

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: P650730

Luminaire Tested: **GALN-SA2C-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12006.1 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

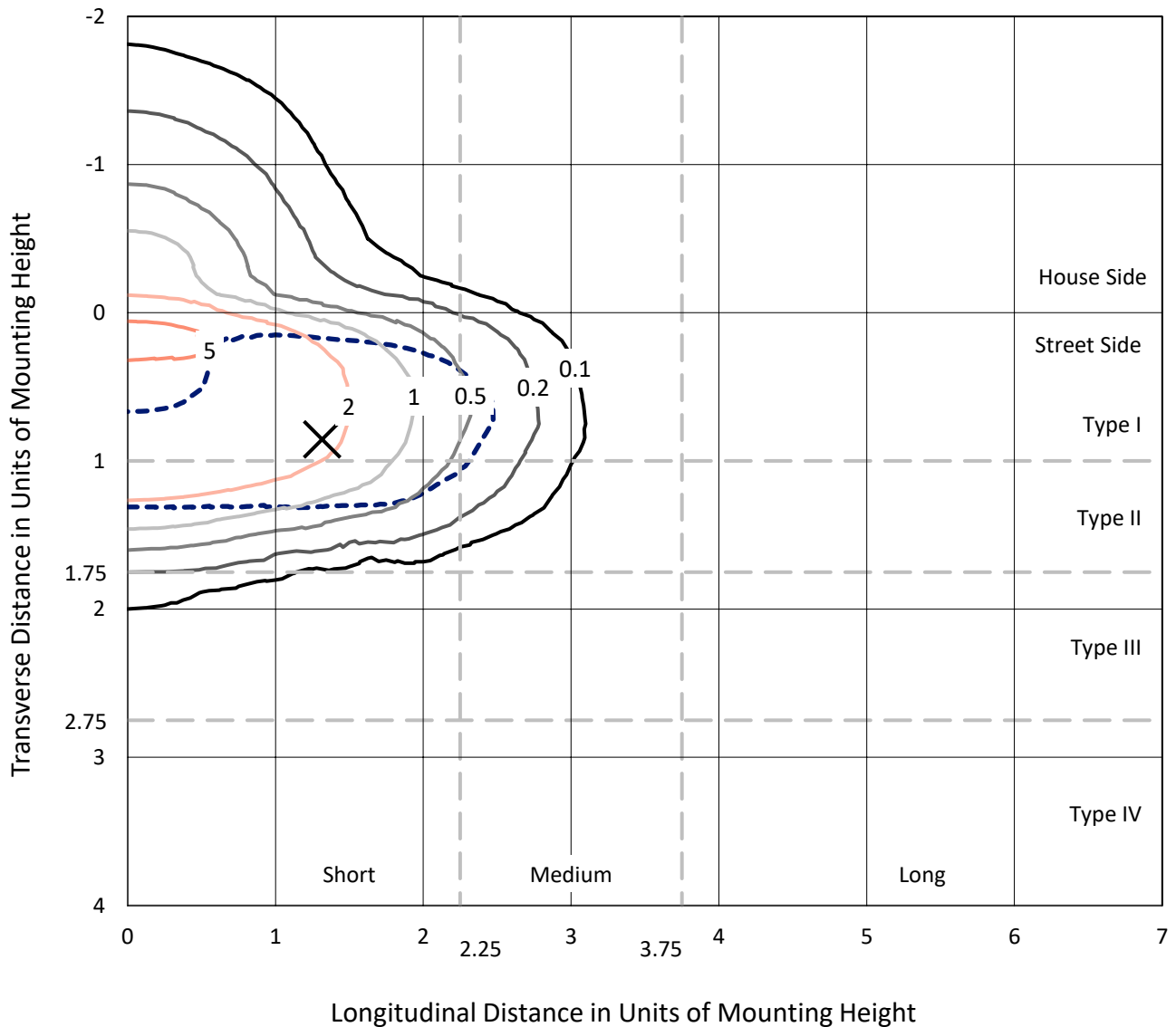
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650730
 CATALOG NUMBER: GALN-SA2C-840-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

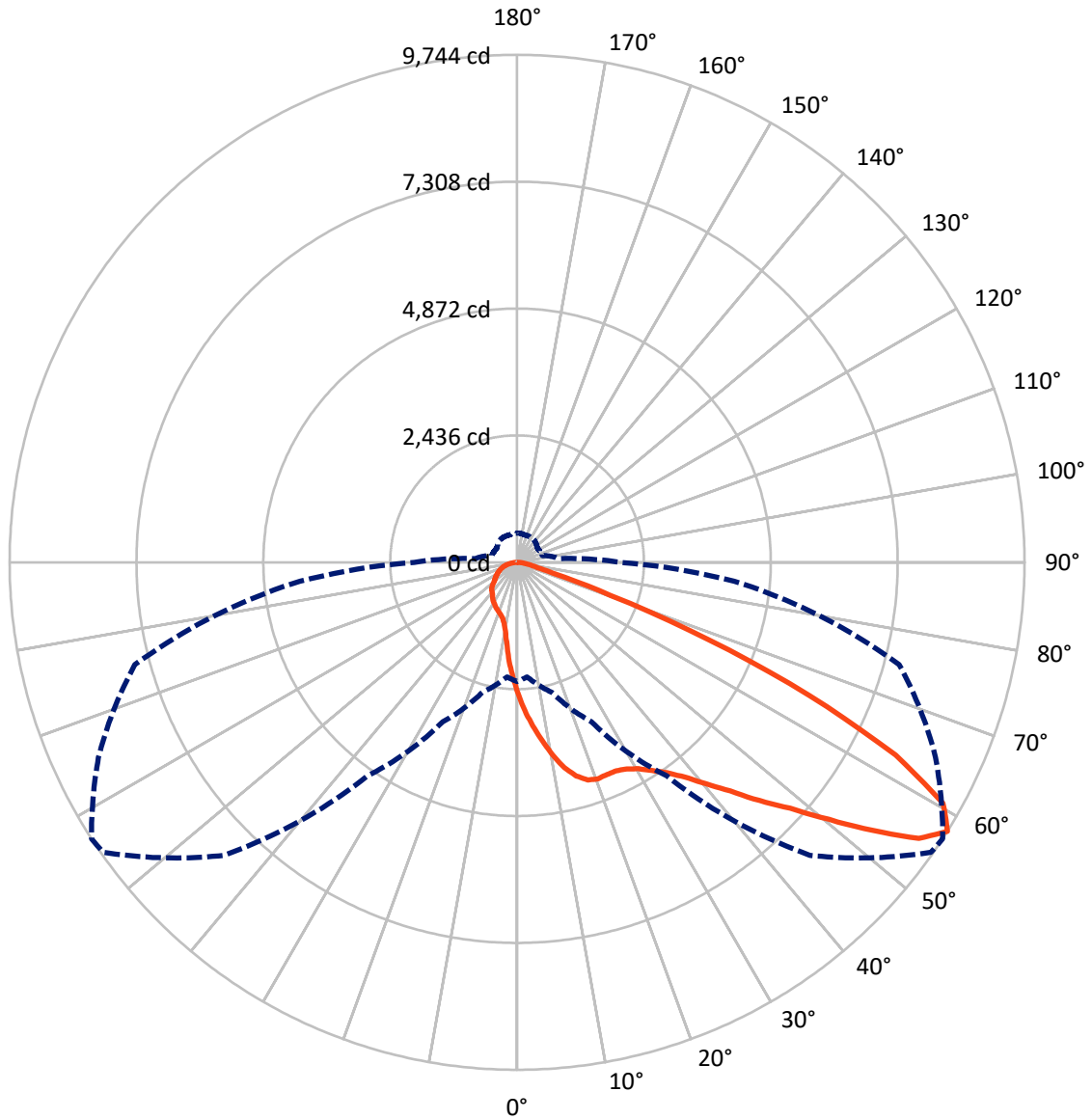
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P650730
CATALOG NUMBER: GALN-SA2C-840-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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 CATALOG NUMBER: GALN-SA2C-840-U-AFL

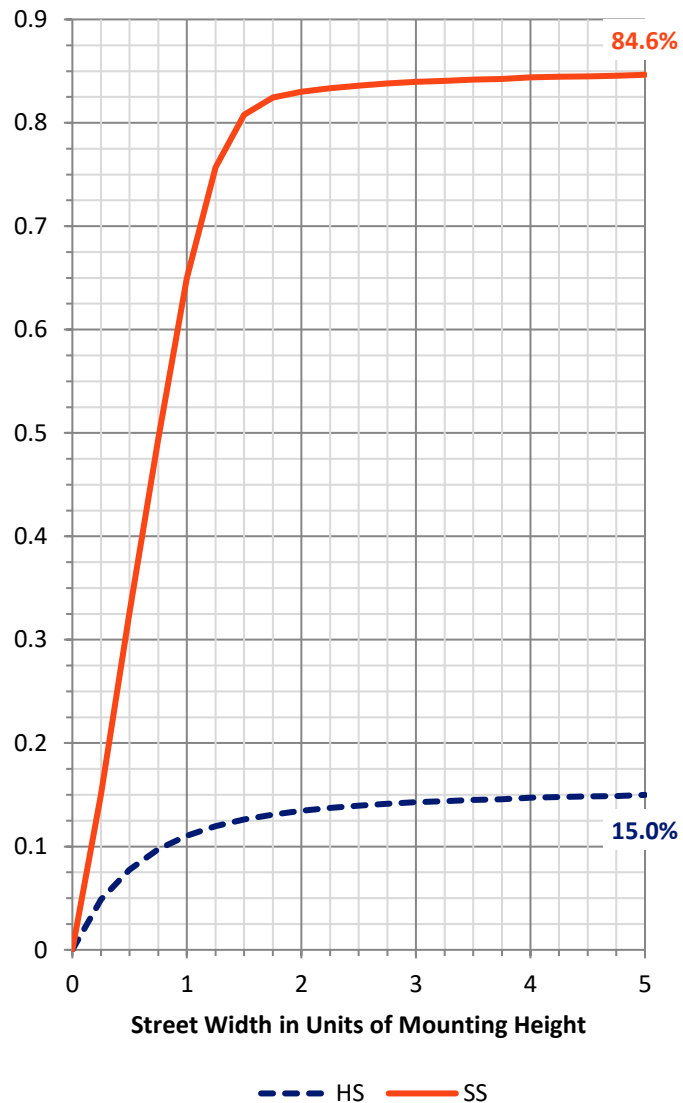
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1825.8	0.0	1825.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	10180.3	0.0	10180.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	12006.1	0.0	12006.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	2.0
10°-20°	714.4	6.0
20°-30°	1186.3	9.9
30°-40°	1787.0	14.9
40°-50°	2682.9	22.3
50°-60°	3007.2	25.0
60°-70°	1760.0	14.7
70°-80°	520.6	4.3
80°-90°	105.2	0.9
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°	12006.1	100.0
0°-180°	12006.1	100.0

