

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: P651951

Luminaire Tested: **GALN-SA6A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651951
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-SA6A-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 22605.2 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

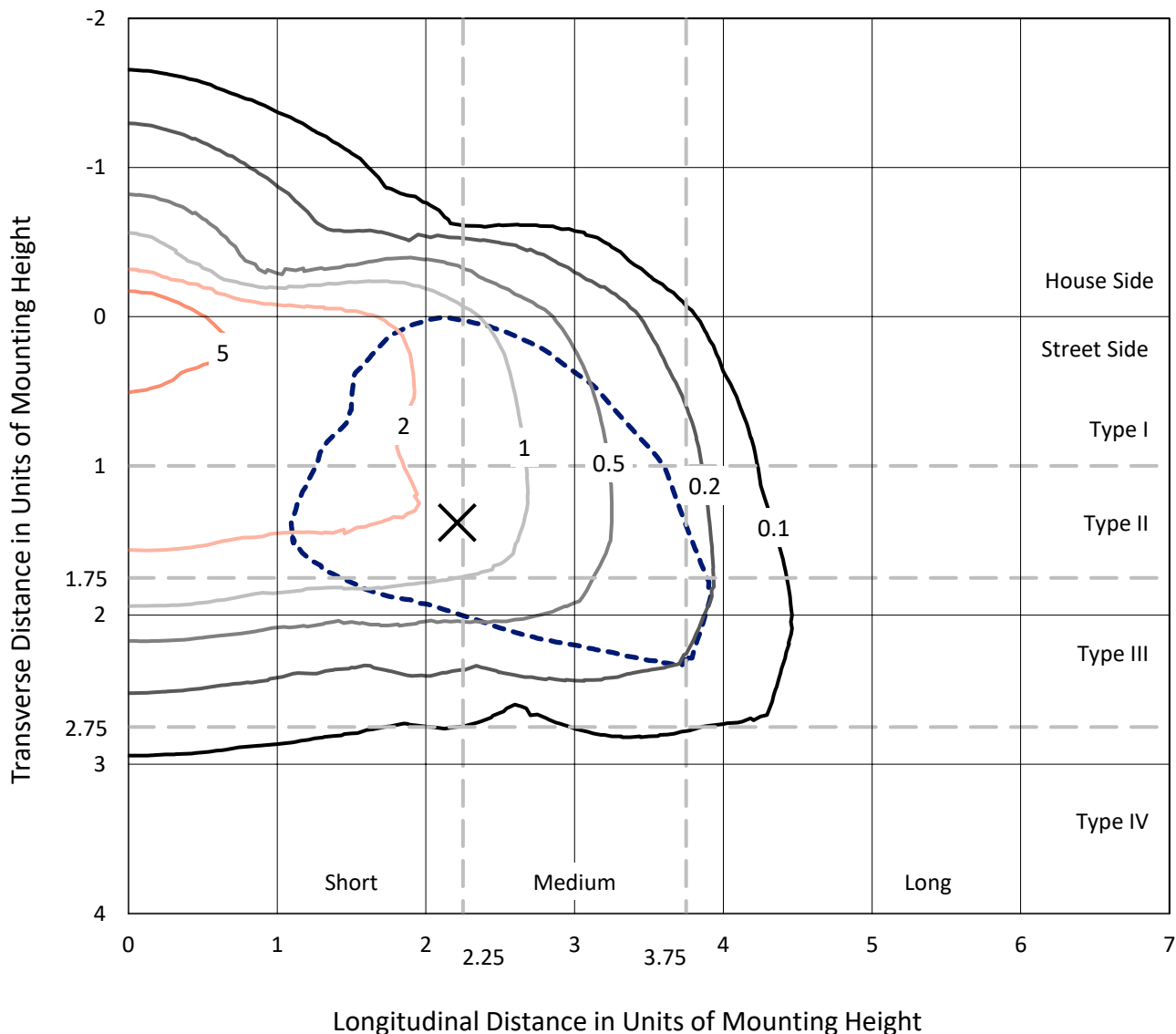
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

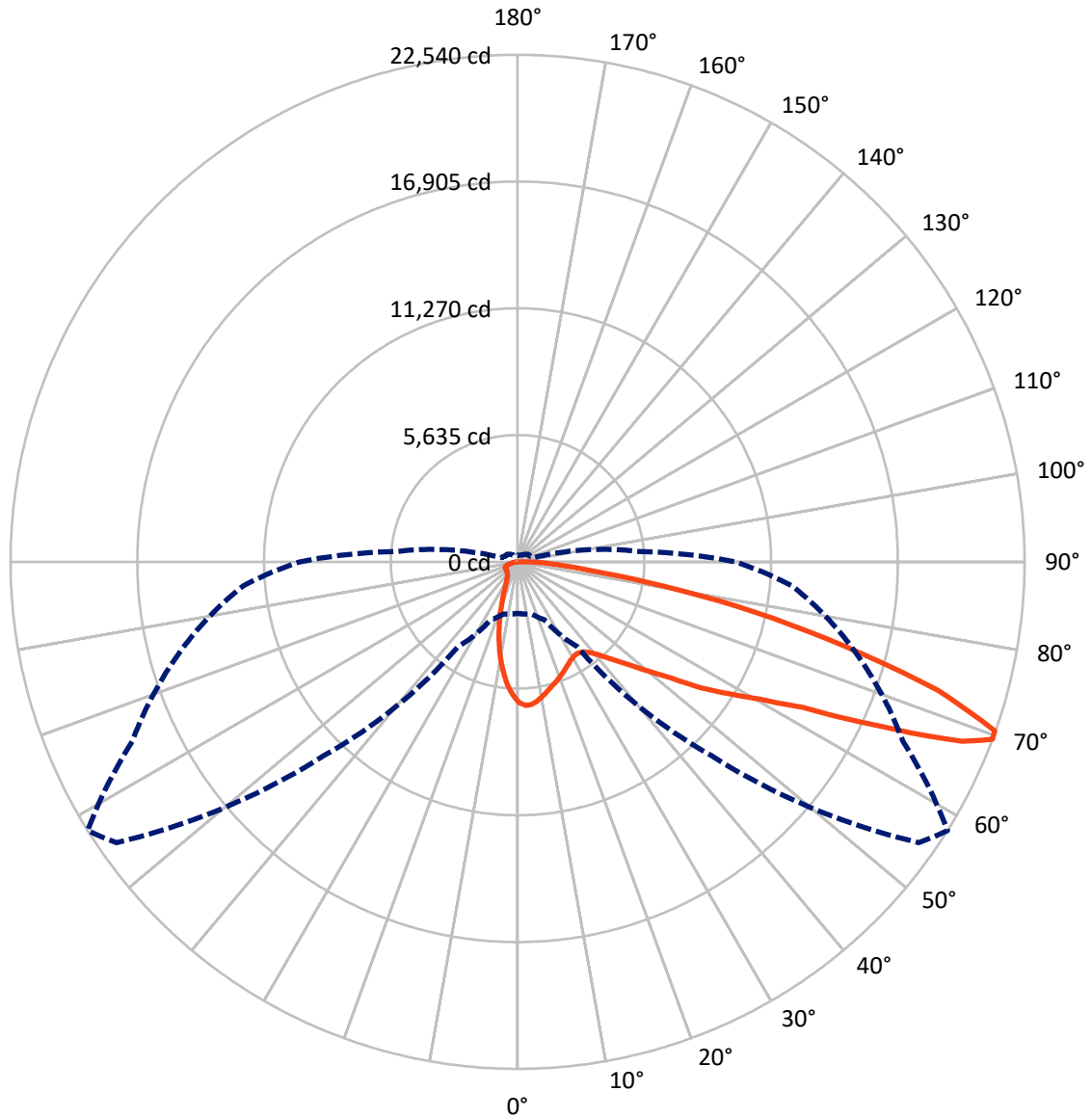
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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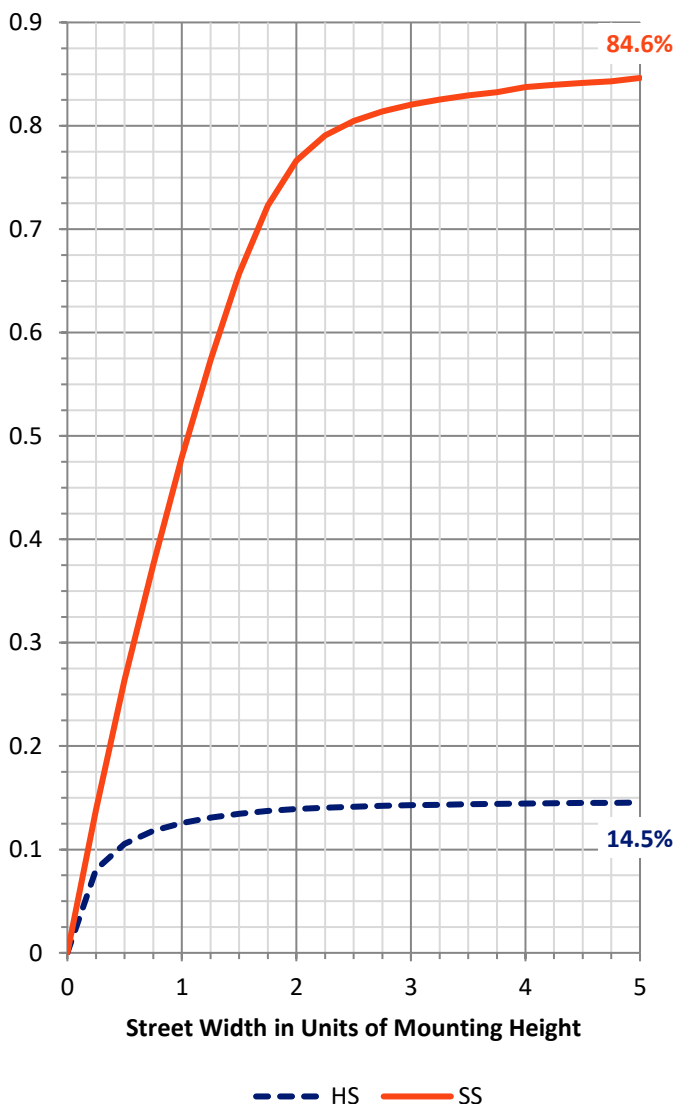
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3312.8	0.0	3312.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19292.4	0.0	19292.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	22605.2	0.0	22605.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.5	2.3
10°-20°	1164.9	5.2
20°-30°	1505.1	6.7
30°-40°	1954.8	8.6
40°-50°	2842.0	12.6
50°-60°	4534.8	20.1
60°-70°	6058.0	26.8
70°-80°	3492.2	15.4
80°-90°	523.1	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°	22605.2	100.0
0°-180°	22605.2	100.0

Coefficient of Utilization



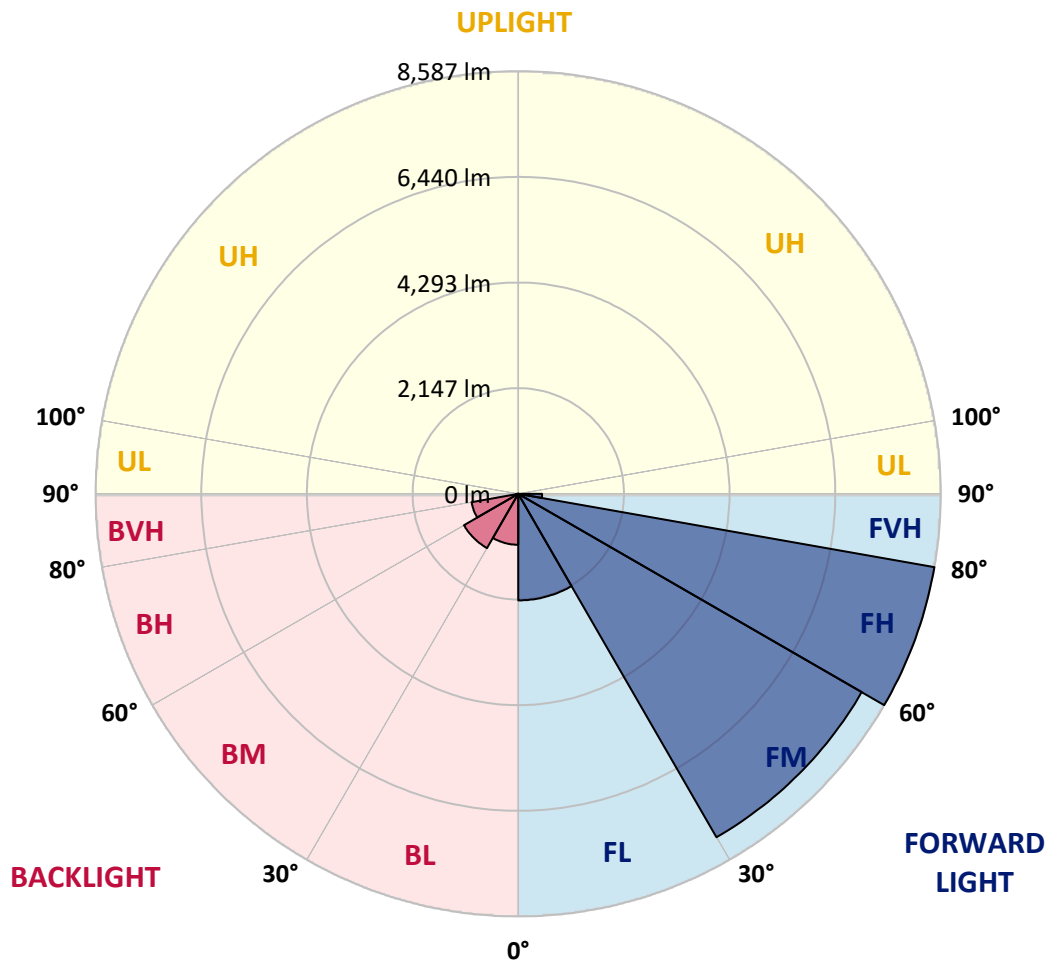
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2165.0	9.6			
