

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: P528851

Luminaire Tested: **GALN-SA4A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11287 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

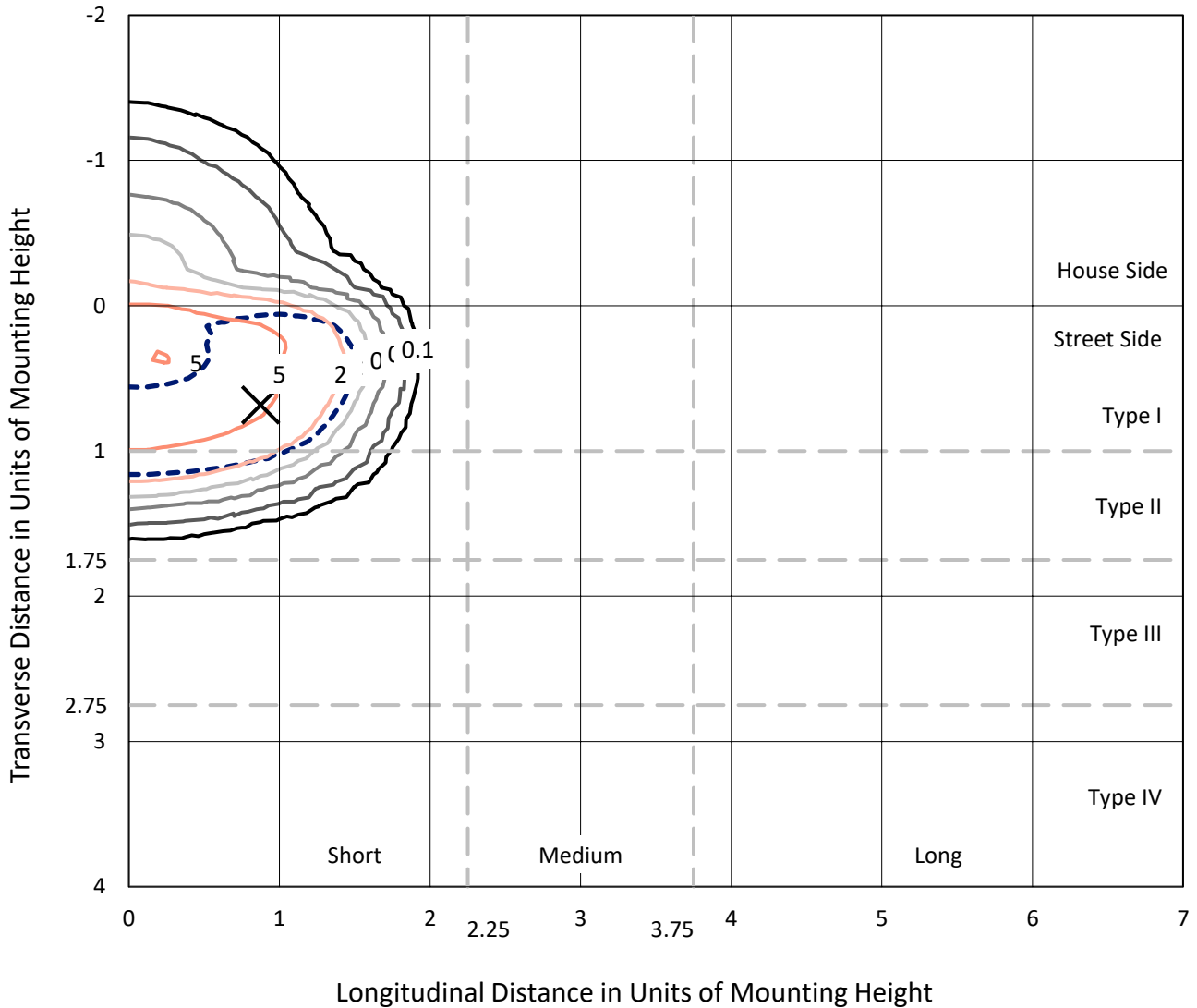
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528851
 CATALOG NUMBER: GALN-SA4A-727-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

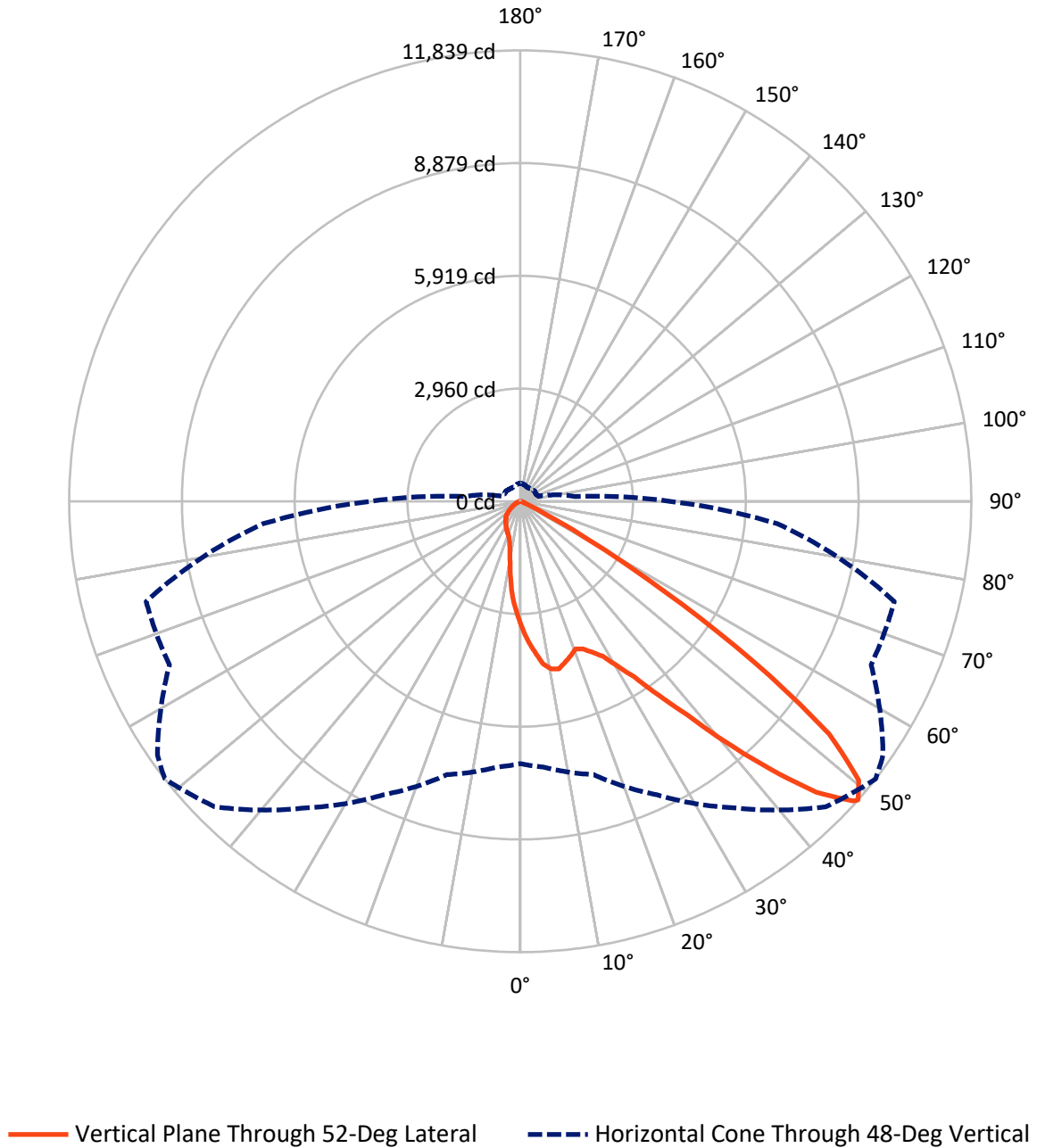
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P528851
CATALOG NUMBER: GALN-SA4A-727-U-AFL-GRSBK

Luminous Intensity Polar Plot



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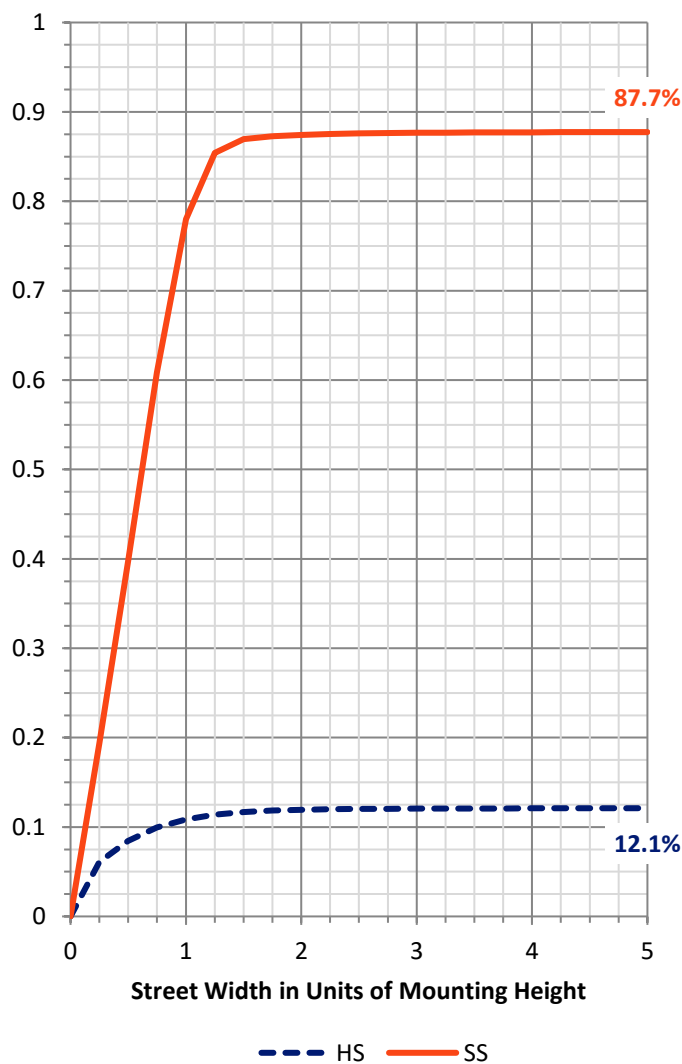
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1374.3	0.0	1374.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9912.7	0.0	9912.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	11287.0	0.0	11287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	2.6
10°-20°	779.7	6.9
20°-30°	1331.2	11.8
30°-40°	2451.4	21.7
40°-50°	3807.0	33.7
50°-60°	2291.2	20.3
60°-70°	265.0	2.3
70°-80°	51.3	0.5
80°-90°	11.9	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°	11287.0	100.0
0°-180°	11287.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528851

