

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: P652448

Luminaire Tested: **GALN-SA6B-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27776.6 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

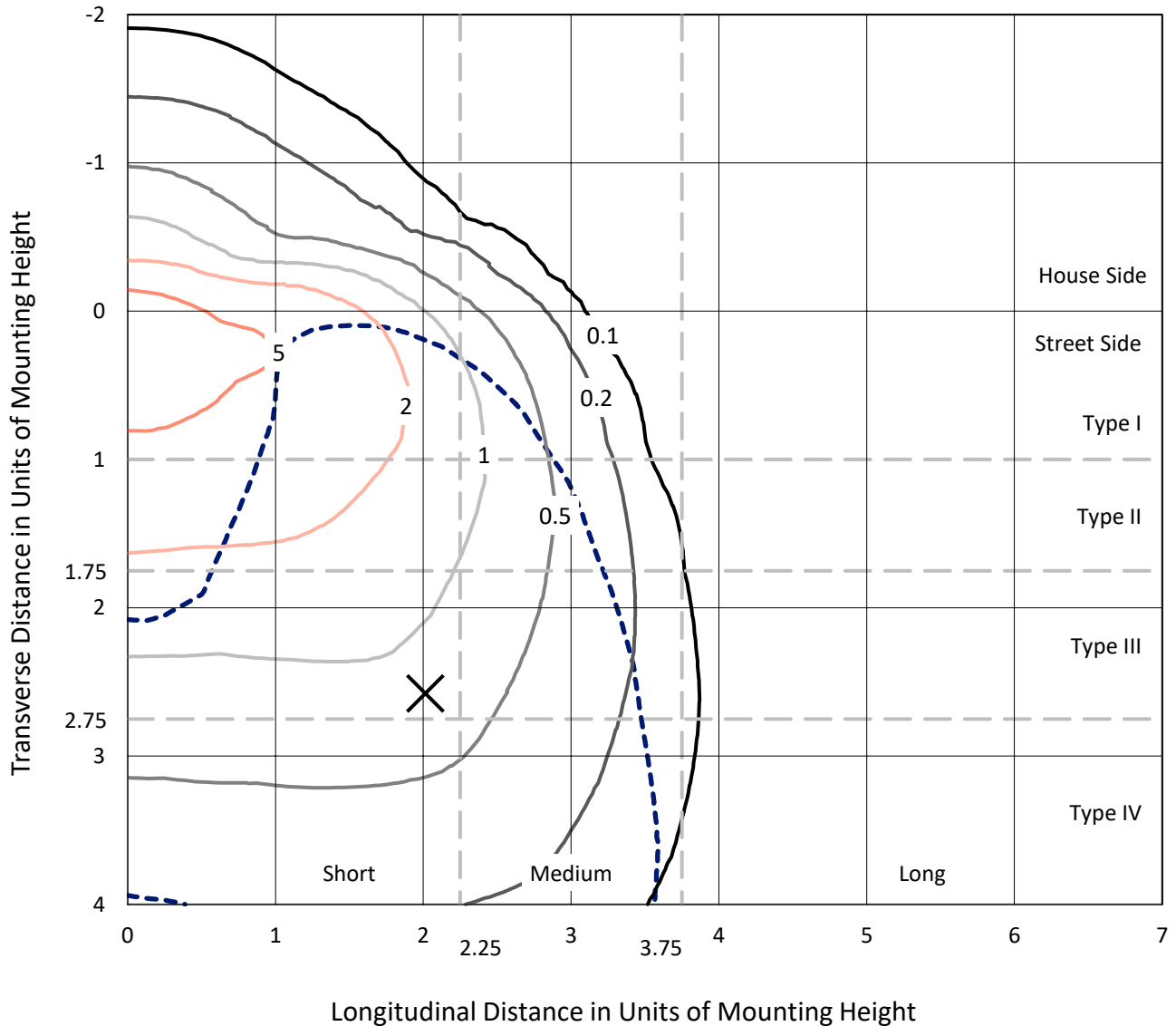
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

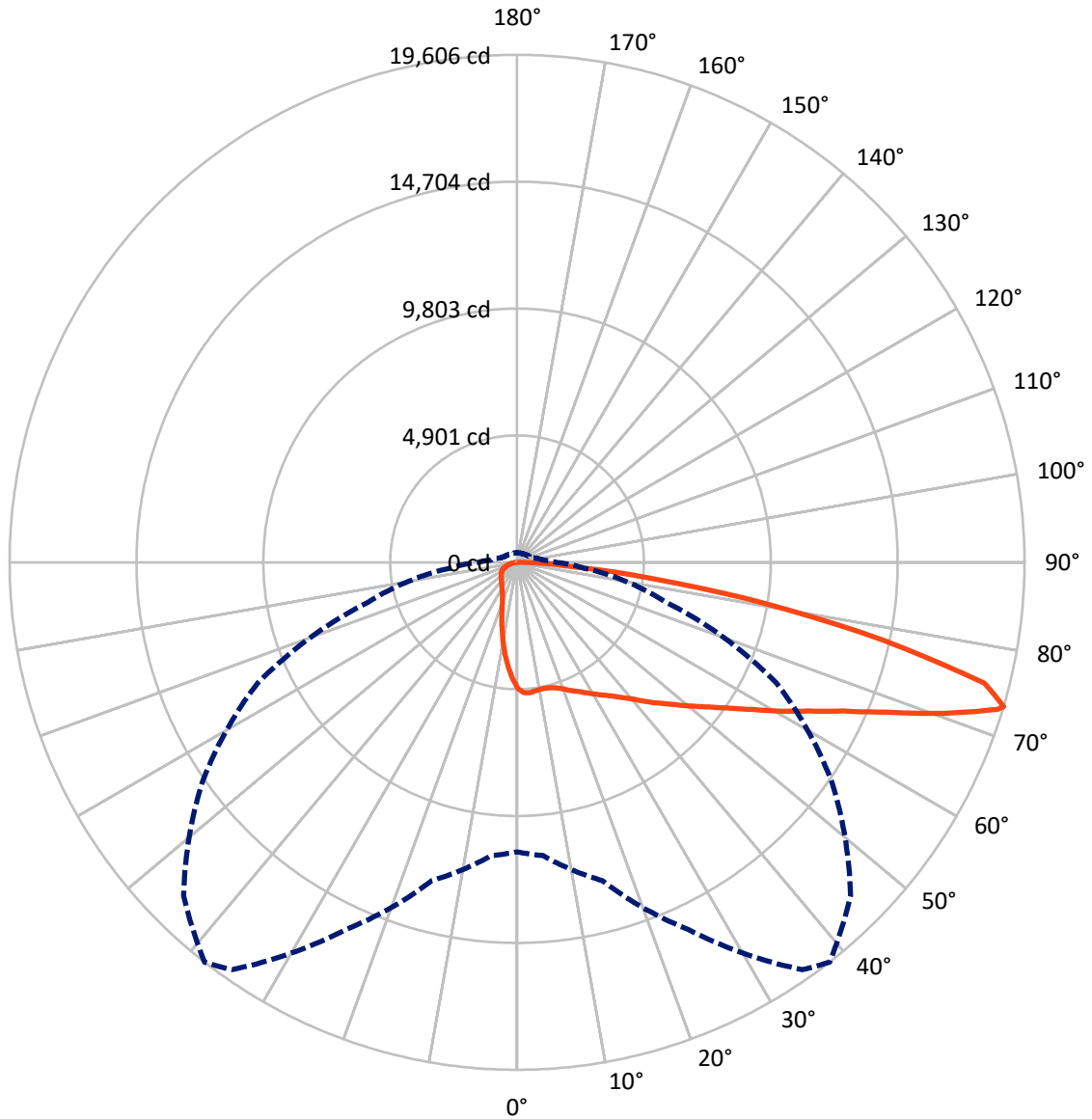
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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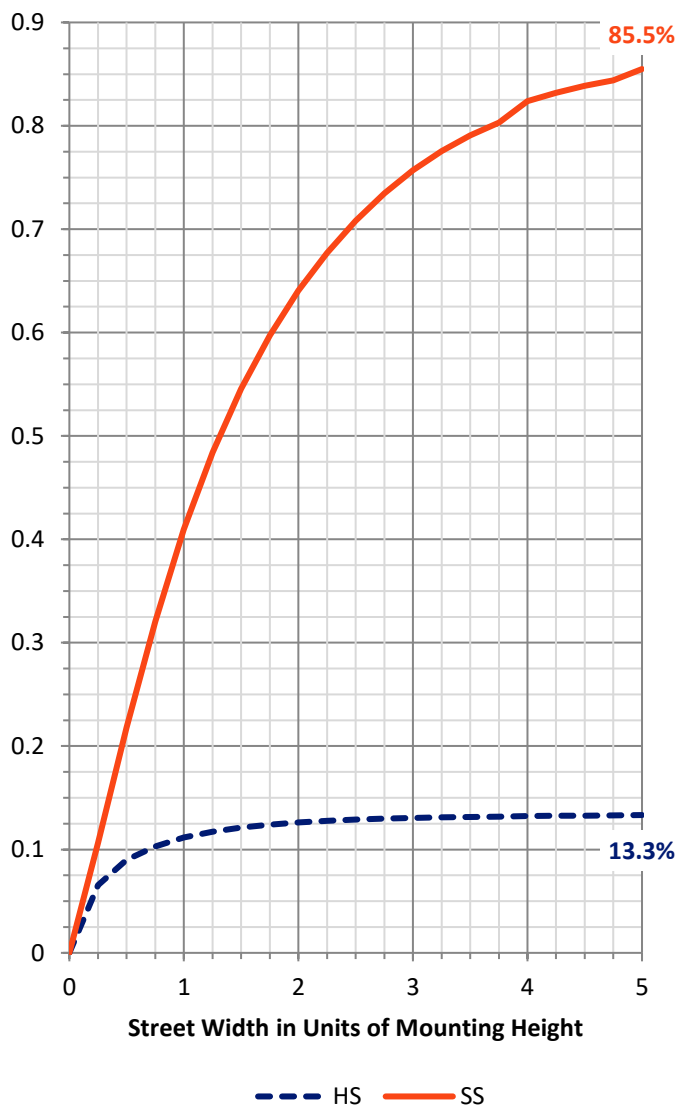
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3734.0	0.0	3734.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24042.6	0.0	24042.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	27776.6	0.0	27776.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	1.5
10°-20°	1092.3	3.9
20°-30°	1700.9	6.1
30°-40°	2494.9	9.0
40°-50°	3700.8	13.3
50°-60°	5243.4	18.9
60°-70°	6651.3	23.9
70°-80°	5536.7	19.9
80°-90°	930.3	3.3
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°	27776.6	100.0
0°-180°	27776.6	100.0

Coefficient of Utilization

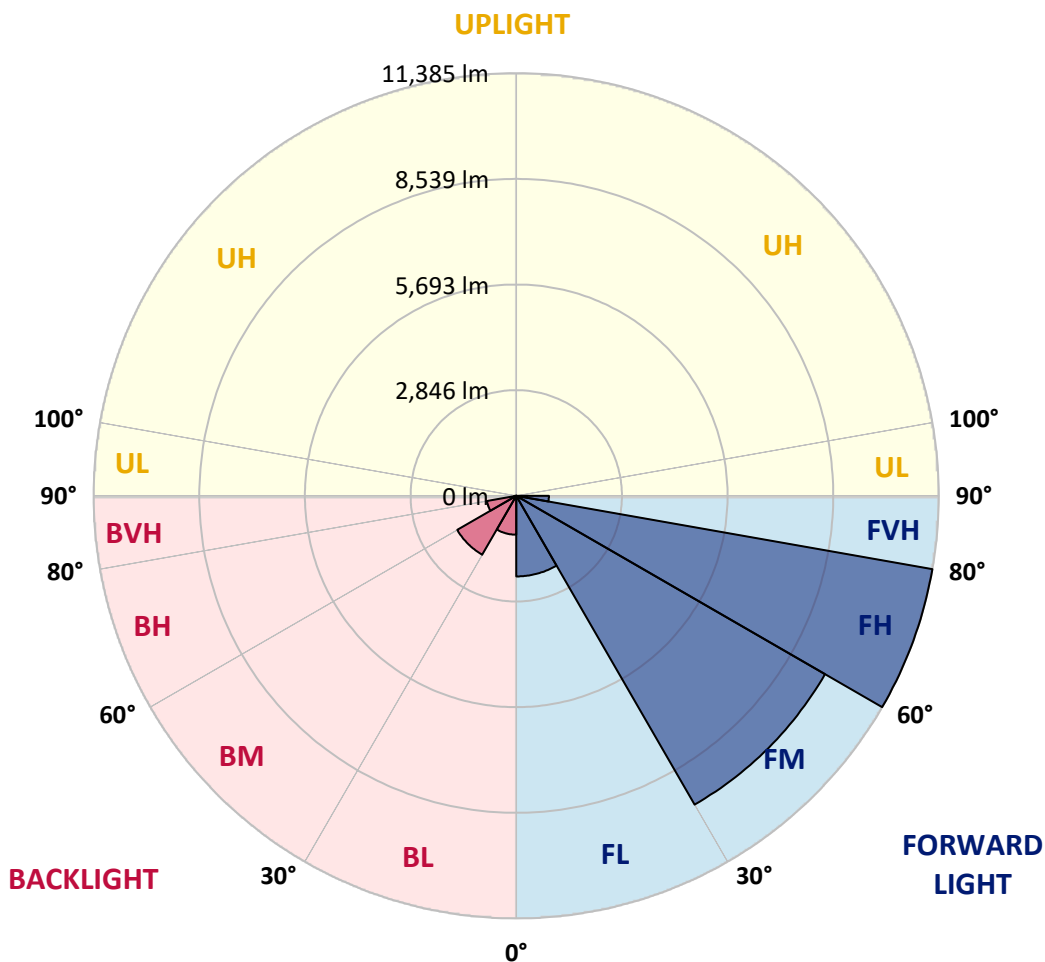


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2171.4	7.8			
FM (30°-60°)	9605.9	34.6			
FH (60°-80°)	11385.5	41.0			G4/12000
