

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: P652002

Luminaire Tested: **GALN-SA7A-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26739.6 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

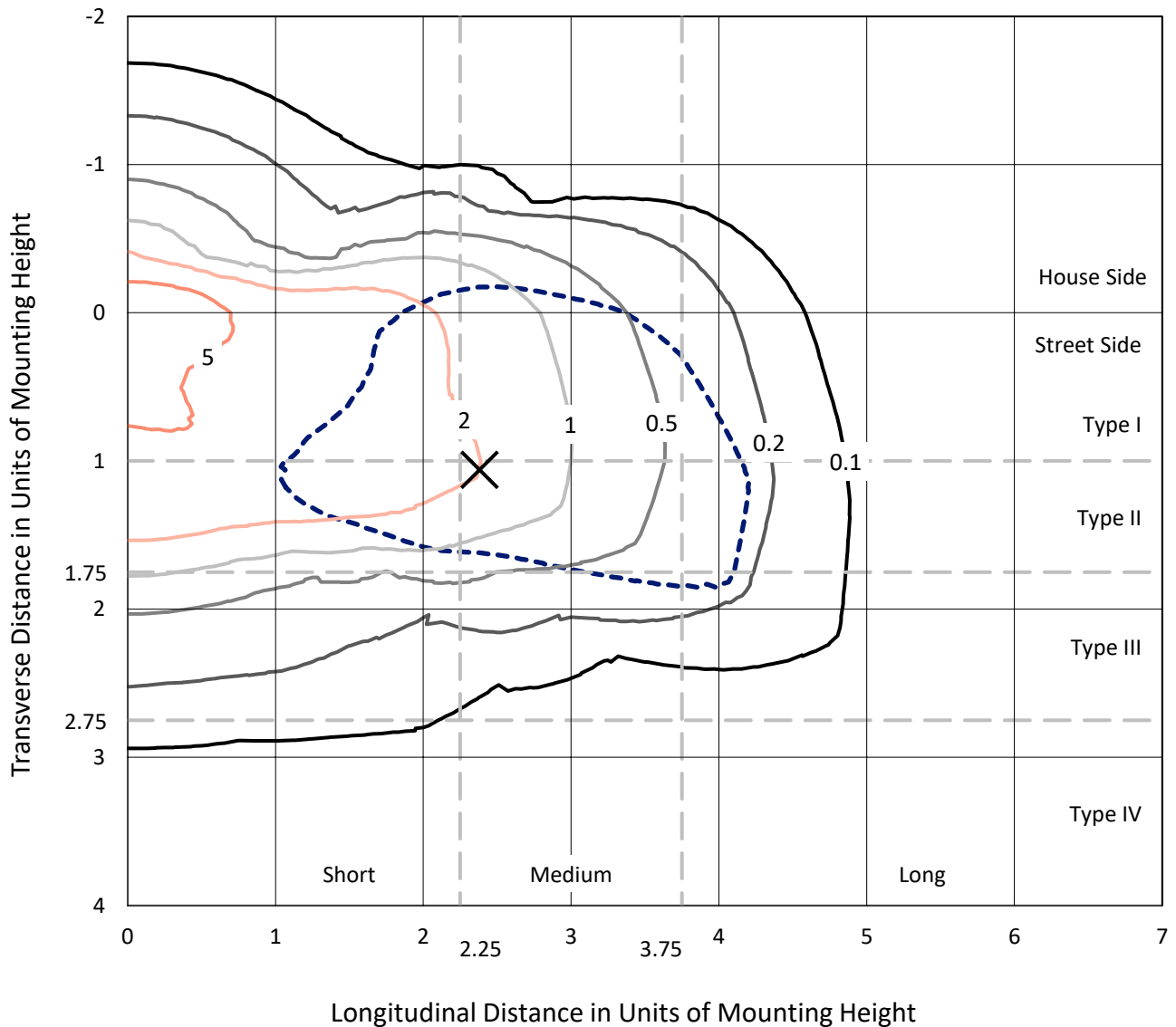
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

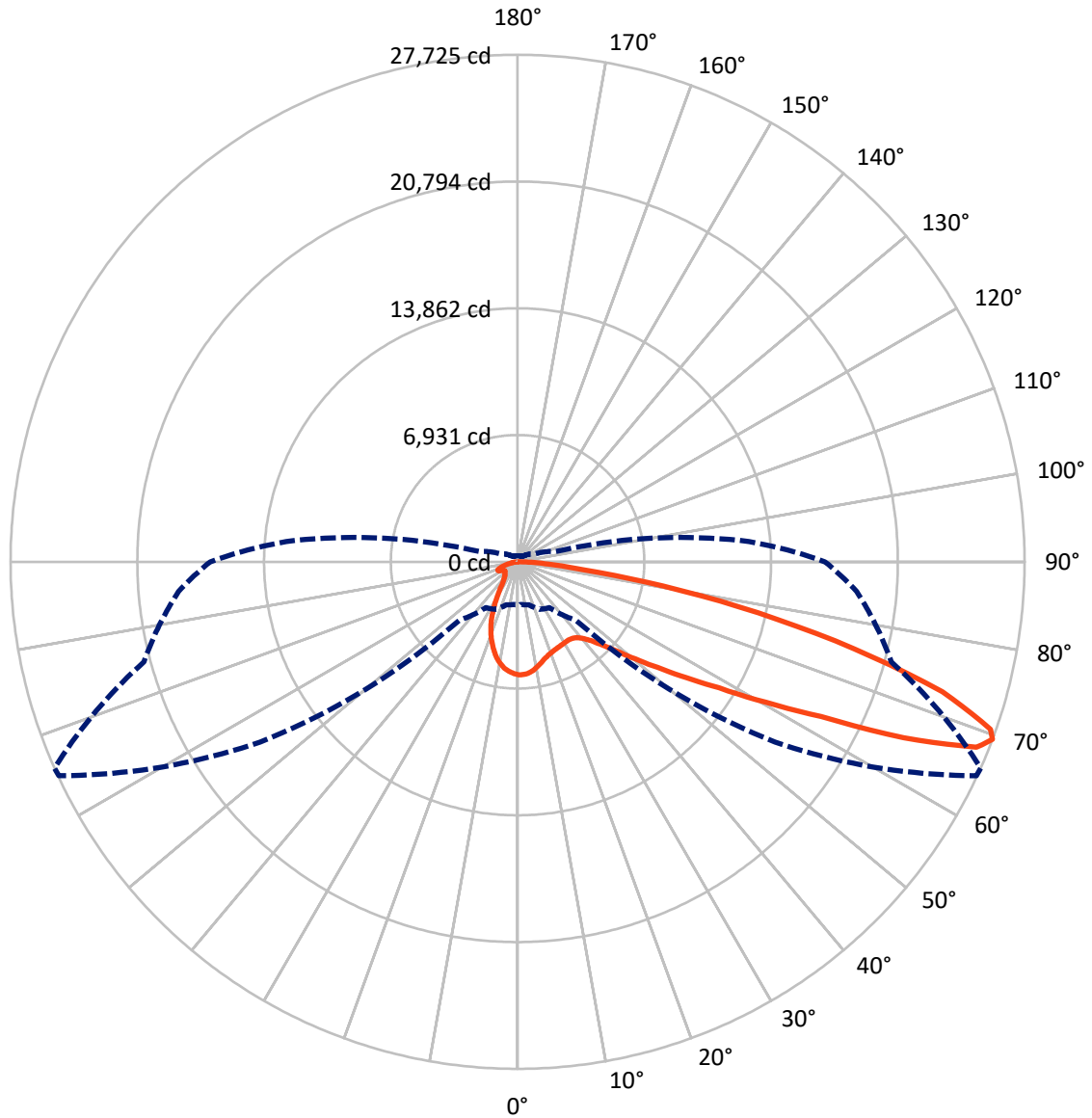
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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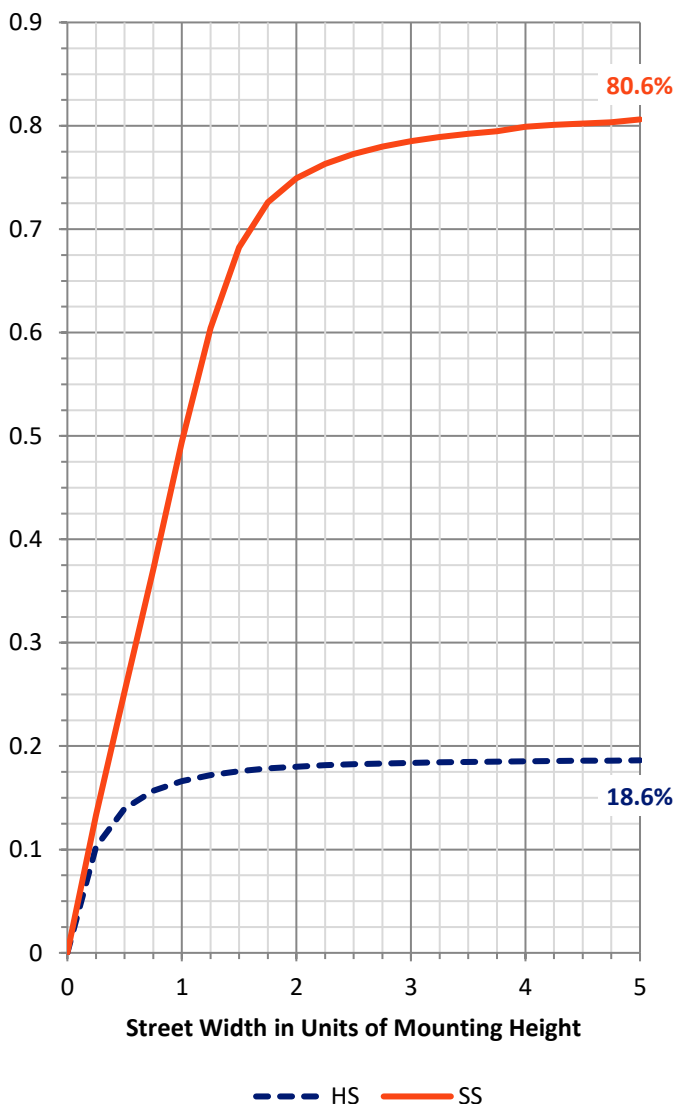
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5028.7	0.0	5028.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21710.9	0.0	21710.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	26739.6	0.0	26739.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.2	2.0
10°-20°	1271.9	4.8
20°-30°	1731.5	6.5
30°-40°	2326.8	8.7
40°-50°	3474.2	13.0
50°-60°	5526.3	20.7
60°-70°	6797.1	25.4
70°-80°	4422.5	16.5
80°-90°	653.1	2.4
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°	26739.6	100.0
0°-180°	26739.6	100.0

Coefficient of Utilization

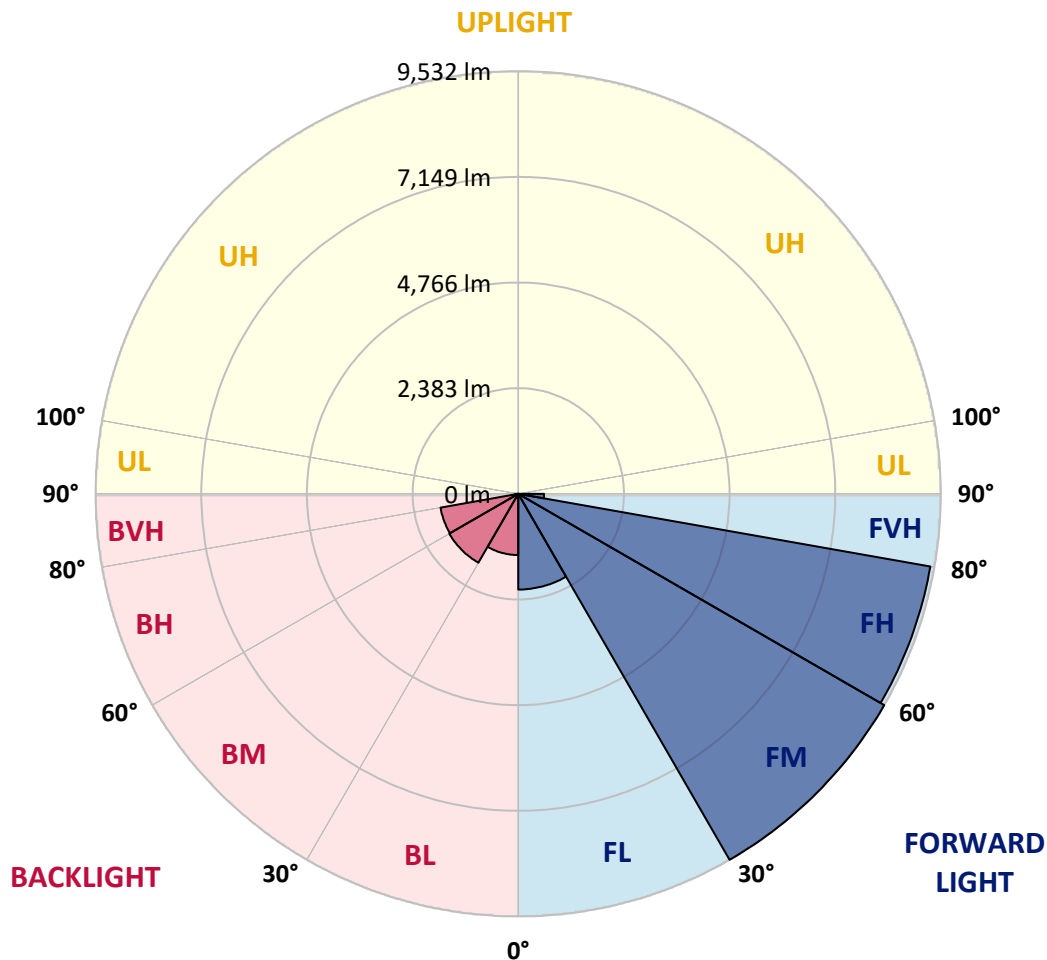


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2159.2	8.1			
FM (30°-60°)	9531.9	35.6			
FH (60°-80°)	9439.2	35.3			G4/12000