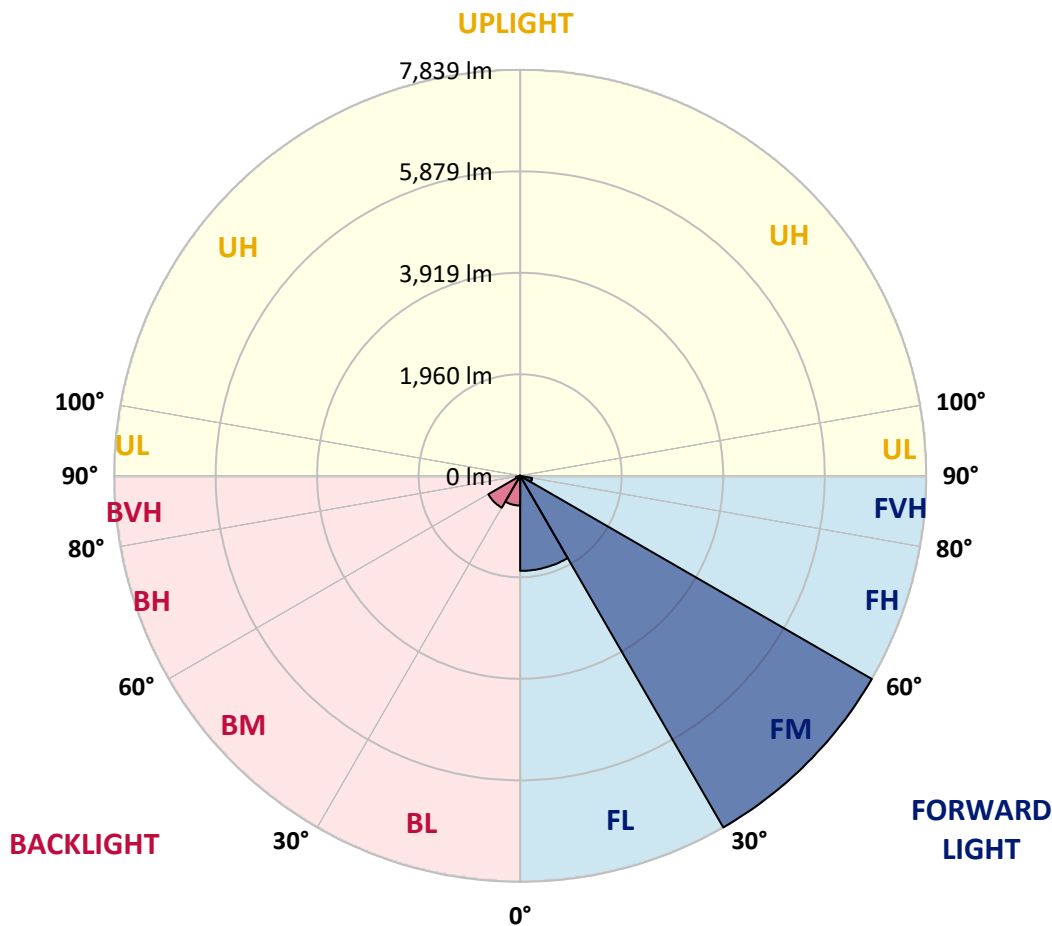
CATALOG NUMBER: GALN-SA4A-727-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.1	16.3			
FM (30°-60°)	7838.6	69.4			
FH (60°-80°)	233.4	2.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	574.1	5.1	B2/1000		
BM (30°-60°)	711.0	6.3	B1/1000		
BH (60°-80°)	82.9	0.7	B0/110		G0/110
BVH (80°-90°)	6.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





REPORT NUMBER: P528851

CATALOG NUMBER: GALN-SA4A-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5
2.5°	3950.6	3860.1	3868.3	3809.1	3774.5	3718.6	3642.9	3628.1	3545.8	3433.9	3320.4
5°	4306.0	4284.6	4312.5	4227.0	4230.3	4138.1	3960.4	3963.7	3774.5	3591.9	3415.8
7.5°	4329.0	4279.6	4307.6	4383.3	4427.7	4411.3	4310.9	4223.7	4044.3	3776.1	3519.5
10°	3876.5	3970.3	3999.9	4125.0	4302.7	4490.2	4478.7	4483.7	4333.9	3983.5	3608.3
12.5°	3605.0	3542.5	3642.9	3718.6	3986.8	4350.4	4516.6	4552.8	4564.3	4184.2	3697.2
15°	3481.6	3481.6	3498.1	3519.5	3713.6	4049.3	4388.2	4493.5	4742.0	4447.5	3837.0
17.5°	3559.0	3555.7	3578.7	3534.3	3606.7	3865.0	4269.8	4389.9	4941.1	4705.8	3947.3
20°	3794.2	3805.8	3791.0	3662.6	3667.6	3861.7	4138.1	4327.3	5076.0	4929.6	4093.7