FVH (80°-90°)	879.8	3.2			G5
BL (0°-30°)	1047.8	3.8	B3/2500		
BM (30°-60°)	1833.2	6.6	B2/2500		
BH (60°-80°)	802.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	50.4	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9
2.5°	5075.9	5101.0	5088.5	5071.2	5060.3	5049.3	5033.6	4988.1	4952.1	4912.8	4851.6
5°	5113.6	5129.3	5118.3	5096.3	5071.2	5060.3	5030.4	4970.8	4912.8	4846.9	4755.9
7.5°	5091.7	5097.9	5085.4	5058.7	5036.7	5016.3	4981.8	4916.0	4845.3	4765.4	4646.2
10°	5013.2	5036.7	5036.7	5014.8	4992.8	4981.8	4947.4	4884.6	4820.3	4729.3	4588.1
12.5°	4948.9	4974.0	4994.4	4988.1	4986.5	4986.5	4959.9	4912.8	4837.5	4751.2	4583.4
15°	4905.0	4934.7	4978.7	5003.8	5019.5	5024.2	5013.2	4972.4	4895.5	4795.1	4602.2
17.5°	4895.5	4931.6	5011.6	5066.5	5107.3	5105.7	5102.6	5046.2	4961.4	4857.9	4625.8
20°	4937.9	4984.9	5096.3	5182.6	5242.2	5231.3	5213.9	5140.3	5041.5	4925.3	4647.7
22.5°	5064.9	5113.6	5235.9	5330.1	5388.1	5388.1	5336.3	5239.1	5134.0	5003.8	4677.6
25°	5246.9	5300.2	5430.4	5526.1	5552.8	5532.4	5480.6	5363.0	5242.2	5116.7	4740.3
27.5°	5469.7	5533.9	5654.7	5734.8	5726.9	5711.2	5657.9	5507.3	5386.5	5272.0	4846.9
30°	5747.3	5794.3	5919.8	5938.6	5910.5	5907.3	5832.0	5681.4	5568.5	5480.6	4999.1
