

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: P648046

Luminaire Tested: **GALN-SA7A-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24720.1 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

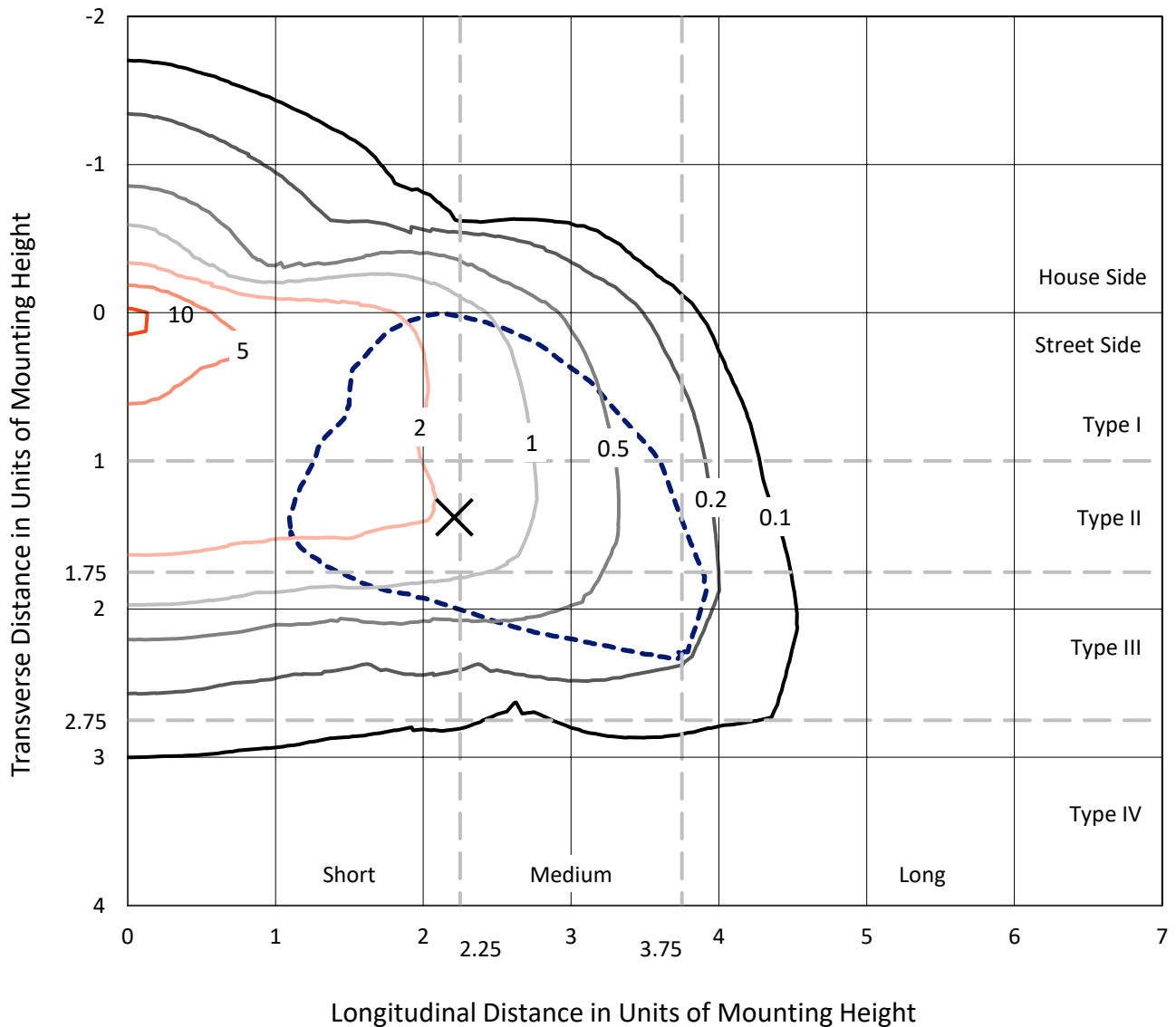
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

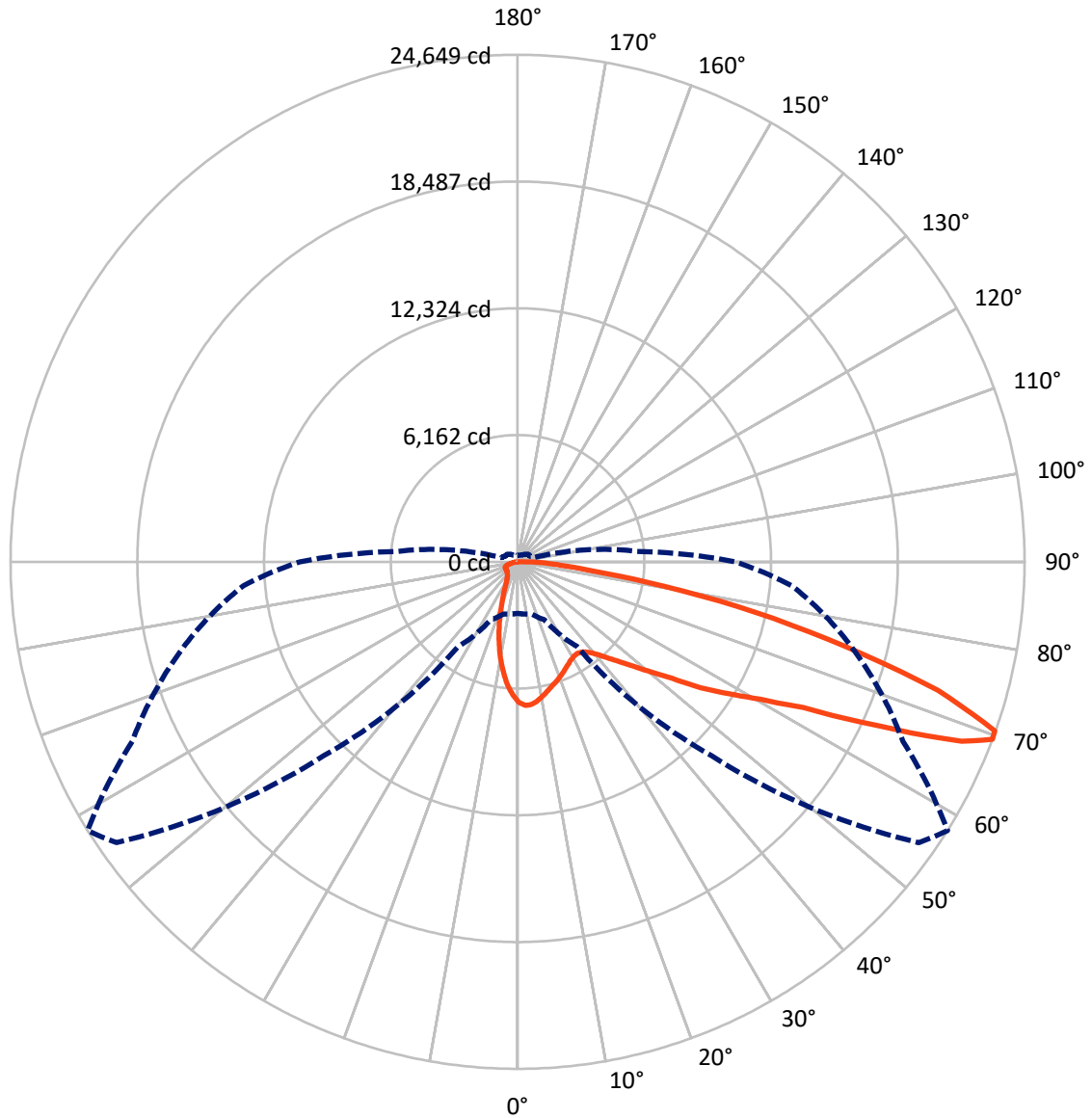
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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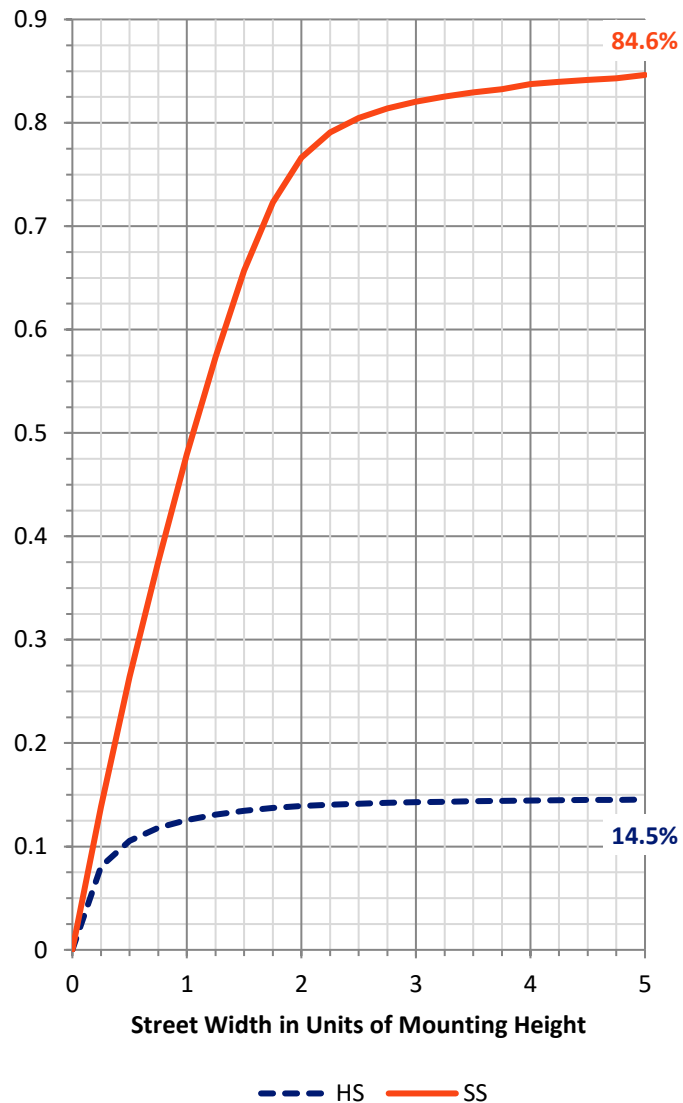
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3622.7	0.0	3622.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21097.4	0.0	21097.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	24720.1	0.0	24720.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.1	2.3
10°-20°	1273.9	5.2
20°-30°	1645.9	6.7
30°-40°	2137.7	8.6
40°-50°	3107.8	12.6
50°-60°	4959.1	20.1
60°-70°	6624.7	26.8
70°-80°	3818.9	15.4
80°-90°	572.0	2.3
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°	24720.1	100.0
0°-180°	24720.1	100.0

Coefficient of Utilization



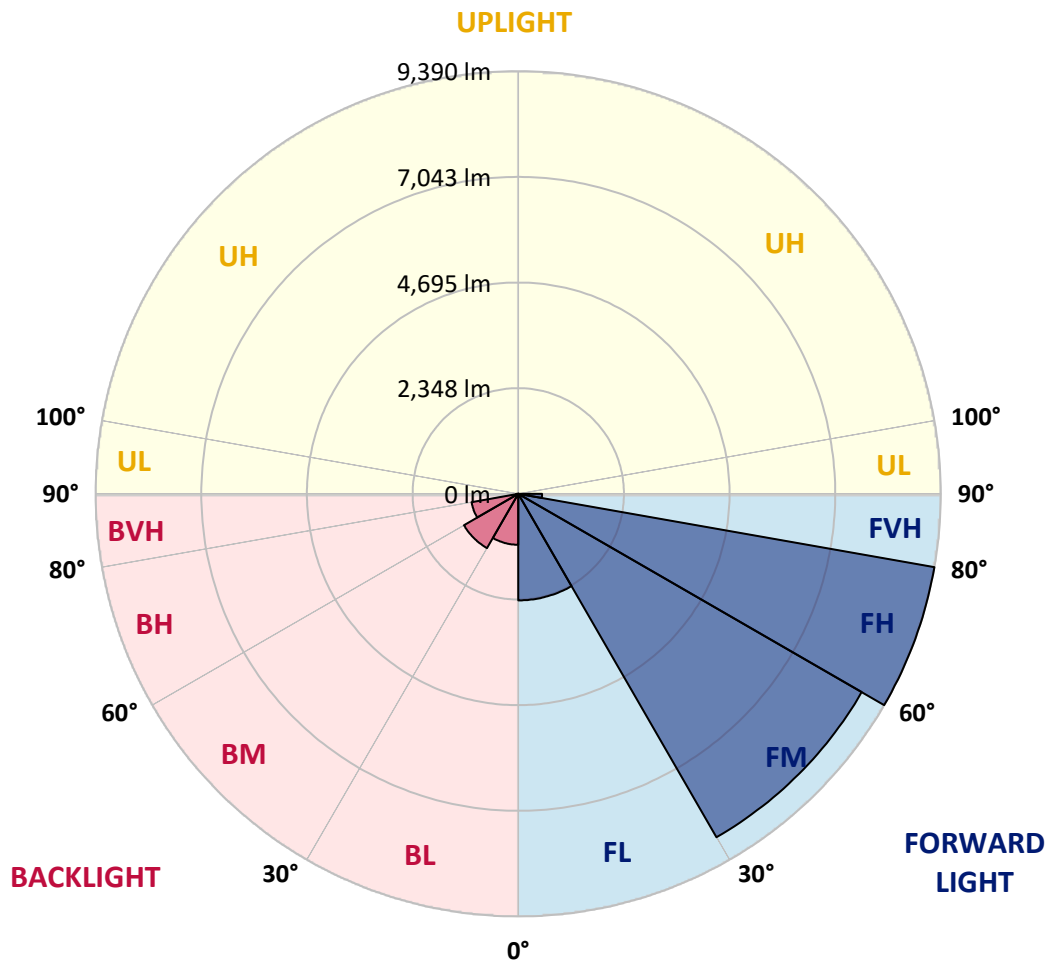
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2367.6	9.6			
FM (30°-60°)	8811.4	35.6			
FH (60°-80°)	9390.2	38.0			G4/12000