Coefficient of Utilization

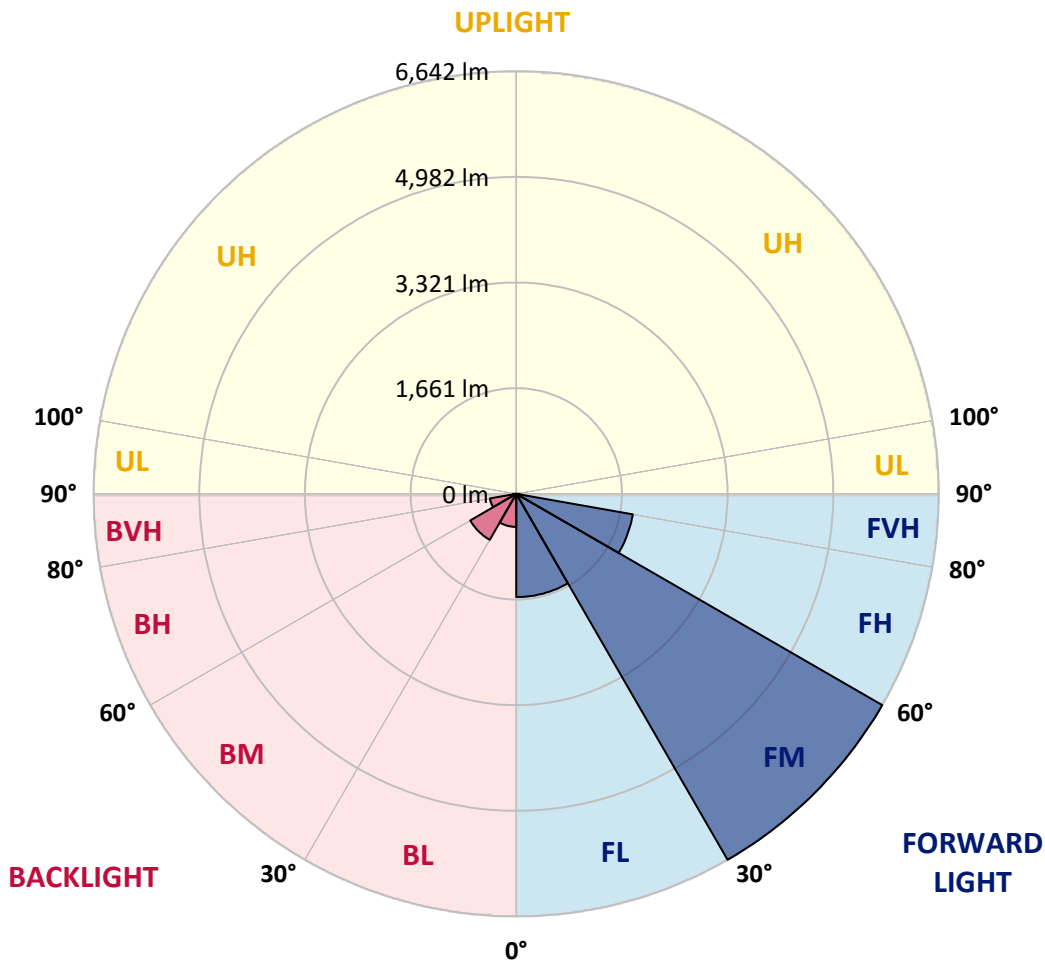


REPORT NUMBER: P650730
 CATALOG NUMBER: GALN-SA2C-840-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1622.9	13.5			
FM (30°-60°)	6642.3	55.3			
FH (60°-80°)	1860.5	15.5			G2/5000
FVH (80°-90°)	54.6	0.5			G1/100
BL (0°-30°)	520.2	4.3	B2/1000		
BM (30°-60°)	834.8	7.0	B1/1000		
BH (60°-80°)	420.1	3.5	B1/500		G1/500
BVH (80°-90°)	50.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P650730

CATALOG NUMBER: GALN-SA2C-840-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3
2.5°	3134.2	3100.0	3073.1	3049.5	3018.5	2935.1	2851.6	2850.3	2783.9	2681.4	2576.2
5°	3644.8	3598.8	3604.8	3531.2	3457.5	3336.6	3159.8	3150.6	3009.4	2817.4	2622.2
7.5°	3977.4	3978.0	3959.7	3917.6	3838.1	3700.7	3500.2	3454.9	3258.5	2967.3	2674.8
10°	3960.3	3978.0	4009.0	4045.1	4069.4	4001.7	3819.0	3763.8	3508.1	3148.7	2733.3
12.5°	3732.9	3760.5	3804.5	3895.3	4041.8	4153.5	4091.1	4046.4	3797.3	3329.4	2797.8
15°	3591.0	3607.4	3631.7	3692.8	3850.5	4118.0	4279.7	4256.0	4070.1	3533.8	2870.0
17.5°	3547.6	3564.0	3571.9	3609.4	3721.8	3995.8	4353.9	4396.1	4311.9	3721.8	2943.0
20°	3591.0	3598.8	3598.8	3621.2	3709.2	3924.2	4350.7	4435.4	4510.4	3947.1	3011.3
