

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: P651946

Luminaire Tested: **GALN-SA6A-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18665.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

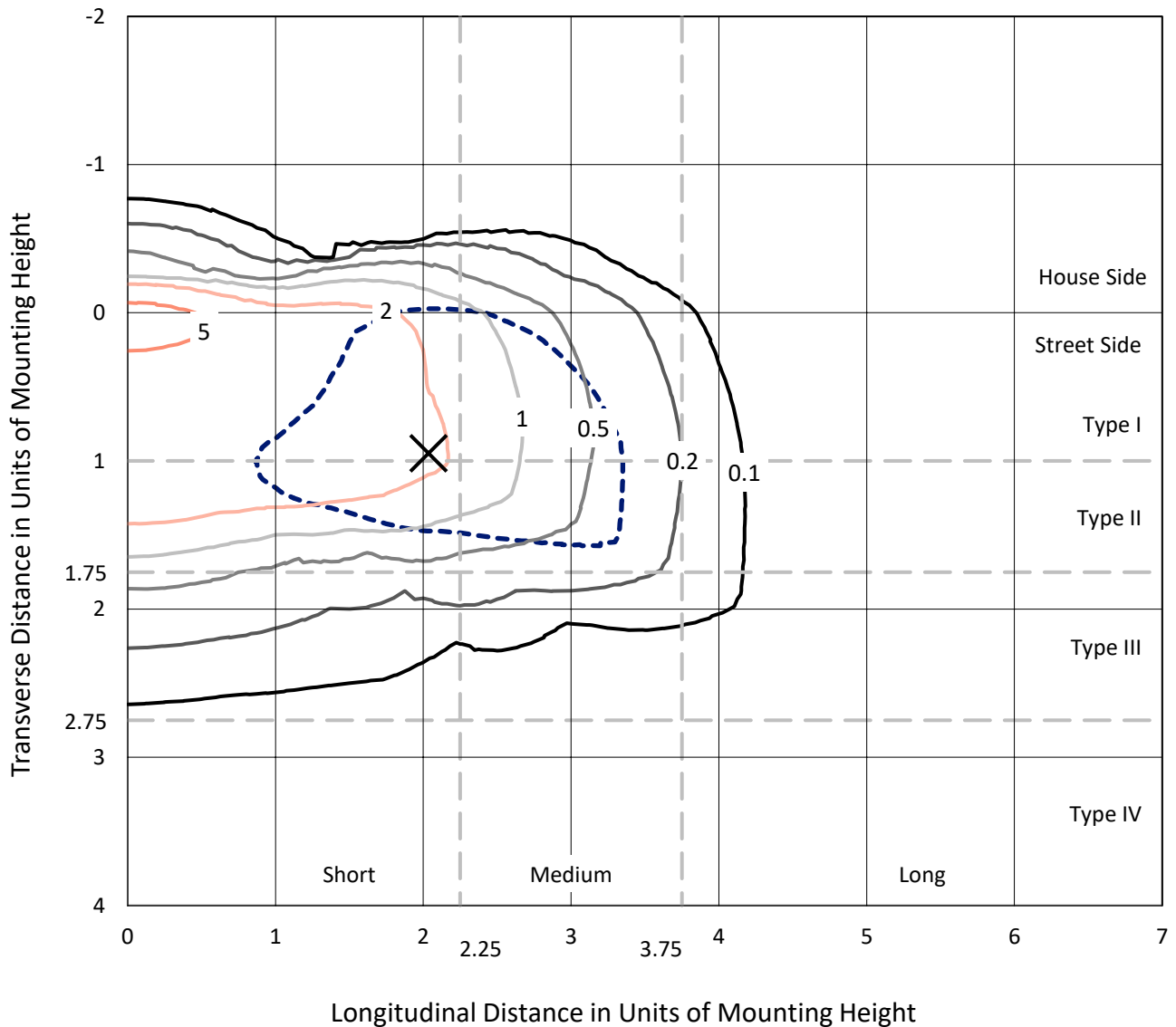
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