FVH (80°-90°)	528.2	2.1			G4/750
BL (0°-30°)	1132.3	4.6	B3/2500		
BM (30°-60°)	1393.2	5.6	B2/2500		
BH (60°-80°)	1053.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	43.8	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2
2.5°	7084.8	7104.2	7098.7	7091.8	7080.7	7050.4	7000.7	6992.5	6960.8	6893.2	6809.1
5°	6976.0	6992.5	6993.8	7003.5	7017.3	7011.8	6976.0	6971.8	6924.9	6833.9	6693.3
7.5°	6602.3	6624.4	6672.6	6726.4	6774.7	6820.2	6831.2	6838.1	6809.1	6704.4	6516.8
10°	6181.9	6203.9	6225.9	6305.9	6424.5	6537.5	6631.3	6643.7	6650.6	6554.1	6325.2
12.5°	5715.9	5761.4	5808.2	5926.8	6085.3	6263.2	6428.6	6454.8	6501.7	6428.6	6159.8
15°	5320.2	5367.1	5434.6	5540.7	5732.4	5988.9	6221.8	6264.5	6356.9	6319.7	6005.4
17.5°	5045.8	5062.4	5109.2	5230.6	5437.4	5707.6	6019.2	6104.7	6252.2	6242.5	5873.0
20°	4829.4	4850.1	4879.0	4953.5	5168.5	5453.9	5830.3	5940.5	6140.5	6173.6	5742.1
22.5°	4738.4	4753.6	4749.4	4789.4	4935.6	5222.3	5638.7	5769.6	6041.2	6126.7	5620.8
25°	4743.9	4757.7	4737.0	4727.4	4814.2	5018.2	5438.7	5605.6	5961.3	6095.0	5510.4
27.5°	4836.3	4845.9	4807.3	4768.7	4775.6	4891.4	5273.3	5458.1	5893.7	6108.8	5418.0
30°	4960.4	4978.3	4953.5	4906.6	4855.6	4861.1	5167.2	5349.1	5862.0	6157.0	5374.0