22.5°	3704.7	3708.0	3703.3	3711.2	3776.9	3943.9	4319.8	4424.9	4670.7	4138.4	3064.5
25°	3889.4	3894.6	3864.4	3846.0	3893.9	4030.7	4336.9	4433.5	4796.3	4321.1	3100.0
27.5°	4098.9	4105.5	4068.8	4026.0	4048.4	4137.7	4403.9	4490.7	4890.2	4501.2	3122.4
30°	4356.0	4358.6	4296.8	4245.5	4231.1	4297.4	4518.3	4599.1	5007.2	4713.5	3155.9
32.5°	4618.9	4638.5	4559.1	4486.7	4462.4	4482.8	4687.1	4765.4	5146.6	4941.5	3209.8
35°	4976.4	4979.6	4884.4	4796.3	4716.1	4742.4	4903.4	4959.9	5339.1	5205.0	3286.0
37.5°	5422.6	5452.8	5321.3	5157.1	5058.5	5020.3	5165.0	5226.7	5609.2	5528.4	3401.0
40°	5918.1	5929.3	5816.9	5714.4	5534.3	5423.9	5523.8	5590.8	5942.4	5914.2	3534.5
42.5°	6229.6	6253.9	6262.5	6252.0	6116.6	5931.2	5969.4	6001.0	6336.8	6276.3	3671.1
45°	6334.7	6370.9	6493.2	6752.1	6766.6	6583.9	6495.1	6525.4	6766.6	6641.7	3801.9
47.5°	6160.7	6222.4	6447.9	6978.9	7376.5	7390.3	7122.8	7056.4	7158.3	6944.6	3896.5
50°	5710.5	5723.6	6068.7	6837.6	7662.4	8161.1	7884.5	7760.9	7530.2	7168.8	3961.6
52.5°	5013.8	5028.9	5318.1	6181.0	7486.2	8700.1	8775.7	8554.8	7908.1	7342.9	4004.3
55°	3721.8	3809.1	4127.2	4961.2	6651.6	8649.4	9484.1	9358.6	8364.9	7480.9	4071.4
57.5°	2288.4	2208.2	2585.4	3375.4	5002.6	7954.1	9703.0	9743.7	8867.7	7596.6	4183.7