32.5°	6009.3	6051.6	6152.0	6159.8	6109.6	6115.9	6045.4	5907.3	5843.0	5811.6	5254.7
35°	6286.9	6308.8	6395.1	6385.7	6352.7	6348.0	6319.9	6188.1	6208.4	6264.9	5617.1
37.5°	6519.0	6563.0	6611.6	6619.4	6617.8	6633.6	6652.4	6589.7	6707.3	6884.5	6092.4
40°	6732.4	6770.0	6842.2	6867.3	6928.4	6959.8	7024.1	7025.7	7297.0	7588.8	6677.5
42.5°	6876.7	6941.0	7075.9	7121.3	7270.4	7364.5	7460.2	7562.2	7955.9	8330.8	7367.7
45°	7002.2	7086.9	7311.1	7452.4	7654.7	7769.2	7971.6	8184.9	8751.1	9242.1	8068.8
47.5°	7192.0	7267.2	7524.5	7773.9	8079.8	8211.5	8514.3	8832.7	9573.1	10111.1	8740.2
50°	7455.5	7501.0	7762.9	8169.2	8559.8	8729.2	9129.1	9588.7	10451.4	10969.1	9330.0
52.5°	7792.7	7811.5	8020.2	8561.4	9075.8	9286.0	9816.2	10352.6	11220.1	11714.2	9797.4
55°	8191.2	8159.8	8322.9	8977.0	9665.6	9940.1	10509.6	11126.0	12084.4	12316.5	10137.8
57.5°	8584.8	8536.2	8666.4	9482.1	10393.4	10724.4	11387.9	11922.9	12856.1	12879.7	10376.2
60°	9002.1	8966.1	9121.3	10075.0	11286.0	11678.1	12291.5	12749.5	13602.8	13271.8	10413.9
62.5°	9430.3	9372.3	9593.5	10741.7	12291.5	12647.5	13242.0	13627.9	14335.3	13417.7	10051.5
65°	9846.0	9819.3	10161.3	11533.8	13436.5	13841.2	14418.4	14680.4	14921.9	13198.1	9152.7
67.5°	10288.4	10341.7	10887.6	12591.0	14929.8	15438.0	16060.7	15814.5	15089.8	12158.1	7708.0