22.5°	4121.7	4128.3	4044.3	3904.5	3863.4	3958.8	4213.8	4358.6	5184.6	5197.8	4138.1
25°	4500.1	4473.8	4457.3	4259.9	4134.8	4217.1	4384.9	4468.9	5252.1	5428.1	4264.8
27.5°	5025.0	4972.3	4872.0	4695.9	4603.8	4487.0	4607.1	4745.3	5444.6	5750.6	4403.0
30°	5800.0	5753.9	5558.1	5331.0	5089.2	4974.0	5011.8	5087.5	5791.7	6124.1	4585.7
32.5°	6966.5	6869.5	6586.5	6153.7	5824.6	5507.1	5497.2	5577.8	6102.7	6640.8	4802.9
35°	8251.6	8222.0	7805.7	7359.8	6723.0	6232.7	6240.9	6283.7	6698.3	7318.7	5087.5
37.5°	9105.5	9268.4	9003.5	8524.7	7990.0	7289.0	7111.3	7126.1	7516.1	8121.6	5600.9
40°	9765.3	9627.1	9658.4	9546.5	9181.2	8704.1	8310.8	8233.5	8462.2	9010.1	6110.9
42.5°	9477.4	9484.0	9676.5	9941.4	10031.9	9997.3	9595.9	9449.4	9271.7	9737.4	6596.3
45°	8664.6	8834.0	9084.1	9785.1	10400.4	10978.0	10899.0	10655.5	9831.1	10313.2	6876.0
47.5°	7368.0	7361.4	7771.1	8682.7	10050.0	11402.5	11761.2	11590.1	10227.7	10249.1	6818.5
48°	6889.2	7007.7	7430.5	8503.3	9827.9	11340.0	11838.5	11623.0	10160.2	10163.5	6769.1
50°	5092.5	5071.1	5597.6	6913.9	8778.1	10655.5	11512.7	11680.6	10158.6	9730.8	6423.6
52.5°	2690.2	2782.3	3165.7	4347.1	6206.4	8720.5	10155.3	10416.9	9799.9	9023.3	5926.7
55°	1143.5	1033.3	1327.8	1962.9	3491.5	5826.3	7450.3	8032.7	8286.1	7985.0	5184.6