60°	1052.8	1068.6	1224.4	1741.0	3049.5	6222.4	9139.1	9396.7	9145.6	7592.6	4212.0
62.5°	725.5	711.1	671.6	764.3	1390.7	3935.4	7719.5	8155.9	8588.4	7356.7	4099.6
65°	648.7	634.2	558.0	532.4	638.8	1715.3	5611.8	6162.6	7231.2	6761.3	3819.7
67.5°	605.9	586.3	507.4	457.4	456.1	682.8	3309.0	3972.1	5363.5	5716.4	3309.7
70°	561.3	545.5	467.3	412.1	388.4	429.2	1454.4	1903.9	3482.5	4119.4	2578.2
72.5°	516.5	498.1	427.8	368.7	337.8	321.3	557.3	724.9	1967.7	2469.8	1580.6
75°	451.5	442.3	382.5	333.9	300.3	259.6	353.6	403.5	941.1	1134.3	793.2
77.5°	395.0	385.1	339.8	291.8	267.5	210.9	251.0	274.1	397.0	460.0	358.2
80°	289.1	299.1	286.5	257.6	238.6	165.6	168.9	188.0	235.9	260.9	218.8
82.5°	183.3	201.8	220.8	198.5	180.7	130.8	117.0	124.2	161.1	170.9	97.3
85°	76.9	78.2	128.2	120.9	103.2	77.5	70.3	74.3	86.1	90.1	45.3
87.5°	29.6	28.9	45.3	42.0	32.2	22.4	22.4	25.0	34.1	31.5	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650730
 CATALOG NUMBER: GALN-SA2C-840-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3
2.5°	2530.9	2484.2	2391.6	2276.6	2192.4	2097.8	2014.4	1954.5	1932.2	1921.7	1901.9
5°	2528.9	2436.9	2245.0	2043.9	1882.2	1716.6	1576.6	1486.0	1478.1	1417.6	1411.7
7.5°	2529.6	2388.9	2083.3	1787.6	1541.1	1371.6	1255.9	1225.7	1189.5	1180.3	1185.0
