

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: P648069

Luminaire Tested: **GALN-SA7A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15168.3 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

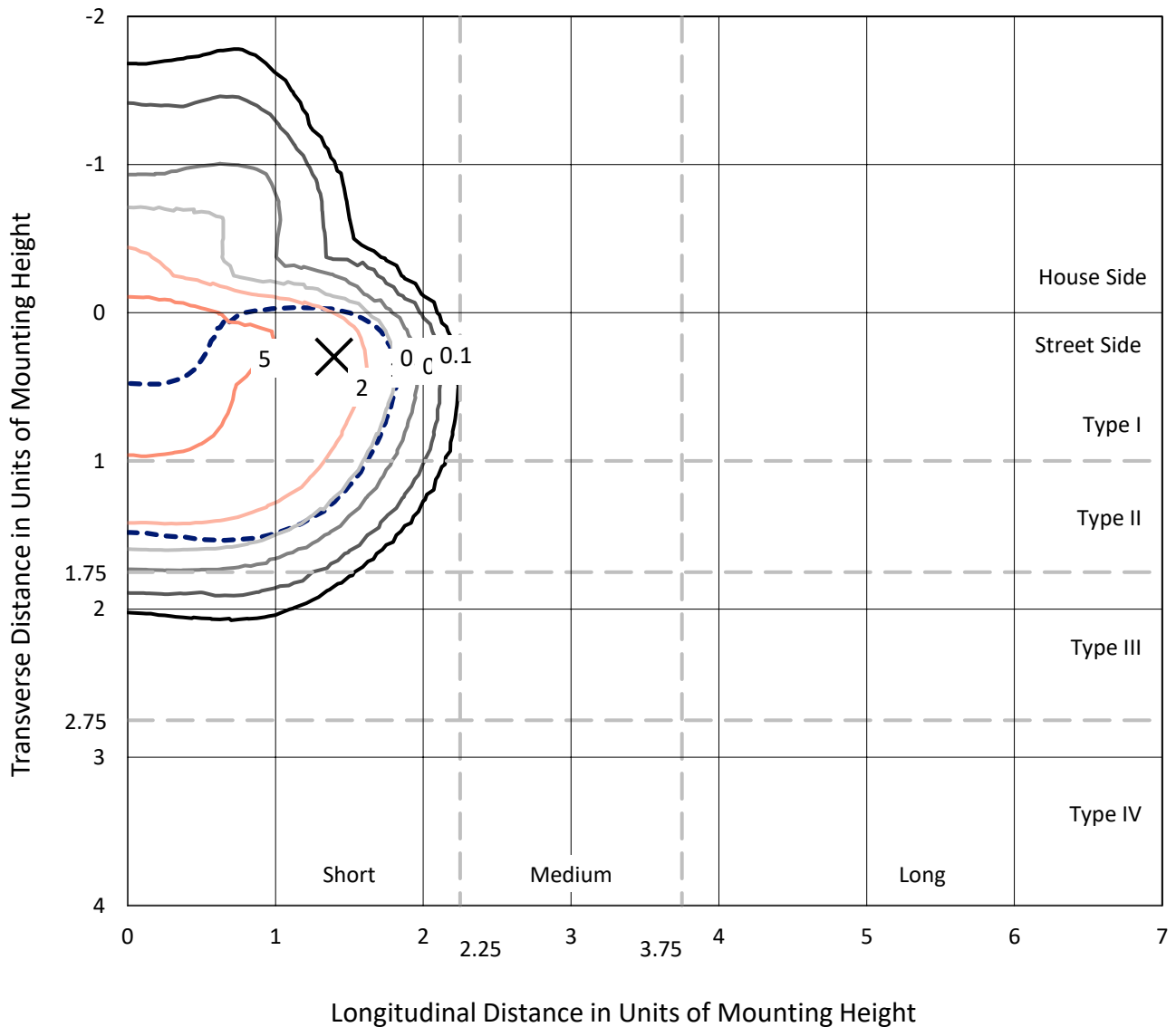
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

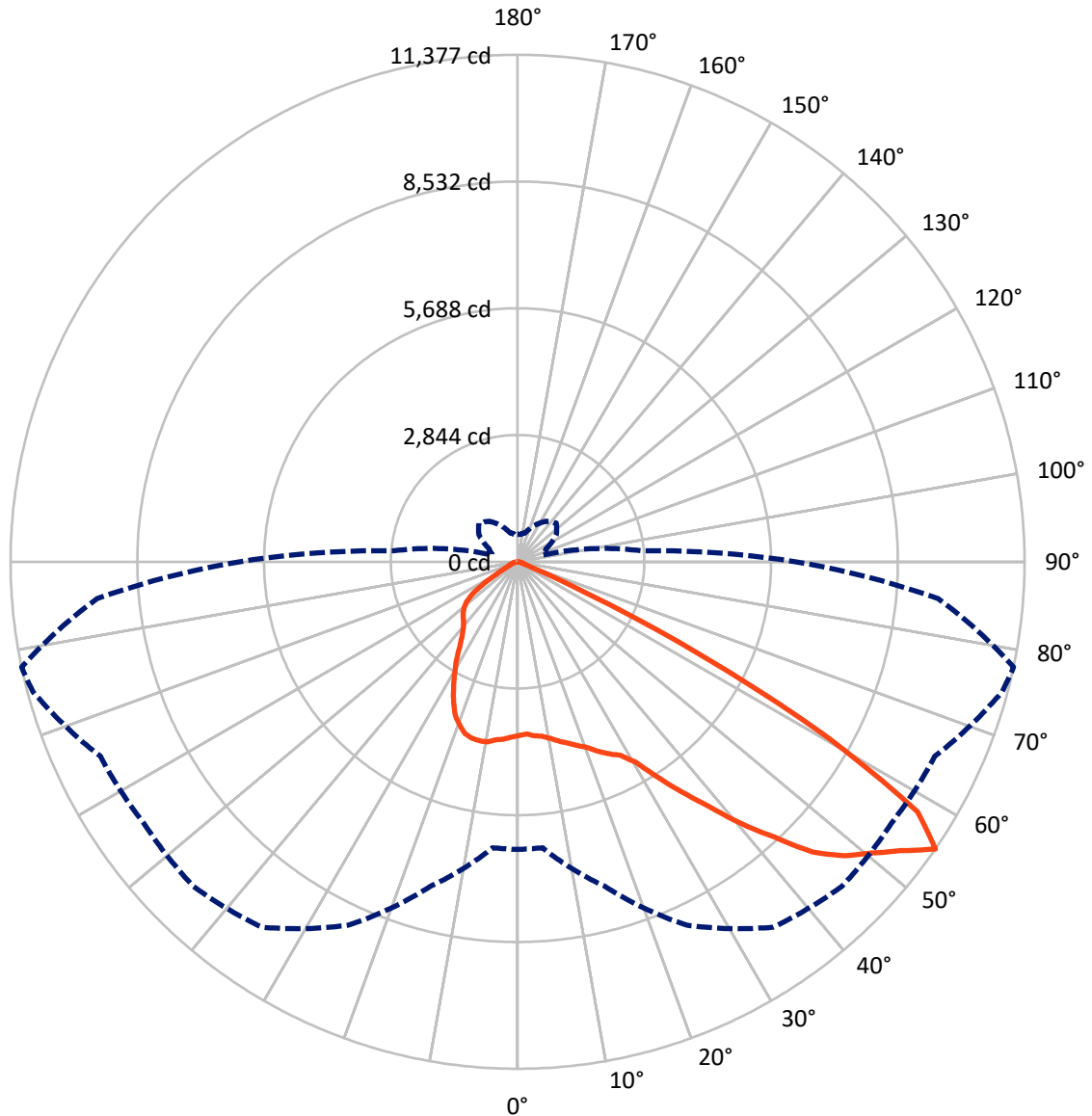
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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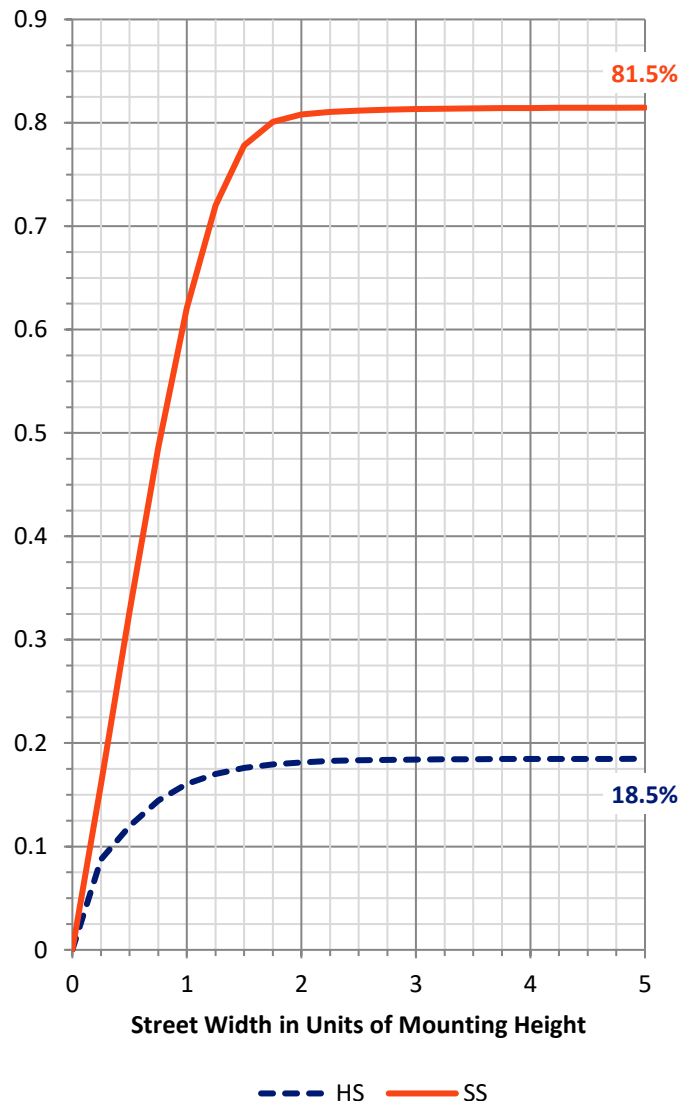
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2817.3	0.0	2817.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12350.9	0.0	12350.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15168.3	0.0	15168.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.7	2.3
10°-20°	920.3	6.1
20°-30°	1613.1	10.6
30°-40°	2659.8	17.5
40°-50°	3870.3	25.5
50°-60°	4385.5	28.9
60°-70°	1253.9	8.3
70°-80°	97.4	0.6
80°-90°	20.2	0.1
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°	15168.3	100.0
0°-180°	15168.3	100.0

**Coefficient of Utilization**



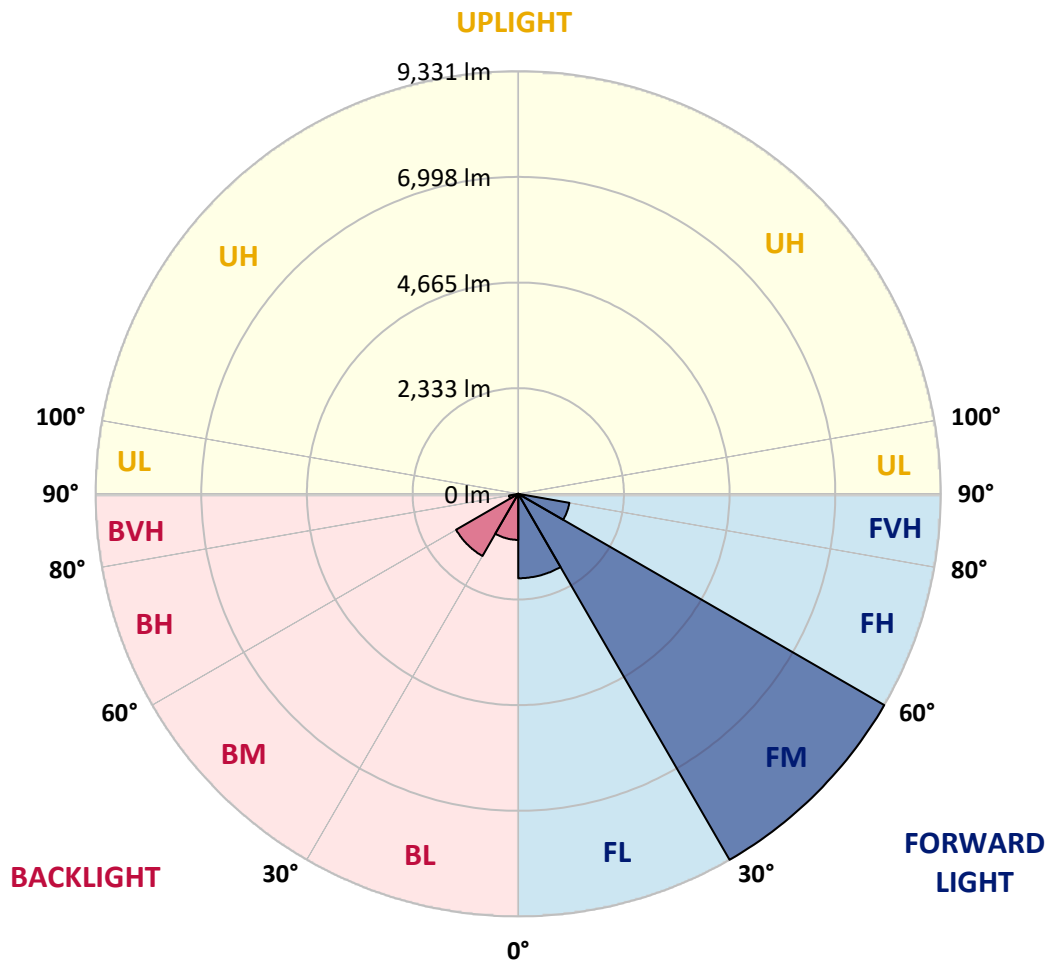
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1864.6	12.3			