FM (30°-60°)	8057.6	35.6			
FH (60°-80°)	8586.9	38.0			G4/12000
FVH (80°-90°)	483.0	2.1			G3/500
BL (0°-30°)	1035.4	4.6	B3/2500		
BM (30°-60°)	1274.0	5.6	B2/2500		
BH (60°-80°)	963.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	40.1	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°	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8
2.5°	6478.7	6496.4	6491.3	6485.0	6474.9	6447.2	6401.9	6394.3	6365.3	6303.5	6226.6
5°	6379.2	6394.3	6395.6	6404.4	6417.0	6412.0	6379.2	6375.4	6332.5	6249.3	6120.7
7.5°	6037.5	6057.6	6101.8	6151.0	6195.1	6236.7	6246.8	6253.1	6226.6	6130.8	5959.3
10°	5652.9	5673.1	5693.3	5766.4	5874.9	5978.2	6063.9	6075.3	6081.6	5993.4	5784.1
12.5°	5226.9	5268.4	5311.3	5419.7	5564.7	5727.4	5878.7	5902.6	5945.4	5878.7	5632.8
15°	4865.0	4907.9	4969.6	5066.8	5242.0	5476.5	5689.5	5728.6	5813.1	5779.0	5491.6
17.5°	4614.1	4629.3	4672.2	4783.1	4972.2	5219.3	5504.2	5582.4	5717.3	5708.5	5370.5
20°	4416.3	4435.2	4461.6	4529.7	4726.3	4987.3	5331.5	5432.4	5615.2	5645.4	5250.8
22.5°	4333.0	4346.9	4343.1	4379.7	4513.3	4775.5	5156.3	5276.0	5524.4	5602.6	5139.9
25°	4338.0	4350.7	4331.7	4322.9	4402.4	4588.9	4973.4	5126.0	5451.3	5573.6	5039.0