10°	2531.6	2327.8	1909.8	1533.9	1295.3	1184.3	1140.9	1129.0	1130.4	1134.3	1135.0
12.5°	2534.2	2268.7	1729.8	1341.3	1157.3	1111.3	1106.8	1117.3	1128.5	1136.9	1139.0
15°	2537.5	2201.0	1554.3	1186.2	1088.3	1084.4	1099.5	1117.3	1133.0	1145.5	1147.5
17.5°	2533.5	2122.1	1407.1	1090.9	1050.2	1069.2	1094.2	1116.6	1131.1	1142.9	1144.2
20°	2524.3	2034.0	1265.1	1023.9	1026.5	1057.5	1084.4	1105.4	1121.2	1127.1	1131.7
22.5°	2488.9	1928.9	1141.6	972.0	998.3	1041.0	1073.2	1085.7	1068.0	1055.5	1058.7
25°	2428.4	1792.2	1026.5	930.0	972.7	1018.0	1050.8	1020.6	1006.2	1001.0	1003.6
27.5°	2352.8	1642.4	939.8	885.9	939.8	992.4	983.2	977.9	971.4	962.8	964.8
30°	2271.3	1495.8	866.2	851.8	904.3	934.5	938.5	947.1	939.8	926.7	931.9
32.5°	2195.7	1357.8	810.3	822.8	879.3	874.7	904.3	914.2	880.6	836.6	838.6
35°	2131.3	1229.6	768.3	794.6	836.6	838.6	868.2	834.0	797.9	776.8	778.1
37.5°	2082.7	1129.7	740.7	770.3	782.0	807.0	791.3	773.6	768.9	754.5	755.1
40°	2053.7	1042.3	722.9	751.2	749.2	766.3	715.7	733.4	740.0	735.4	736.0
42.5°	2024.9	980.5	704.5	724.9	724.3	690.7	679.5	694.7	711.7	713.8	712.4
45°	2001.8	932.6	685.5	684.8	697.9	645.4	642.1	651.3	675.6	687.4	686.8