FVH (80°-90°)	580.6	2.2			G4/750
BL (0°-30°)	1380.4	5.2	B3/2500		
BM (30°-60°)	1795.5	6.7	B2/2500		
BH (60°-80°)	1780.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	72.5	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9
2.5°	5958.7	5982.5	6009.0	6038.7	6095.0	6126.0	6148.3	6173.4	6176.4	6189.8	6179.3
5°	5518.9	5547.1	5587.0	5643.3	5727.7	5859.5	5995.7	6106.8	6120.1	6182.4	6200.1
7.5°	5151.7	5167.9	5200.6	5290.9	5410.8	5557.4	5755.9	5980.9	6013.5	6161.6	6213.4
10°	4852.6	4868.9	4907.3	5000.7	5119.1	5302.8	5520.4	5816.5	5843.2	6097.9	6216.4
12.5°	4628.9	4643.7	4685.2	4777.0	4913.3	5085.0	5325.0	5638.9	5677.3	6013.5	6188.2
15°	4458.6	4486.8	4520.9	4596.4	4740.0	4905.9	5138.3	5476.0	5507.0	5924.7	6169.0
17.5°	4386.2	4399.4	4423.2	4492.7	4597.8	4760.7	4994.7	5348.6	5385.7	5862.4	6164.5
20°	4389.1	4402.4	4406.8	4445.4	4520.9	4661.6	4892.5	5247.9	5292.3	5807.7	6171.9
22.5°	4489.8	4491.3	4475.0	4461.7	4491.3	4608.3	4820.0	5172.4	5224.2	5784.0	6177.9
25°	4645.3	4671.9	4648.2	4586.1	4531.2	4587.5	4791.8	5130.9	5179.8	5749.9	6170.5
27.5°	4897.0	4901.4	4882.2	4797.7	4655.6	4614.1	4780.0	5099.8	5141.3	5724.8	6133.4
30°	5234.6	5221.3	5203.5	5110.3	4886.6	4716.3	4805.2	5071.7	5114.6	5687.8	6089.0