27.5°	4422.6	4431.4	4396.1	4360.8	4367.1	4472.9	4822.2	4991.1	5389.5	5586.2	4954.6
30°	4536.0	4552.4	4529.7	4486.8	4440.1	4445.2	4725.1	4891.5	5360.5	5630.2	4914.2
32.5°	4682.3	4697.4	4687.3	4653.3	4592.7	4525.9	4701.1	4854.9	5363.0	5719.8	4905.4
35°	4836.0	4866.3	4882.7	4880.2	4831.0	4715.0	4795.7	4923.0	5423.5	5869.8	4957.1
37.5°	5010.0	5035.2	5105.8	5151.2	5105.8	4970.9	5008.7	5097.0	5557.2	6086.7	5070.6
40°	5179.0	5216.8	5320.2	5461.4	5443.7	5325.2	5334.0	5392.0	5792.9	6409.4	5292.4
42.5°	5355.5	5400.8	5581.1	5790.4	5832.0	5740.0	5763.9	5815.6	6128.3	6856.9	5673.1
45°	5582.4	5636.6	5858.5	6119.5	6283.4	6226.6	6294.6	6319.9	6577.0	7439.4	6174.9
47.5°	5874.9	5937.9	6211.5	6536.8	6768.7	6820.3	6938.9	6923.8	7133.0	8129.0	6825.4
50°	6367.8	6403.1	6661.6	6993.1	7312.1	7545.3	7673.9	7697.8	7822.6	8799.7	7552.9
52.5°	6954.0	6985.5	7172.1	7462.1	7861.8	8355.9	8673.6	8595.4	8625.7	9616.6	8403.9
55°	7613.3	7666.3	7784.8	7977.7	8495.9	9223.2	9861.2	9880.1	9544.8	10398.2	9219.5
57.5°	8124.0	8213.5	8416.4	8691.2	9348.1	10187.7	11045.0	11057.6	10629.0	11232.8	10119.7
60°	7866.8	7972.7	8436.6	9106.0	10466.3	11870.7	12459.5	12387.6	11684.2	12183.4	11217.7
62.5°	6757.4	6776.3	7450.8	8497.1	10810.5	14122.3	14564.9	14261.0	13092.4	13388.6	12333.4
