

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: P652132

Luminaire Tested: **GALN-SA9A-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30638.5 lumens  
Efficiency: N/A  
Efficacy: 111.8 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

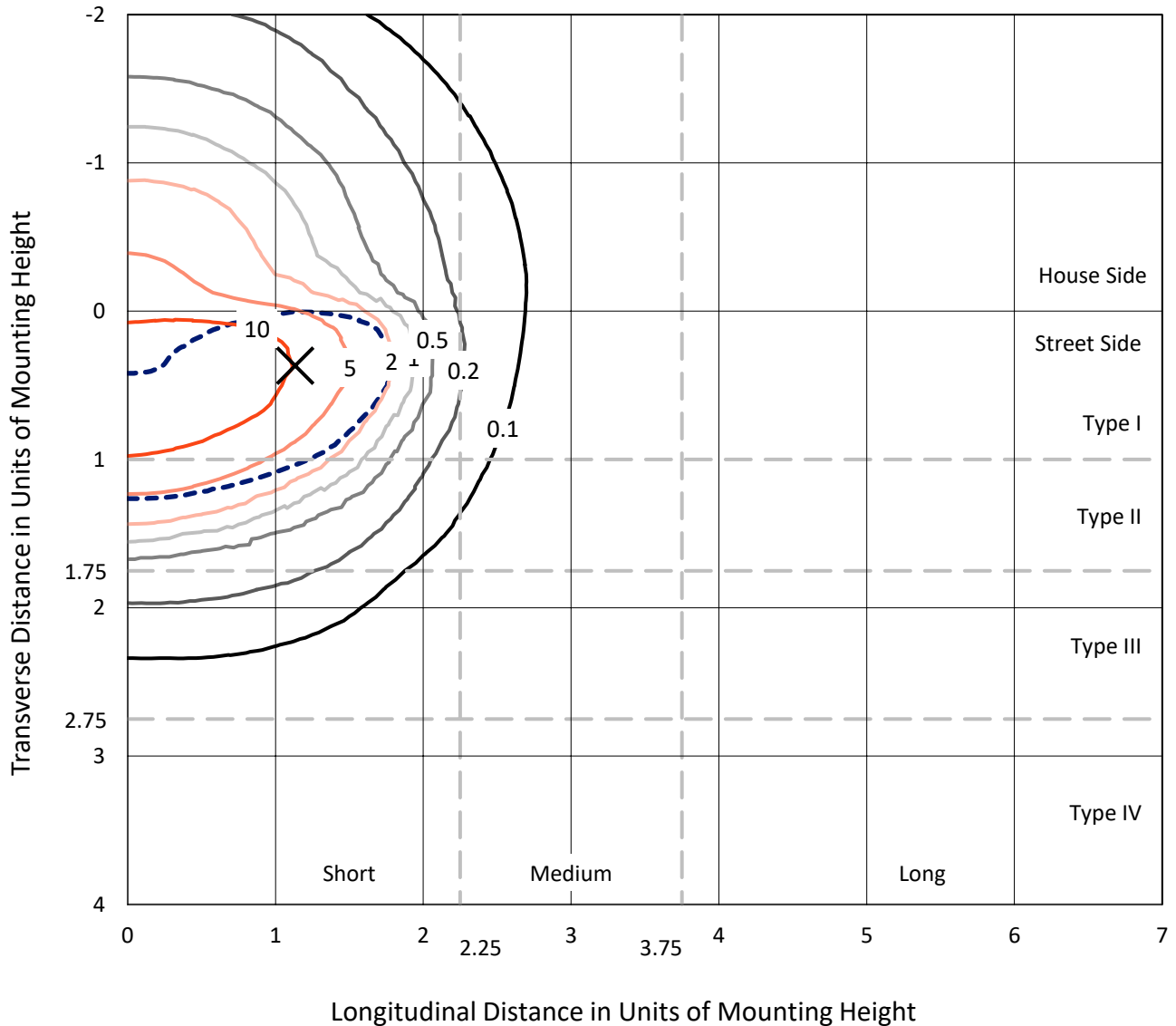
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

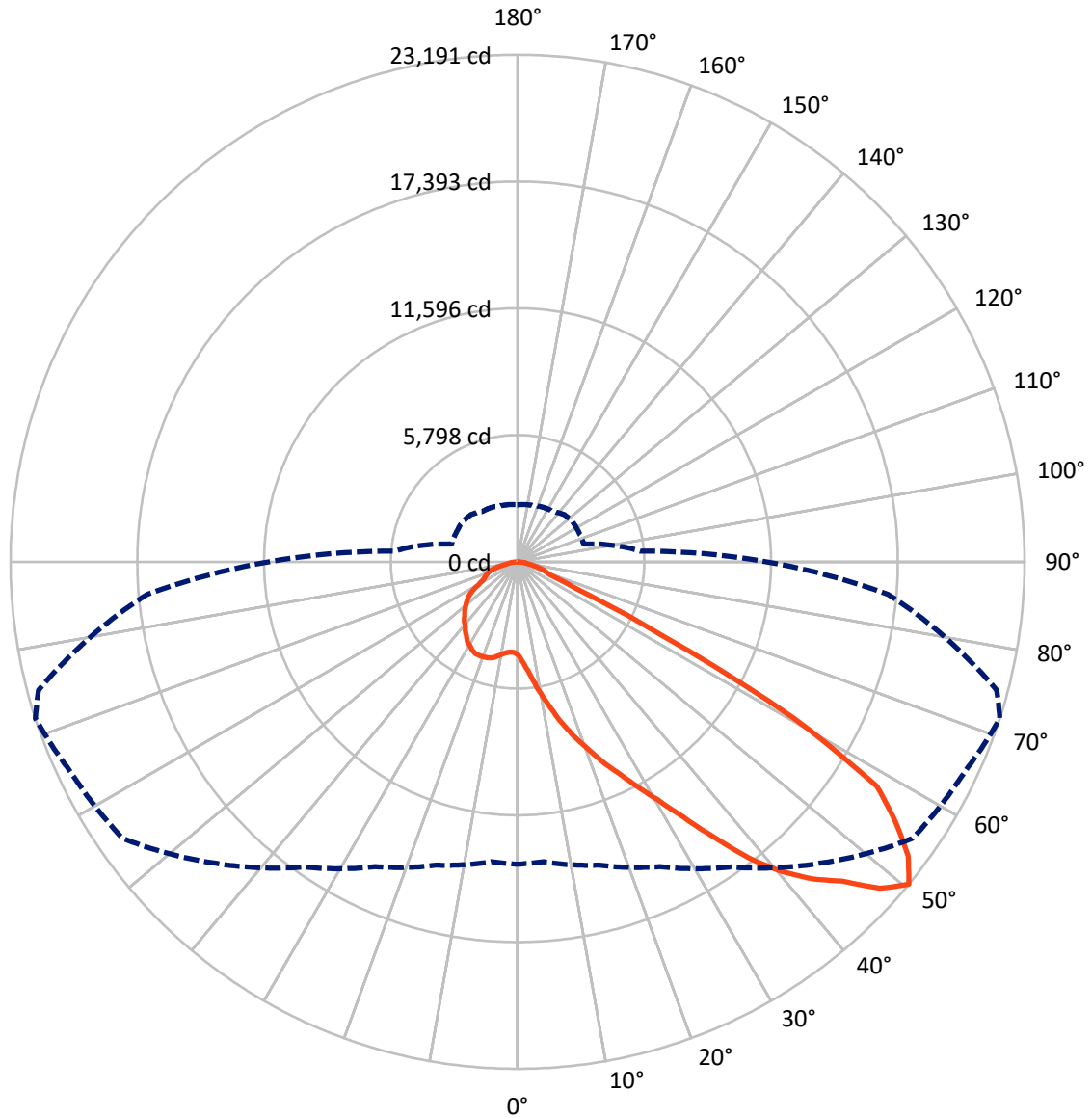
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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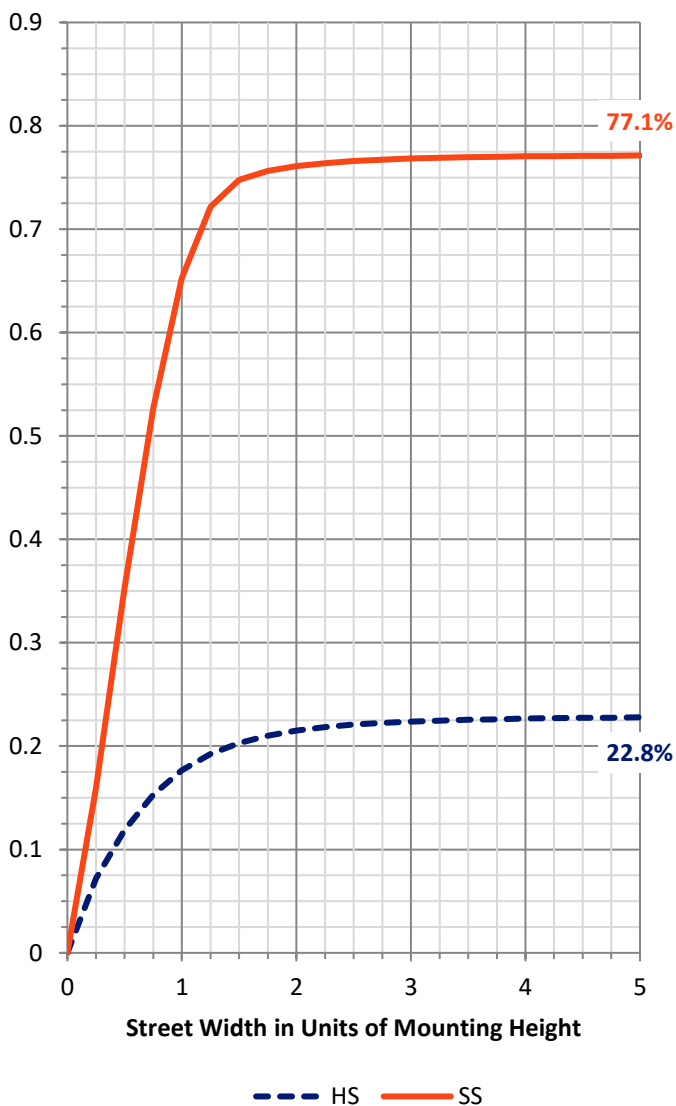
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7019.5	0.0	7019.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	23619.0	0.0	23619.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	30638.5	0.0	30638.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.7	1.6
10°-20°	1875.5	6.1
20°-30°	3636.4	11.9
30°-40°	6024.3	19.7
40°-50°	8429.3	27.5
50°-60°	7111.2	23.2
60°-70°	2167.5	7.1
70°-80°	760.4	2.5
80°-90°	132.2	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°	30638.5	100.0
0°-180°	30638.5	100.0

**Coefficient of Utilization**

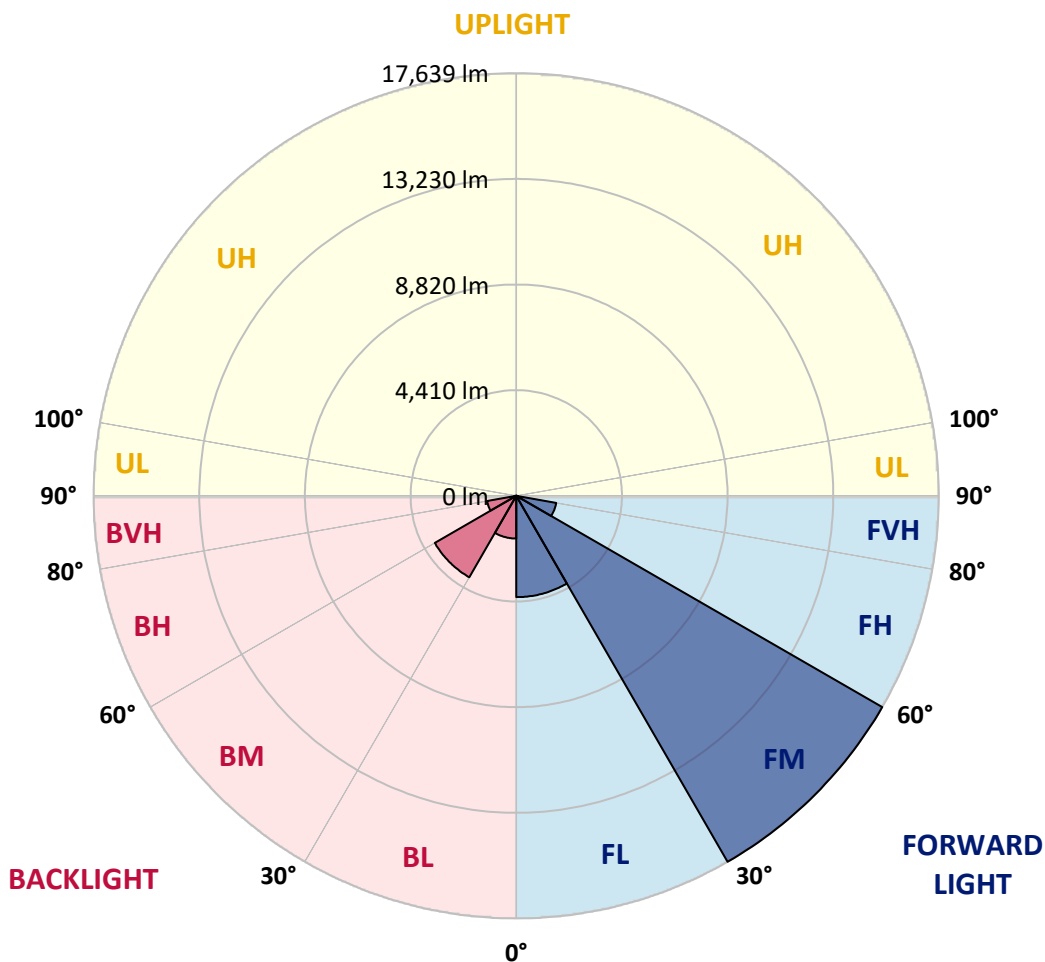


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4229.2	13.8			
FM (30°-60°)	17639.4	57.6			