FM (30°-60°)	9330.8	61.5			
FH (60°-80°)	1145.6	7.6			G1/1800
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	1016.5	6.7	B3/2500		
BM (30°-60°)	1584.8	10.4	B2/2500		
BH (60°-80°)	205.6	1.4	B1/500		G1/500
BVH (80°-90°)	10.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8
2.5°	3666.6	3701.8	3707.2	3750.6	3747.9	3821.1	3842.8	3845.5	3894.3	3870.0	3932.3
5°	3563.5	3544.5	3536.3	3612.3	3634.0	3699.1	3753.3	3785.9	3886.2	3921.5	3986.6
7.5°	3471.3	3471.3	3476.7	3544.5	3536.3	3620.4	3677.4	3777.7	3924.2	3954.0	4032.7
10°	3381.8	3349.3	3389.9	3460.5	3520.1	3558.0	3677.4	3772.3	3943.2	4029.9	4138.4
12.5°	3335.7	3351.9	3357.3	3408.9	3474.0	3587.9	3653.0	3810.3	4078.7	4130.3	4246.9
15°	3625.8	3593.3	3514.7	3468.6	3522.8	3577.1	3739.8	3899.8	4149.3	4222.5	4352.7
17.5°	3962.1	3935.0	3870.0	3745.2	3623.2	3723.5	3851.0	3997.4	4225.2	4333.7	4526.2
20°	4401.5	4358.1	4293.0	4048.9	3943.2	3834.7	3970.3	4143.9	4350.0	4447.6	4645.5
22.5°	4924.9	4924.9	4778.4	4482.8	4263.2	4160.2	4217.1	4317.4	4488.2	4621.2	4816.4
25°	5470.0	5453.8	5320.8	5014.4	4642.9	4520.8	4585.9	4656.4	4702.5	4775.8	4905.9
27.5°	6093.7	5998.8	5830.7	5491.6	5163.6	4927.6	4998.1	4935.7	4878.8	4916.8	5103.9