70°	10962.9	10997.3	11841.3	13976.1	16854.5	17467.7	17768.9	16217.6	14280.4	10183.2	5794.3
72.5°	11253.0	11405.2	12693.0	15430.2	19041.1	19415.9	18343.1	15318.8	11896.1	6917.5	3044.6
73°	11188.7	11370.7	12732.2	15651.3	19212.1	19605.7	18220.7	14856.1	11058.6	5957.5	2610.1
75°	10387.2	10611.5	12222.4	15466.2	18879.5	18644.2	16253.7	12661.6	7472.7	2708.9	1189.0
77.5°	8195.9	8260.1	9684.5	12489.1	14867.0	14431.0	12164.4	7913.5	3052.5	1007.0	674.5
80°	4111.2	4348.1	5458.7	7154.3	9941.7	9798.9	7678.2	3742.6	1272.1	591.4	447.1
82.5°	1977.9	2145.8	2658.7	3488.6	5493.2	5363.0	3802.2	2045.4	807.8	345.1	263.5
85°	1273.7	1399.2	1692.5	1664.3	2258.8	2156.8	1708.2	1548.2	478.4	180.4	183.5
87.5°	840.7	920.7	1104.3	883.1	821.9	743.5	754.5	872.1	94.1	69.0	25.1
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°	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9	4879.9
2.5°	4826.5	4806.1	4738.7	4672.8	4610.1	4550.5	4511.3	4459.5	4425.0	4434.4	4448.5
5°	4705.7	4660.2	4541.1	4425.0	4315.2	4185.0	4079.9	3995.2	3930.8	3907.4	3902.7
7.5°	4578.7	4501.9	4330.9	4131.7	3945.0	3783.4	3596.8	3504.2	3396.0	3358.4	3345.8
10°	4501.9	4398.3	4158.3	3880.7	3599.9	3331.7	3129.4	2964.6	2815.6	2787.4	2773.3