FH (60°-80°)	1691.2	5.5			G1/1800
FVH (80°-90°)	59.2	0.2			G1/100
BL (0°-30°)	1784.4	5.8	B3/2500		
BM (30°-60°)	3925.4	12.8	B3/5000		
BH (60°-80°)	1236.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	73.0	0.2			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°	72°	75°	85°
0°	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1
2.5°	5485.9	5451.8	5349.4	5315.3	5194.0	4974.1	4898.2	4674.6	4579.8	4492.6	4390.3
5°	6937.9	6778.7	6767.4	6574.0	6293.5	6130.4	5645.1	5319.1	5019.6	4868.0	4587.4
7.5°	7863.0	7866.8	7866.8	7707.6	7483.9	7070.6	6634.6	6047.0	5595.8	5372.1	4894.5
10°	8742.6	8666.8	8625.0	8609.9	8458.3	8056.4	7590.0	6862.1	6244.2	5982.5	5125.7
12.5°	9364.4	9299.9	9394.6	9345.4	9235.4	8973.8	8534.0	7703.8	6930.3	6577.8	5497.3
15°	9660.1	9705.6	9781.4	9917.8	9868.5	9770.0	9284.7	8568.2	7669.7	7271.6	5827.1
17.5°	10115.0	9989.9	10080.9	10251.5	10387.9	10342.4	10065.8	9193.7	8401.3	7912.3	6270.7
20°	10433.4	10361.5	10407.0	10604.1	10706.4	10964.3	10820.1	10012.6	9102.7	8587.1	6793.9
22.5°	11343.4	11237.2	11089.3	11119.7	11157.6	11339.5	11373.7	10911.1	9917.8	9371.9	7290.5
25°	12465.6	12367.0	12192.6	12014.4	11904.4	11870.4	11987.9	11616.3	10698.9	10134.0	7825.1
27.5°	13701.5	13534.7	13424.7	13057.0	12761.2	12715.8	12658.9	12458.0	11623.9	11013.6	8427.9