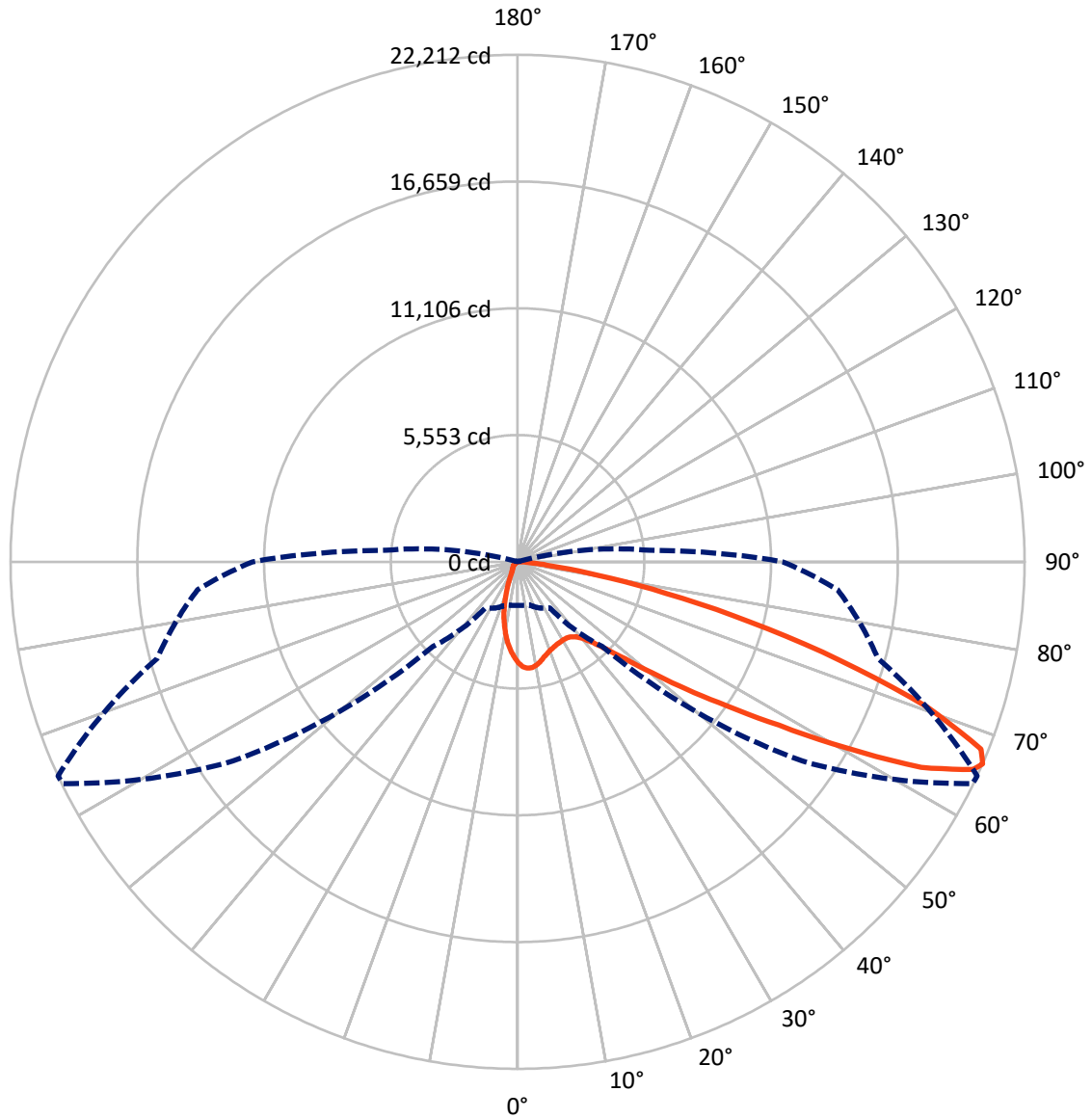
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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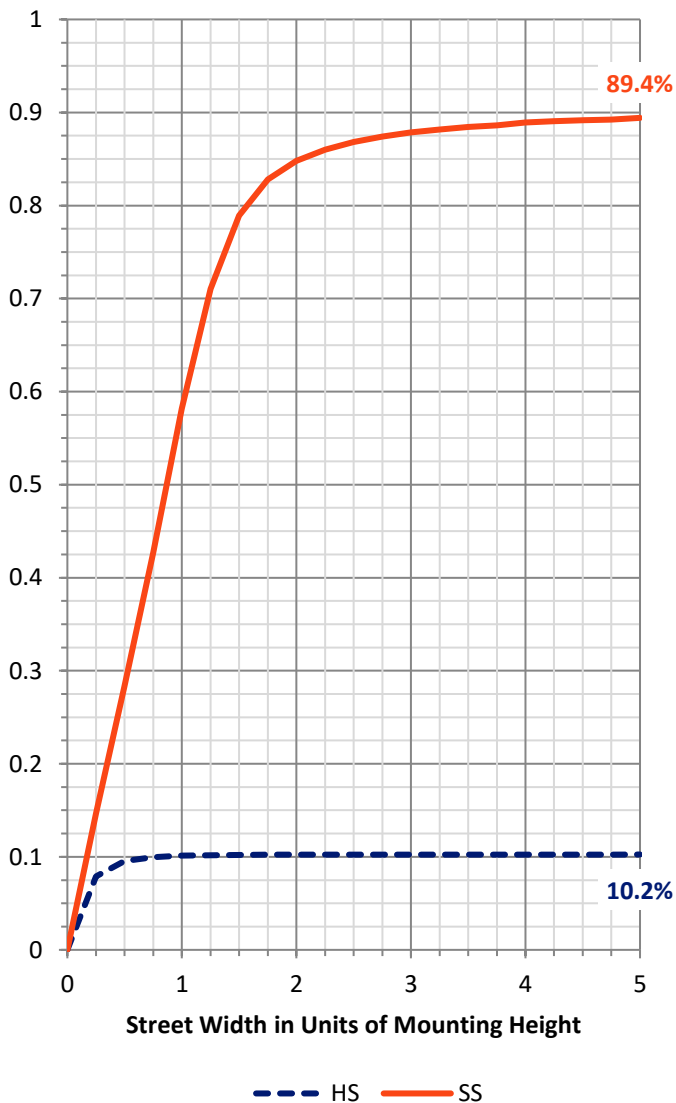
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1930.2	0.0	1930.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16734.9	0.0	16734.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	18665.2	0.0	18665.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.0	1.9
10°-20°	788.7	4.2
20°-30°	1129.9	6.1
30°-40°	1650.3	8.8
40°-50°	2767.2	14.8
50°-60°	4618.0	24.7
60°-70°	4901.9	26.3
70°-80°	2220.0	11.9
80°-90°	227.2	1.2
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°	18665.2	100.0
0°-180°	18665.2	100.0