12.5°	4479.8	4343.4	4020.3	3662.6	3289.3	2959.9	2660.3	2443.9	2299.5	2266.6	2218.0
15°	4467.3	4297.9	3891.6	3443.1	2969.3	2567.7	2252.5	2000.0	1868.2	1780.3	1781.9
17.5°	4456.4	4246.1	3747.3	3203.0	2693.3	2230.5	1882.3	1654.8	1534.1	1487.1	1482.3
20°	4440.6	4185.0	3581.1	2950.5	2378.0	1923.1	1607.8	1438.4	1356.8	1317.6	1316.1
22.5°	4434.4	4125.4	3417.9	2693.3	2098.8	1686.2	1425.8	1306.7	1254.9	1228.2	1228.2
25°	4450.1	4083.1	3246.9	2448.6	1851.0	1483.9	1300.4	1218.8	1189.0	1174.9	1170.2
27.5°	4498.7	4064.2	3077.6	2203.8	1623.5	1345.9	1215.7	1159.2	1137.2	1126.3	1127.8
30°	4591.3	4062.6	2911.3	1962.3	1454.1	1240.7	1148.2	1109.0	1091.7	1085.5	1083.9
32.5°	4740.3	4097.2	2748.1	1763.1	1311.4	1152.9	1085.5	1057.2	1049.4	1044.7	1043.1
35°	4992.8	4194.4	2586.6	1581.2	1201.5	1074.5	1025.9	1011.7	1000.8	1005.5	1007.0
37.5°	5333.2	4362.3	2432.8	1438.4	1118.4	1016.4	975.6	963.1	956.8	961.5	966.2
40°	5789.6	4603.8	2304.3	1323.9	1058.8	967.8	931.7	920.7	914.5	922.3	923.9
42.5°	6293.2	4883.0	2197.6	1234.5	1010.2	927.0	892.6	879.9	875.2	879.9	881.5
45°	6810.8	5207.7	2142.7	1170.2	969.4	897.3	861.2	847.1	836.0	832.9	837.6
47.5°	7320.6	5490.0	2141.1	1131.0	936.5	870.6	831.3	815.7	801.6	793.7	792.1