32.5°	5576.7	5618.1	5601.8	5492.2	5202.0	4914.7	4886.6	5068.8	5104.3	5659.6	6040.1
35°	5939.5	5958.7	6035.7	5979.4	5681.8	5236.1	5039.1	5114.6	5142.8	5661.1	6006.1
37.5°	6223.8	6275.6	6456.3	6505.1	6225.3	5661.1	5286.4	5245.0	5256.8	5733.6	6019.5
40°	6567.3	6656.2	6888.6	7088.5	6904.9	6213.4	5707.0	5486.3	5501.1	5908.4	6106.8
42.5°	7002.7	7064.9	7377.3	7648.3	7618.7	6943.5	6216.4	5881.7	5889.1	6256.4	6351.1
45°	7512.1	7601.0	7951.9	8359.1	8428.7	7769.7	6952.3	6480.0	6475.5	6796.9	6807.2
47.5°	8163.6	8218.4	8566.4	9010.6	9292.0	8807.8	7845.3	7338.8	7291.5	7584.6	7500.2
50°	8763.3	8849.3	9112.8	9598.5	10299.0	10023.5	9019.6	8452.4	8341.3	8615.3	8473.1
52.5°	9015.1	9105.4	9327.5	9930.2	11162.3	11596.1	10510.6	9780.7	9595.6	9805.8	9754.0
55°	8578.3	8695.3	8902.6	9635.5	11541.3	13410.1	12521.6	11316.2	11181.5	11091.2	11106.0
57.5°	7404.0	7515.0	7794.9	8603.4	11088.2	14726.5	15392.8	13290.2	13001.4	12585.3	12656.4
60°	5635.9	5705.5	5850.6	6746.5	9745.1	15068.5	18653.5	15785.2	15601.6	14073.5	14123.8
62.5°	4002.6	4081.0	4181.8	4628.9	7134.5	14104.6	21206.5	19269.6	18613.6	15615.0	15566.2
65°	3250.4	3197.1	3318.5	3527.2	4186.2	10931.2	21781.0	24105.8	23202.6	17645.2	16966.9
67.5°	2672.9	2616.6	2736.5	3108.2	3183.7	6345.2	19710.9	27245.1	27064.5	19853.0	18390.0