57.5°	408.1	445.9	513.4	738.8	1467.7	3188.7	4442.5	4895.0	5740.7	5859.2	3532.6
60°	261.6	266.6	287.9	338.9	551.2	1229.1	2107.7	2468.1	2851.4	2943.6	1648.7
62.5°	202.4	204.0	213.9	222.1	261.6	477.2	791.4	937.9	974.1	837.5	432.7
65°	169.5	171.1	174.4	174.4	185.9	223.8	276.4	304.4	296.2	292.9	245.2
67.5°	130.0	133.3	139.9	139.9	146.4	136.6	153.0	162.9	184.3	223.8	209.0
70°	102.0	103.7	108.6	111.9	111.9	98.7	110.2	120.1	134.9	166.2	164.5
72.5°	79.0	82.3	85.6	85.6	80.6	67.5	79.0	87.2	97.1	115.2	111.9
75°	60.9	60.9	62.5	51.0	39.5	34.6	47.7	57.6	72.4	75.7	62.5
77.5°	16.5	18.1	16.5	14.8	16.5	24.7	31.3	36.2	46.1	46.1	41.1
80°	0.0	1.6	4.9	9.9	16.5	23.0	28.0	31.3	36.2	39.5	37.8
82.5°	0.0	1.6	4.9	9.9	14.8	18.1	24.7	26.3	29.6	34.6	34.6
85°	0.0	1.6	3.3	6.6	9.9	11.5	11.5	9.9	9.9	8.2	6.6
87.5°	0.0	0.0	1.6	3.3	3.3	4.9	4.9	4.9	4.9	4.9	4.9
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: P528851

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5
2.5°	3276.0	3224.9	3147.6	3025.9	2909.0	2833.3	2760.9	2680.3	2635.9	2632.6	2607.9
5°	3315.4	3200.3	3016.0	2807.0	2583.2	2390.7	2196.6	2069.9	1956.4	1893.8	1882.3
7.5°	3336.8	3187.1	2889.3	2538.8	2157.1	1842.8	1625.6	1466.0	1403.5	1357.4	1355.8