30°	14903.4	14770.7	14622.8	14035.1	13728.1	13678.8	13398.2	13455.1	12628.6	11949.9	9110.3
32.5°	15813.2	15824.6	15487.2	15043.6	14755.5	14493.9	14391.5	14554.5	13917.6	13371.6	9872.3
35°	16548.7	16582.8	16260.6	15858.7	15547.8	15729.8	15684.3	15760.2	15456.8	14789.6	10759.5
37.5°	17265.3	17094.7	16749.7	16556.3	16393.3	16692.8	17079.5	17144.0	17200.8	16416.1	11790.7
40°	17382.8	17397.9	17197.0	17333.5	17128.8	17579.9	18478.5	18395.0	18626.3	17940.1	12909.2
42.5°	17216.0	17250.1	17329.7	17523.1	18015.9	18558.1	19892.6	19551.4	19832.0	19221.6	13997.3
45°	16943.0	16802.8	16901.3	17636.8	18489.8	19695.5	21185.4	20920.0	20829.0	20317.2	15293.8
47.5°	15638.8	15782.9	16090.0	16996.1	18277.5	19892.6	22102.9	22042.2	22315.2	21955.1	16472.9
50°	13830.4	13773.6	14365.0	15384.8	17037.8	19505.9	22053.6	22603.3	23191.0	22690.5	16999.9
52.5°	10357.7	10660.9	11169.0	12435.3	14793.4	17397.9	20976.9	21894.3	22372.0	22265.9	16575.3
55°	6547.4	6638.4	6945.6	8450.6	10573.7	13963.1	17981.8	20108.7	20961.8	21359.8	16184.8
57.5°	3180.8	3010.3	3385.5	4595.0	6107.7	9390.9	13868.3	17515.5	19369.4	20089.7	15335.6
60°	1660.6	1725.0	1872.9	2305.1	3158.1	4875.5	8644.1	11673.2	14505.2	15612.3	11623.9