65°	4373.4	4496.9	5031.5	6497.7	9679.7	15371.7	18253.7	17551.4	15066.6	14756.5	13267.6
67.5°	2760.9	2729.4	2951.3	3710.2	6657.8	14271.1	21401.6	21290.7	17648.6	15620.1	13044.4
69°	2289.5	2324.7	2400.4	2844.2	4581.3	12184.7	21773.6	22540.1	18900.4	15552.0	12233.9
70°	2076.3	2092.7	2172.2	2521.4	3535.0	10205.4	21163.3	22506.0	19392.1	15267.1	11646.3
72.5°	1647.8	1646.5	1782.7	2097.8	2642.4	5825.7	17377.5	19539.5	18842.4	13940.8	9622.9
75°	1251.9	1272.0	1422.0	1775.1	2434.4	3183.3	12126.6	15047.7	15048.9	11011.0	6004.7
77.5°	902.6	915.3	1090.5	1490.2	2293.2	2580.7	8077.3	10792.8	10146.1	5045.3	1887.3
80°	591.3	598.8	732.4	1180.0	2067.5	2434.4	4789.4	6606.1	4785.6	1338.9	624.0
82.5°	324.0	361.8	447.6	764.0	1659.0	2249.1	2911.0	3343.4	1795.2	596.3	325.3
85°	162.6	172.7	252.1	446.3	1084.2	1860.8	2027.2	1917.6	926.6	296.3	169.0
87.5°	47.9	60.6	104.6	172.7	440.0	969.5	1128.3	1012.3	356.8	107.1	35.3
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°	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8	6246.8
2.5°	6195.1	6172.4	6071.5	5980.8	5897.5	5809.3	5734.9	5669.3	5675.7	5676.9	5610.1
5°	6053.9	6002.2	5810.6	5631.5	5480.3	5288.6	5124.7	5018.8	4965.9	4895.3	4920.5
7.5°	5862.3	5762.6	5496.6	5199.1	4920.5	4672.2	4402.4	4217.0	4098.5	3983.8	3999.0