32.5°	5120.3	5136.8	5125.8	5088.6	5022.4	4949.3	5140.9	5309.1	5864.7	6254.9	5364.3
35°	5288.5	5321.6	5339.5	5336.8	5283.0	5156.1	5244.4	5383.6	5930.9	6419.0	5420.9
37.5°	5478.7	5506.3	5583.5	5633.1	5583.5	5436.0	5477.3	5573.9	6077.1	6656.1	5544.9
40°	5663.4	5704.9	5817.8	5972.3	5953.0	5823.4	5833.0	5896.5	6334.9	7009.0	5787.5
42.5°	5856.4	5906.1	6103.3	6332.1	6377.6	6277.0	6303.2	6359.7	6701.6	7498.5	6203.9
45°	6104.7	6163.9	6406.6	6691.9	6871.1	6809.1	6883.6	6911.1	7192.4	8135.4	6752.6
47.5°	6424.5	6493.4	6792.6	7148.2	7401.9	7458.5	7588.1	7571.5	7800.4	8889.5	7463.9
50°	6963.5	7002.1	7284.8	7647.3	7996.2	8251.2	8391.8	8418.0	8554.5	9622.9	8259.5
52.5°	7604.6	7639.1	7843.1	8160.2	8597.3	9137.7	9485.1	9399.6	9432.7	10516.3	9190.1
55°	8325.6	8383.5	8513.2	8724.0	9290.7	10086.1	10783.8	10804.5	10437.7	11371.0	10082.1
57.5°	8884.0	8981.9	9203.9	9504.4	10222.7	11140.8	12078.3	12092.1	11623.3	12283.7	11066.4
60°	8602.7	8718.5	9225.9	9958.0	11445.5	12981.4	13625.1	13546.6	12777.3	13323.2	12267.2
62.5°	7389.6	7410.2	8147.8	9292.1	11821.9	15443.6	15927.5	15595.2	14317.2	14641.2	13487.3
65°	4782.5	4917.6	5502.1	7105.6	10585.2	16809.8	19961.4	19193.5	16476.2	16137.0	14508.8