30°	6516.8	6576.5	6362.2	6036.8	5727.6	5464.6	5478.1	5423.9	5163.6	5217.8	5328.9
32.5°	6956.1	6994.1	6874.7	6695.7	6386.6	6080.2	5969.0	5922.8	5727.6	5752.0	5643.6
35°	7322.2	7395.4	7289.7	7211.0	7121.5	6874.7	6568.4	6717.5	6402.9	6343.2	6061.2
37.5°	7658.5	7636.8	7761.6	7680.2	7661.3	7487.7	7151.4	7181.2	6969.7	6956.1	6630.7
40°	7959.6	7965.0	8135.8	8173.8	8097.9	7788.7	7300.5	7536.5	7707.3	7723.6	7305.9
42.5°	8209.1	8282.3	8428.7	8735.1	8621.3	8106.0	7455.1	7712.8	8347.3	8447.7	7946.0
45°	8426.0	8575.2	8756.8	9030.7	8965.7	8556.2	7840.3	8076.2	9030.7	9293.8	8548.0
47.5°	8439.6	8634.8	8832.8	9239.6	9320.9	8797.6	8238.9	8651.1	9573.2	9857.9	8987.4
50°	8385.3	8488.3	8884.3	9326.4	9510.8	9190.8	8797.6	9133.9	10099.3	10278.3	9209.7
52.5°	7742.6	7821.2	8615.8	9407.7	9852.5	9635.5	9537.9	9806.4	10636.3	10769.1	9418.6
55°	6454.4	6440.9	7533.8	8998.2	10009.8	10294.6	10234.9	10329.8	11257.3	11376.6	9470.1
57.5°	4415.0	4661.8	5605.6	7493.1	9047.0	10139.9	10202.3	10045.0	10533.2	10579.3	8255.2
60°	2381.1	2484.1	3243.5	5000.8	6888.4	8263.3	8426.0	8141.2	8103.3	7973.1	5893.0
62.5°	946.5	998.0	1429.2	2476.0	3753.3	5022.6	5372.3	5255.7	5006.3	4664.6	3051.0