50°	7736.3	5714.3	2178.8	1113.7	908.2	840.7	801.6	785.8	767.1	751.3	754.5
52.5°	8050.0	5860.3	2196.0	1105.8	892.6	809.4	770.2	756.1	734.1	713.7	713.7
55°	8252.3	5894.7	2153.6	1098.0	879.9	776.4	734.1	721.6	699.6	679.2	679.2
57.5°	8321.4	5788.1	2001.5	1079.2	867.4	748.2	698.0	687.0	669.8	649.4	646.2
60°	8161.3	5427.3	1734.8	1022.7	842.3	718.4	658.8	654.1	647.8	630.6	629.0
62.5°	7544.9	4661.8	1444.7	949.0	800.0	687.0	622.8	630.6	635.3	625.9	624.3
65°	6519.0	3785.0	1234.5	847.1	743.5	643.1	583.5	603.9	616.5	616.5	613.3
67.5°	5287.7	2906.6	1040.0	759.2	672.9	583.5	539.6	555.3	564.7	561.5	569.4
70°	3758.3	1968.6	847.1	658.8	583.5	516.0	483.2	483.2	476.8	473.7	473.7
72.5°	1822.7	1124.7	687.0	550.6	497.3	440.8	414.1	403.1	390.6	389.0	381.1
73°	1523.1	1008.6	655.6	530.2	476.8	429.8	400.0	382.7	374.9	368.6	367.0
75°	927.0	765.5	547.4	447.1	406.3	370.2	343.5	327.8	320.0	315.3	313.7
77.5°	610.1	571.0	425.1	342.0	310.6	288.6	277.6	262.0	257.3	251.0	251.0
80°	454.9	436.1	304.3	241.5	222.8	203.9	200.7	197.6	185.1	177.3	174.1
82.5°	293.3	310.6	207.1	161.6	141.2	125.5	127.1	131.8	119.3	108.2	105.1
85°	208.7	224.3	125.5	73.8	59.6	51.7	58.0	51.7	53.3	42.4	34.5
87.5°	34.5	59.6	22.0	9.4	4.7	3.1	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)