67.5°	3019.2	2984.8	3227.4	4057.3	7280.6	15606.3	23403.9	23282.6	19299.6	17081.4	14264.9
69°	2503.6	2542.2	2624.9	3110.2	5010.0	13324.6	23810.6	24648.8	20668.6	17007.0	13378.3
70°	2270.6	2288.6	2375.4	2757.3	3865.7	11160.1	23143.3	24611.6	21206.3	16695.4	12735.9
72.5°	1801.9	1800.5	1949.4	2294.0	2889.7	6370.7	19003.3	21367.6	20605.2	15245.1	10523.2
75°	1369.0	1391.1	1555.1	1941.1	2662.2	3481.1	13261.2	16455.5	16456.9	12041.1	6566.5
77.5°	987.1	1000.9	1192.5	1629.6	2507.8	2822.1	8832.9	11802.6	11095.3	5517.3	2063.8
80°	646.6	654.8	801.0	1290.4	2261.0	2662.2	5237.5	7224.1	5233.3	1464.1	682.5
82.5°	354.3	395.6	489.5	835.5	1814.3	2459.5	3183.3	3656.1	1963.2	652.1	355.7
85°	177.8	188.9	275.7	488.0	1185.6	2034.9	2216.8	2097.0	1013.3	324.0	184.7
87.5°	52.4	66.2	114.4	188.9	481.2	1060.2	1233.9	1107.1	390.2	117.2	38.6
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°	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2	6831.2
2.5°	6774.7	6749.9	6639.5	6540.3	6449.3	6352.8	6271.4	6199.8	6206.7	6208.0	6135.0
5°	6620.3	6563.7	6354.2	6158.4	5993.0	5783.4	5604.2	5488.4	5430.5	5353.3	5380.9
7.5°	6410.7	6301.8	6010.9	5685.5	5380.9	5109.2	4814.2	4611.6	4482.0	4356.5	4373.1
10°	6194.2	6019.2	5595.9	5165.8	4771.5	4337.2	3960.9	3638.2	3398.4	3308.7	3249.5