65°	450.1	482.7	710.5	1158.0	1665.1	2093.6	2443.4	2552.0	1882.1	1695.0	1006.2
67.5°	306.5	330.9	518.0	661.7	593.9	621.0	808.1	751.2	442.1	376.9	279.3
70°	233.3	249.5	414.9	450.1	265.8	187.1	208.8	195.3	181.7	184.4	181.7
72.5°	165.4	179.0	303.7	265.8	116.6	86.8	111.2	132.9	132.9	132.9	130.1
75°	100.4	113.9	176.3	103.0	46.1	46.1	70.5	89.5	94.9	97.6	92.2
77.5°	51.5	65.1	59.7	29.8	29.8	35.2	51.5	62.4	67.8	67.8	65.1
80°	10.9	10.9	10.9	16.3	29.8	38.0	51.5	56.9	65.1	65.1	59.7
82.5°	0.0	2.7	8.1	16.3	27.1	35.2	48.8	56.9	65.1	67.8	62.4
85°	0.0	2.7	5.4	10.9	18.9	21.7	18.9	16.3	16.3	16.3	16.3
87.5°	0.0	0.0	2.7	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4
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°	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8	3899.8
2.5°	3937.7	3945.9	3932.3	3929.6	3918.8	3951.3	3872.6	3853.7	3902.5	3856.4	3867.2
5°	3989.2	4008.3	3983.8	3943.2	3883.5	3791.3	3712.7	3609.6	3560.8	3525.5	3520.1
7.5°	4027.2	4040.8	4016.4	3886.2	3707.2	3474.0	3300.4	3173.0	3072.6	3042.8	2994.0
10°	4181.8	4184.5	4062.5	3775.0	3425.2	3118.8	2852.9	2657.7	2557.4	2495.0	2467.9