62.5°	1376.2	1399.0	1497.6	1713.6	2100.3	2805.5	4413.0	5690.6	7396.7	8393.8	6611.9
65°	1167.7	1179.1	1285.2	1429.3	1675.7	1975.3	2271.0	2377.1	2877.6	2953.3	2350.6
67.5°	974.4	985.7	1099.4	1235.9	1395.1	1474.8	1550.6	1543.1	1599.9	1577.1	1573.3
70°	750.7	762.0	879.6	1023.7	1103.2	1057.7	1292.8	1345.9	1368.6	1387.6	1417.9
72.5°	542.1	564.9	655.9	758.2	716.5	822.7	1065.3	1144.9	1175.3	1186.7	1224.6
75°	394.3	401.8	424.6	394.3	455.0	572.5	750.7	849.2	887.2	898.5	955.4
77.5°	174.4	178.2	182.0	227.5	291.9	356.4	447.3	527.0	580.0	595.3	610.4
80°	91.0	94.8	117.5	155.4	208.5	261.6	326.1	371.6	405.7	409.5	424.6
82.5°	56.9	60.6	83.4	109.9	147.8	193.3	238.8	276.8	303.3	307.0	310.9
85°	26.6	34.1	49.3	68.2	98.6	125.1	128.9	109.9	117.5	121.4	113.7
87.5°	7.6	11.4	15.1	11.4	15.1	15.1	18.9	22.7	22.7	22.7	26.6
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°	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1
2.5°	4333.3	4299.3	4166.6	4117.3	3988.4	4011.1	3942.9	3939.1	3923.9	3920.2	3916.4
5°	4439.6	4333.3	4174.1	4052.9	3980.8	3973.2	3923.9	3923.9	3939.1	3950.4	3923.9
7.5°	4613.9	4492.6	4223.4	4109.7	4045.2	4033.9	3999.7	3973.2	4007.4	3995.9	3965.7
10°	4814.9	4602.5	4318.2	4219.6	4113.5	4086.9	4086.9	4098.4	4041.4	4060.4	4030.1