69°	2366.3	2336.7	2441.8	2865.4	3056.4	4506.1	17171.3	27682.0	27724.9	21154.6	18609.1
70°	2132.4	2144.2	2246.4	2742.4	2998.6	3715.3	14676.1	27079.3	27443.6	21804.7	18372.2
72.5°	1569.6	1594.8	1737.0	2271.5	2943.8	3152.6	8733.7	23652.7	24296.9	21843.2	16807.0
75°	1097.3	1085.4	1211.3	1710.3	2780.9	3124.5	5129.5	18292.3	19022.3	18880.1	14122.3
77.5°	718.2	737.5	838.1	1208.3	2339.7	3100.8	3343.6	12977.7	13451.5	12626.8	8353.1
80°	506.5	504.9	561.2	824.8	1735.5	2979.3	2738.0	8179.9	8060.0	4962.2	2477.3
82.5°	290.2	311.0	376.1	580.5	1160.9	2622.5	2518.8	3912.2	3571.6	1414.1	836.6
85°	161.4	168.8	223.6	350.9	678.2	1975.3	2199.0	1779.9	1679.2	590.8	359.9
87.5°	51.8	56.3	93.3	177.7	308.0	932.9	1245.4	821.8	758.2	213.2	145.2
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°	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9	6174.9
2.5°	6183.8	6201.5	6154.2	6108.3	6066.8	6009.0	5957.2	5914.3	5884.6	5880.3	5865.5
5°	6204.6	6206.0	6115.7	5994.2	5875.8	5745.5	5610.7	5514.5	5424.1	5373.8	5348.6
7.5°	6219.4	6206.0	6043.1	5846.2	5618.1	5381.2	5144.3	4954.8	4808.2	4750.4	4772.6
10°	6213.4	6171.9	5933.5	5618.1	5286.4	4932.5	4591.9	4325.4	4081.0	3955.2	3958.2