12.5°	4284.9	4279.4	4032.7	3555.4	3088.9	2682.1	2378.4	2142.4	2050.2	2020.4	2001.4
15°	4415.0	4385.2	3962.1	3330.3	2655.0	2215.7	1941.8	1779.1	1770.9	1751.9	1770.9
17.5°	4518.1	4434.1	3859.1	2920.7	2240.1	1825.2	1646.2	1657.0	1678.7	1697.7	1700.4
20°	4686.3	4512.7	3623.2	2562.8	1855.0	1564.8	1562.1	1610.9	1665.1	1686.8	1708.5
22.5°	4813.7	4545.2	3371.0	2180.4	1540.4	1459.0	1505.2	1578.4	1619.0	1640.7	1673.3
25°	4859.8	4455.7	3034.7	1798.0	1388.5	1410.2	1480.7	1529.5	1581.0	1605.5	1591.9
27.5°	4905.9	4409.6	2633.3	1480.7	1307.1	1377.7	1437.4	1486.1	1502.4	1535.0	1556.7
30°	5017.1	4249.6	2272.6	1280.0	1266.5	1356.0	1399.4	1415.7	1459.0	1478.0	1478.0
32.5°	5106.6	4187.2	1890.2	1185.1	1261.0	1366.8	1372.2	1372.2	1377.7	1364.1	1358.7
35°	5291.0	3973.0	1548.5	1128.1	1258.4	1369.5	1383.1	1337.0	1212.2	1163.5	1149.8
37.5°	5518.8	3834.7	1296.3	1114.6	1277.3	1402.0	1423.8	1250.2	1087.5	1008.8	995.3
40°	5795.5	3737.0	1130.9	1109.2	1320.7	1478.0	1412.9	1182.4	970.8	857.0	851.5
42.5°	6118.1	3647.5	1019.7	1106.5	1374.9	1556.7	1402.0	1125.5	851.5	775.6	786.4
45°	6375.8	3598.7	943.7	1087.5	1394.0	1602.7	1410.2	1025.1	802.7	754.0	759.4
47.5°	6576.5	3495.7	881.3	1054.9	1391.2	1619.0	1337.0	984.5	778.3	791.9	805.5