12.5°	5972.3	5742.1	5204.4	4632.2	4087.7	3567.9	3034.4	2688.4	2423.6	2283.1	2300.9
15°	5769.6	5489.8	4796.3	4098.7	3391.5	2772.4	2240.3	1910.8	1726.0	1687.4	1709.5
17.5°	5582.2	5215.4	4414.4	3580.3	2754.5	2079.0	1683.3	1497.2	1422.8	1402.1	1400.7
20°	5389.2	4982.4	3985.6	3026.1	2146.5	1611.6	1381.4	1294.5	1280.8	1289.1	1290.4
22.5°	5193.3	4694.3	3544.5	2476.1	1709.5	1317.9	1207.7	1184.3	1195.2	1214.6	1217.3
25°	5012.8	4440.6	3119.9	1993.5	1364.8	1158.1	1104.3	1104.3	1129.1	1158.1	1159.5
27.5°	4863.8	4195.2	2696.7	1582.7	1142.9	1042.3	1024.3	1034.0	1068.5	1090.5	1091.9
30°	4741.1	3966.4	2296.9	1268.4	1005.1	949.9	945.8	962.3	987.1	1007.8	1009.1
32.5°	4648.8	3765.1	1923.2	1065.7	909.9	879.5	878.2	890.6	904.4	909.9	915.4
35°	4613.0	3598.3	1581.3	937.5	846.5	827.2	827.2	825.8	831.3	834.1	836.9
37.5°	4641.9	3470.0	1316.6	854.7	799.6	785.8	777.5	769.3	766.6	766.6	767.9
40°	4764.6	3402.5	1119.5	801.0	766.6	745.9	730.7	721.1	711.4	714.2	716.9
42.5°	5025.1	3414.9	985.7	765.1	737.6	708.6	686.5	675.6	668.7	676.9	675.6
45°	5440.1	3539.0	900.3	740.3	708.6	671.4	650.8	639.7	639.7	652.1	656.2
47.5°	6020.6	3776.1	854.7	721.1	686.5	642.5	621.8	613.5	616.2	637.0	638.3
50°	6729.2	4188.3	846.5	711.4	675.6	621.8	598.4	590.1	597.0	619.0	621.8