10°	3381.3	3164.1	2700.1	2183.4	1711.2	1393.6	1243.9	1171.5	1137.0	1123.8	1104.1
12.5°	3414.2	3121.3	2505.9	1818.1	1352.5	1155.1	1089.2	1072.8	1074.4	1081.0	1072.8
15°	3460.2	3083.4	2244.3	1492.4	1135.3	1039.9	1039.9	1043.2	1066.2	1069.5	1067.9
17.5°	3456.9	3009.4	1974.5	1229.1	1003.7	990.5	995.5	1026.7	1041.5	1046.5	1034.9
20°	3496.4	2940.3	1696.4	1049.8	929.6	949.4	982.3	990.5	1008.6	1011.9	998.7
22.5°	3484.9	2767.5	1438.1	908.2	873.7	911.5	944.4	954.3	949.4	939.5	937.9
25°	3463.5	2619.4	1201.1	814.5	832.6	873.7	905.0	886.9	877.0	878.6	880.3
27.5°	3425.7	2431.9	1005.3	748.6	776.6	837.5	835.9	829.3	839.1	830.9	839.1
30°	3419.1	2244.3	844.1	689.4	735.5	779.9	783.2	794.7	806.2	791.4	806.2
32.5°	3429.0	2038.6	728.9	653.2	710.8	712.4	748.6	760.2	751.9	719.0	722.3
35°	3504.7	1880.7	645.0	633.5	671.3	673.0	707.5	692.7	656.5	636.8	648.3
37.5°	3664.3	1749.0	605.5	615.4	618.7	640.1	641.7	612.1	615.4	613.7	620.3
40°	3868.3	1648.7	577.5	598.9	595.6	610.4	551.2	567.7	582.5	587.4	590.7
42.5°	4008.1	1576.3	559.4	572.6	566.0	539.7	506.8	523.2	534.7	552.8	556.1
45°	4070.7	1518.7	538.0	526.5	526.5	478.8	465.6	468.9	495.3	515.0	511.7