50°	6581.9	3357.3	802.7	984.5	1350.5	1589.2	1252.9	946.5	772.9	829.8	857.0
52.5°	6508.7	3162.1	718.6	884.1	1255.6	1486.1	1177.0	930.2	748.5	743.1	775.6
55°	6248.3	2796.0	577.6	716.0	1060.3	1225.8	1109.2	900.4	675.3	612.9	618.3
57.5°	5049.6	2004.1	425.8	512.6	751.2	897.6	1000.7	886.8	607.5	520.7	523.4
60°	3126.8	1136.3	311.9	349.8	463.8	545.1	810.9	824.4	542.4	439.3	433.9
62.5°	1605.5	561.4	241.4	246.8	284.8	320.0	555.9	691.5	490.9	417.7	417.7
65°	537.0	276.6	211.6	189.8	189.8	197.9	336.3	480.0	414.9	349.8	349.8
67.5°	230.5	206.1	184.4	165.4	151.9	143.8	189.8	279.3	309.1	265.8	254.9
70°	179.0	173.6	160.0	138.3	119.3	108.4	111.2	143.8	176.3	170.9	165.4
72.5°	132.9	132.9	127.5	108.4	92.2	78.6	73.2	76.0	84.1	86.8	89.5
75°	92.2	94.9	94.9	84.1	67.8	56.9	48.8	40.7	32.6	27.1	24.4
77.5°	62.4	65.1	70.5	62.4	51.5	38.0	29.8	21.7	13.5	5.4	5.4
80°	54.3	62.4	67.8	62.4	54.3	40.7	29.8	16.3	8.1	0.0	0.0
82.5°	56.9	62.4	70.5	59.7	51.5	38.0	29.8	18.9	8.1	2.7	0.0
85°	13.5	13.5	16.3	18.9	24.4	27.1	21.7	13.5	8.1	2.7	0.0
87.5°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	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)