12.5°	6180.8	6112.7	5770.7	5362.0	4874.8	4401.0	3879.7	3519.8	3237.0	3069.6	3017.8
15°	6152.7	6034.3	5579.6	5014.0	4408.4	3731.6	3096.3	2652.1	2415.2	2283.4	2281.9
17.5°	6123.1	5958.7	5370.9	4645.3	3872.3	3001.6	2335.2	1996.1	1885.0	1898.4	1876.2
20°	6092.0	5869.8	5153.1	4235.1	3219.3	2239.0	1748.9	1611.1	1642.2	1702.9	1711.8
22.5°	6056.5	5775.1	4919.2	3783.4	2532.2	1685.1	1418.6	1397.9	1477.8	1572.6	1586.0
25°	6001.6	5656.7	4624.5	3311.0	1953.1	1357.9	1242.4	1257.2	1335.7	1415.7	1424.5
27.5°	5924.7	5510.1	4326.9	2721.7	1467.5	1165.4	1135.8	1155.0	1193.5	1242.4	1254.3
30°	5821.0	5344.2	3984.8	2212.3	1175.7	1069.2	1057.3	1067.6	1089.9	1110.6	1116.5
32.5°	5717.4	5184.3	3639.8	1694.0	1048.4	1005.5	993.6	993.6	993.6	996.6	998.0
35°	5621.1	5033.2	3269.6	1319.4	981.8	955.1	938.8	921.1	918.1	907.7	907.7
37.5°	5567.8	4895.5	2875.7	1104.7	932.9	913.7	891.5	861.9	845.5	847.1	844.0
40°	5578.2	4805.2	2517.4	983.2	892.9	872.2	838.1	804.1	793.7	793.7	790.7
42.5°	5695.2	4775.5	2173.8	919.5	854.5	830.7	787.8	756.6	750.8	749.2	752.3
45°	5964.6	4848.1	1865.8	878.1	821.8	786.3	743.4	715.2	709.3	709.3	707.8
47.5°	6490.3	5083.6	1645.2	851.4	798.1	752.3	707.8	679.7	669.4	666.3	666.3
50°	7307.7	5594.4	1480.8	827.8	768.5	721.2	675.2	642.7	626.4	624.9	623.4