47.5°	3968.7	1462.7	500.2	465.6	477.2	437.7	422.9	422.9	450.8	475.5	470.6
48°	3929.2	1439.7	501.8	452.5	460.7	431.1	416.3	413.0	444.3	467.3	467.3
50°	3733.4	1354.1	459.1	416.3	399.8	396.5	386.7	390.0	409.7	431.1	431.1
52.5°	3351.6	1169.9	388.3	357.0	327.4	347.2	352.1	345.5	355.4	375.1	373.5
55°	2797.1	898.4	311.0	296.2	273.1	294.5	304.4	296.2	286.3	301.1	301.1
57.5°	1791.8	483.7	248.5	251.7	228.7	250.1	258.3	238.6	220.5	232.0	230.4
60°	807.9	289.6	204.0	199.1	184.3	209.0	222.1	199.1	174.4	182.6	190.9
62.5°	302.7	205.7	154.7	151.4	148.1	171.1	177.7	159.6	134.9	139.9	141.5
65°	222.1	181.0	123.4	111.9	118.5	134.9	131.6	113.5	97.1	97.1	100.4
67.5°	189.2	158.0	100.4	87.2	87.2	88.9	82.3	72.4	67.5	70.8	74.0
70°	148.1	125.0	79.0	67.5	60.9	54.3	47.7	46.1	41.1	46.1	44.4
72.5°	95.4	83.9	60.9	51.0	46.1	37.8	31.3	29.6	24.7	23.0	23.0
75°	51.0	51.0	47.7	41.1	36.2	29.6	24.7	19.7	13.2	9.9	9.9
77.5°	36.2	39.5	42.8	39.5	32.9	24.7	19.7	13.2	6.6	3.3	3.3
80°	34.6	39.5	42.8	37.8	32.9	24.7	18.1	9.9	4.9	1.6	1.6
82.5°	31.3	36.2	39.5	34.6	29.6	21.4	16.5	9.9	4.9	1.6	1.6
85°	6.6	8.2	9.9	9.9	11.5	14.8	11.5	8.2	3.3	1.6	1.6
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	3.3	3.3	1.6	1.6	1.6
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)