12.5°	5038.5	4754.2	4439.6	4325.8	4200.7	4185.5	4177.9	4094.5	4124.9	4109.7	4033.9
15°	5322.9	4928.6	4595.0	4401.6	4295.5	4227.2	4128.6	4113.5	4094.5	4056.6	4022.5
17.5°	5630.0	5118.2	4667.0	4424.3	4265.1	4215.8	4140.0	4060.4	4003.6	4011.1	3984.6
20°	5891.5	5292.6	4693.5	4447.1	4242.4	4147.6	4030.1	3980.8	3920.2	3916.4	3912.6
22.5°	6202.5	5527.6	4731.5	4386.5	4174.1	4075.6	3995.9	3908.8	3867.1	3814.0	3840.5
25°	6574.0	5618.6	4739.0	4352.3	4124.9	3950.4	3908.8	3814.0	3798.8	3723.0	3738.2
27.5°	6843.1	5667.9	4678.4	4246.2	4011.1	3878.4	3802.6	3734.4	3707.8	3650.9	3635.8
30°	7203.3	5743.7	4549.5	4113.5	3897.4	3749.5	3704.0	3688.9	3613.0	3552.4	3544.8
32.5°	7612.8	5793.0	4466.0	3977.0	3779.9	3666.1	3688.9	3616.8	3522.0	3469.0	3453.8
35°	7938.9	5812.0	4257.6	3821.6	3700.2	3628.2	3601.7	3586.5	3450.0	3400.8	3362.8
37.5°	8435.5	5770.3	4083.1	3711.6	3613.0	3586.5	3563.7	3461.4	3306.0	3233.9	3180.8
40°	9015.5	5758.9	3859.4	3556.2	3529.7	3560.0	3491.7	3332.5	3116.4	3036.8	2998.8
42.5°	9572.9	5838.5	3719.2	3472.7	3438.7	3450.0	3355.3	3116.4	3010.3	2964.8	2904.1
45°	10505.5	6005.3	3488.0	3343.9	3328.7	3321.1	3207.4	2957.1	2896.5	2839.6	2828.3
47.5°	11347.2	5895.3	3340.1	3211.2	3226.3	3184.6	2942.0	2862.3	2794.1	2737.3	2718.3