52.5°	8443.5	6391.1	1417.1	810.0	736.0	688.6	638.2	607.1	586.4	582.0	579.0
55°	9771.7	7503.1	1504.5	796.7	701.9	651.5	599.7	567.2	547.9	539.0	537.6
57.5°	11310.3	8838.8	1836.2	778.9	670.8	611.6	561.2	528.7	507.9	497.5	494.6
60°	12691.9	10211.6	2415.2	768.5	644.1	568.6	516.8	487.2	467.9	457.6	456.1
62.5°	14209.7	11520.6	3106.7	796.7	632.3	527.1	475.3	448.7	432.4	422.0	422.0
65°	15831.2	12831.1	3564.2	891.5	650.1	494.6	430.9	408.7	393.9	386.5	385.0
67.5°	16924.0	13284.2	2936.4	989.2	694.5	459.0	388.0	370.2	361.3	353.9	353.9
69°	16805.5	12711.1	2166.4	1014.3	707.8	441.3	364.2	350.9	339.1	336.1	333.2
70°	16430.9	12058.1	1815.5	998.0	697.4	425.0	349.4	333.2	322.8	319.8	318.4
72.5°	14634.7	10457.4	1352.0	867.7	593.8	368.7	309.5	294.7	285.8	281.3	281.3
75°	12158.8	8547.2	1055.8	690.0	465.0	311.0	265.1	253.2	245.8	242.9	241.4
77.5°	6814.6	4772.6	758.2	540.5	352.5	251.7	222.1	211.8	204.4	201.4	201.4
80°	1898.4	1363.8	445.7	356.8	239.9	191.0	176.2	168.8	158.4	151.0	155.5
82.5°	715.2	590.8	254.7	214.7	152.6	127.3	122.9	117.0	112.5	102.2	102.2
85°	348.0	287.3	162.9	114.0	84.4	66.6	63.7	60.7	57.8	50.4	51.8
87.5°	119.9	127.3	71.1	41.5	25.1	16.3	13.3	7.4	7.4	7.4	7.4
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)