10°	5664.3	5504.2	5117.1	4723.8	4363.3	3966.2	3622.0	3327.0	3107.7	3025.7	2971.5
12.5°	5461.4	5250.8	4759.1	4235.9	3738.0	3262.7	2774.8	2458.3	2216.3	2087.7	2104.1
15°	5276.0	5020.1	4386.0	3748.1	3101.4	2535.3	2048.7	1747.3	1578.4	1543.1	1563.3
17.5°	5104.5	4769.2	4036.8	3274.0	2518.9	1901.2	1539.3	1369.1	1301.0	1282.1	1280.8
20°	4928.1	4556.2	3644.6	2767.2	1962.9	1473.8	1263.2	1183.8	1171.2	1178.7	1180.0
22.5°	4749.0	4292.7	3241.3	2264.2	1563.3	1205.2	1104.4	1083.0	1093.0	1110.7	1113.2
25°	4583.9	4060.7	2852.9	1823.0	1248.1	1059.0	1009.8	1009.8	1032.5	1059.0	1060.2
27.5°	4447.7	3836.3	2465.9	1447.3	1045.1	953.1	936.7	945.5	977.1	997.2	998.4
30°	4335.5	3627.1	2100.3	1159.8	919.0	868.6	864.8	879.9	902.6	921.6	922.8
32.5°	4251.1	3443.0	1758.7	974.6	832.1	804.3	803.1	814.4	827.0	832.1	837.1
35°	4218.3	3290.4	1446.0	857.3	774.1	756.4	756.4	755.1	760.2	762.7	765.2
37.5°	4244.8	3173.2	1204.0	781.6	731.2	718.6	711.1	703.5	701.0	701.0	702.2
40°	4357.0	3111.4	1023.7	732.4	701.0	682.1	668.2	659.3	650.5	653.0	655.6
42.5°	4595.2	3122.7	901.4	699.7	674.5	648.0	627.8	617.7	611.4	619.0	617.7
45°	4974.7	3236.3	823.3	677.0	648.0	613.9	595.1	585.0	585.0	596.3	600.1
47.5°	5505.4	3453.1	781.6	659.3	627.8	587.5	568.6	561.0	563.6	582.5	583.7