50°	11396.5	5633.8	3131.5	3108.8	3112.6	3040.6	2809.3	2756.2	2669.0	2631.2	2604.6
52.5°	11138.6	5205.4	2938.2	2945.8	2957.1	2839.6	2646.3	2608.4	2536.4	2483.2	2468.1
55°	10414.5	4538.1	2748.6	2779.0	2809.3	2585.7	2524.9	2430.2	2373.3	2297.5	2301.3
57.5°	9174.8	3654.7	2483.2	2532.5	2597.0	2350.6	2305.1	2187.5	2104.1	2043.5	2035.9
60°	6149.4	2600.8	2085.2	2104.1	2248.2	2149.6	2145.8	2028.3	1914.5	1861.5	1831.2
62.5°	3628.2	1986.6	1800.8	1781.9	1778.1	1835.0	1929.8	1888.0	1740.2	1637.8	1668.1
65°	1899.4	1717.4	1675.7	1611.3	1573.3	1558.2	1630.2	1649.2	1550.6	1440.6	1433.1
67.5°	1596.1	1596.1	1562.0	1539.3	1486.1	1421.7	1376.2	1315.6	1300.4	1270.1	1232.1
70°	1452.1	1489.9	1478.6	1425.5	1380.0	1308.0	1190.4	1091.9	997.1	962.9	985.7
72.5°	1266.3	1304.2	1304.2	1277.6	1217.0	1107.0	993.3	879.6	800.0	739.3	731.7
75°	974.4	993.3	1038.8	1008.4	928.9	860.6	743.1	625.5	549.8	492.8	481.5
77.5°	621.8	652.1	652.1	648.3	591.4	527.0	451.2	367.8	310.9	269.2	257.8
80°	413.3	432.2	447.3	432.2	394.3	345.0	288.1	231.3	189.6	155.4	147.8
82.5°	303.3	326.1	337.4	322.3	284.3	246.4	204.7	163.0	121.4	94.8	87.2
85°	117.5	121.4	136.5	163.0	159.2	155.4	125.1	91.0	68.2	49.3	45.5
87.5°	30.4	26.6	30.4	30.4	26.6	22.7	22.7	22.7	22.7	11.4	15.1
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)