47.5°	1976.2	892.5	656.6	638.2	642.1	617.1	611.8	615.8	645.4	664.5	669.7
50°	1944.0	852.4	620.4	595.4	579.0	590.8	592.1	592.8	622.3	644.0	648.7
52.5°	1918.4	822.2	579.0	560.6	540.8	567.2	577.0	578.4	596.1	613.8	617.1
55°	1933.5	805.1	538.2	525.1	507.4	542.9	561.9	564.6	568.5	581.6	583.6
57.5°	1978.9	809.0	505.4	488.3	475.2	513.9	546.1	548.1	545.5	561.3	563.9
60°	1992.7	807.0	481.1	447.6	439.7	483.1	523.1	527.1	526.4	549.4	554.1
62.5°	1934.8	782.0	456.7	413.4	408.1	451.5	490.9	506.7	510.0	542.9	548.8
65°	1798.7	730.8	424.5	377.3	377.3	418.0	460.0	481.7	490.9	535.0	541.5
67.5°	1619.3	670.4	391.7	346.3	345.1	385.8	427.1	449.5	464.0	523.8	527.7
70°	1344.0	588.9	350.9	312.9	312.9	349.6	387.1	414.0	435.0	502.7	502.7
72.5°	920.7	489.6	301.7	274.7	275.3	309.6	347.7	377.9	402.8	460.7	462.0
75°	582.3	382.5	247.8	234.0	236.6	268.8	308.2	339.8	389.7	455.4	457.4
77.5°	309.6	268.8	197.1	193.9	197.1	226.7	270.8	314.1	391.1	395.0	388.4
80°	200.4	190.6	155.8	149.2	150.5	182.7	241.2	298.4	314.1	318.1	303.6
82.5°	109.1	120.9	110.4	103.9	103.9	142.6	205.7	237.2	225.4	187.3	178.8
85°	46.7	56.5	57.2	50.0	47.9	88.1	138.0	129.4	120.3	115.0	113.7
87.5°	13.1	18.4	18.4	13.8	10.5	24.3	27.6	7.9	0.0	0.7	1.3
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)