6	1160.3	1143.0
72.5°	1437.4	1416.6	1402.7	1333.5	1295.4	1208.8	1118.7	1032.1	931.7	879.7	883.2
75°	1097.9	1091.0	1097.9	1063.3	997.5	928.2	845.1	734.3	658.1	592.3	606.1
77.5°	654.6	675.4	685.8	671.9	644.2	581.9	529.9	457.2	384.5	332.5	325.6
80°	450.3	467.6	484.9	467.6	439.9	394.8	339.4	284.0	232.1	204.3	197.4
82.5°	342.9	360.2	370.6	353.3	318.6	270.2	232.1	194.0	152.4	124.7	117.8
85°	124.7	142.0	138.5	166.2	180.1	173.2	148.9	114.3	86.6	62.3	58.9
87.5°	34.6	31.2	34.6	34.6	34.6	31.2	27.7	27.7	27.7	17.3	13.9
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)