52.5°	7510.8	4719.1	886.4	712.8	665.9	609.3	579.0	566.7	573.5	591.4	597.0
55°	8437.3	5383.6	989.9	718.2	652.1	602.4	565.2	537.7	545.9	558.4	559.8
57.5°	9383.1	6221.8	1171.8	719.7	641.0	590.1	541.8	506.0	506.0	514.2	518.3
60°	10538.4	7134.5	1411.7	721.1	642.5	572.1	510.1	470.1	464.6	468.7	470.1
62.5°	11685.4	7898.3	1451.7	716.9	656.2	554.2	475.6	434.3	424.6	423.2	420.5
65°	12191.4	7756.2	1189.8	697.6	671.4	543.2	448.0	399.8	383.3	377.7	377.7
67.5°	11367.0	6561.0	894.7	671.4	661.7	532.1	421.9	370.8	351.6	340.5	340.5
69°	10592.1	5835.8	803.7	653.5	637.0	514.2	405.4	355.7	332.2	319.9	315.7
70°	9993.8	5336.8	765.1	638.3	613.5	493.5	392.9	344.7	318.4	304.7	301.9
72.5°	7975.5	4186.9	670.0	580.4	522.5	415.0	348.8	310.2	285.4	270.2	266.1
75°	4596.4	2269.2	555.6	504.6	420.5	322.6	295.0	270.2	251.0	237.1	233.0
77.5°	1414.5	876.8	402.5	398.4	308.8	249.5	235.8	226.1	212.3	197.2	194.4
80°	595.5	446.7	273.0	268.8	205.4	173.7	169.6	168.2	162.7	150.3	146.1
82.5°	326.7	252.3	190.3	165.4	124.1	100.6	104.8	106.2	102.0	89.6	81.4
85°	159.9	137.9	92.4	74.5	56.5	35.9	34.5	41.3	38.6	27.6	30.3
87.5°	31.7	38.6	24.8	11.0	5.5	0.0	0.0	0.0	0.0	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)