50°	6153.5	3830.0	774.1	650.5	617.7	568.6	547.2	539.6	545.9	566.1	568.6
52.5°	6868.3	4315.3	810.6	651.8	608.9	557.2	529.5	518.1	524.4	540.8	545.9
55°	7715.5	4923.0	905.2	656.8	596.3	550.9	516.9	491.6	499.2	510.6	511.8
57.5°	8580.3	5689.5	1071.6	658.1	586.3	539.6	495.4	462.7	462.7	470.2	474.0
60°	9636.8	6524.1	1290.9	659.3	587.5	523.2	466.4	429.9	424.9	428.7	429.9
62.5°	10685.7	7222.5	1327.5	655.6	600.1	506.8	435.0	397.1	388.3	387.0	384.5
65°	11148.4	7092.7	1088.0	637.9	613.9	496.7	409.7	365.6	350.4	345.4	345.4
67.5°	10394.4	5999.7	818.2	613.9	605.1	486.6	385.8	339.1	321.5	311.4	311.4
69°	9686.0	5336.6	734.9	597.5	582.5	470.2	370.6	325.3	303.9	292.5	288.7
70°	9138.8	4880.2	699.7	583.7	561.0	451.4	359.3	315.2	291.2	278.6	276.1
72.5°	7293.2	3828.7	612.7	530.8	477.8	379.5	319.0	283.7	261.0	247.1	243.3
75°	4203.1	2075.1	508.0	461.5	384.5	295.0	269.8	247.1	229.4	216.8	213.0
77.5°	1293.5	801.8	368.1	364.3	282.4	228.2	215.5	206.7	194.2	180.3	177.8
80°	544.6	408.5	249.6	245.8	187.9	158.9	155.1	153.8	148.8	137.4	133.6
82.5°	298.8	230.7	174.0	151.3	113.5	92.0	95.8	97.1	93.3	81.9	74.3
85°	146.2	126.1	84.4	68.0	51.7	32.8	31.5	37.8	35.3	25.2	27.8
87.5°	29.0	35.3	22.7	10.1	5.0	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)