Coefficient of Utilization

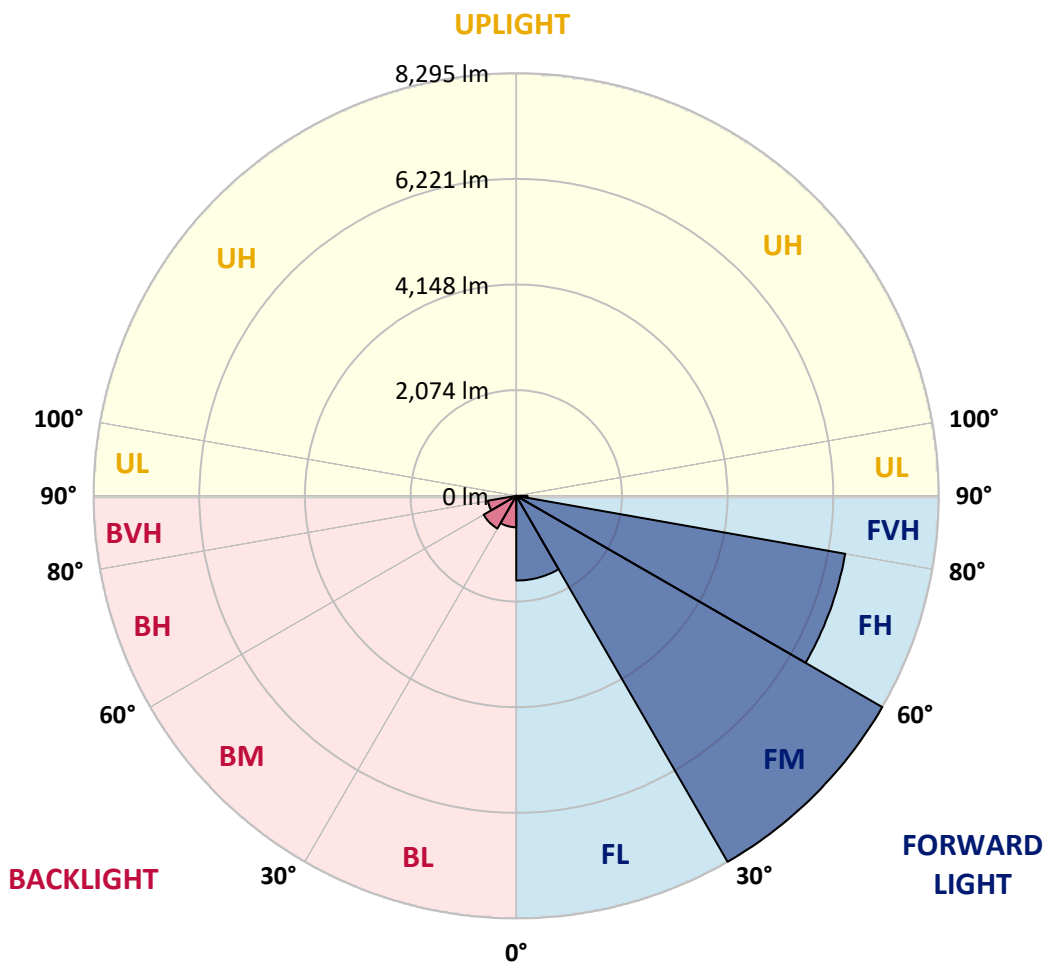


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.1	8.9			
FM (30°-60°)	8295.2	44.4			
FH (60°-80°)	6556.6	35.1			G3/7500
FVH (80°-90°)	219.9	1.2			G2/225
BL (0°-30°)	617.5	3.3	B2/1000		
BM (30°-60°)	740.3	4.0	B1/1000		
BH (60°-80°)	565.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2
2.5°	4664.4	4669.5	4675.8	4684.6	4690.9	4672.0	4645.5	4615.3	4609.0	4544.7	4466.6
5°	4414.8	4422.4	4477.9	4508.2	4576.2	4637.9	4677.1	4682.1	4679.6	4619.1	4494.3
7.5°	4059.3	4080.8	4134.9	4187.9	4315.3	4432.5	4571.2	4668.2	4674.5	4658.1	4503.1
10°	3770.6	3784.5	3812.3	3916.9	4022.8	4201.8	4395.9	4578.7	4593.9	4659.4	4495.6
12.5°	3545.0	3565.2	3599.2	3679.9	3807.2	3976.2	4196.8	4442.6	4474.1	4635.5	4474.1
15°	3387.4	3397.5	3431.5	3510.9	3634.5	3790.8	4013.9	4300.1	4327.9	4604.0	4470.3
17.5°	3313.0	3324.4	3348.4	3411.3	3513.4	3658.4	3876.5	4185.4	4220.7	4583.8	4484.2
20°	3333.2	3343.3	3344.6	3377.3	3446.7	3569.0	3775.7	4078.3	4123.7	4571.2	4506.9
22.5°	3447.9	3449.2	3434.1	3418.9	3442.9	3531.1	3713.9	4010.1	4056.8	4568.6	4533.3
25°	3619.4	3623.1	3598.0	3545.0	3497.0	3542.5	3700.1	3966.1	4007.6	4562.3	4549.7
27.5°	3856.4	3855.1	3847.6	3759.3	3623.1	3592.9	3711.4	3942.1	3977.4	4544.7	4556.0
30°	4187.9	4177.8	4161.4	4061.9	3853.9	3715.2	3759.3	3927.0	3959.8	4519.4	4539.6
32.5°	4514.4	4552.2	4549.7	4455.2	4195.5	3933.3	3858.9	3947.1	3971.1	4503.1	4515.7
35°	4895.1	4893.9	4991.0	4955.7	4651.8	4211.9	4029.1	4013.9	4032.8	4514.4	4504.4
37.5°	5248.2	5280.9	5432.2	5468.8	5191.4	4605.2	4269.8	4157.7	4164.0	4591.4	4532.1
40°	5688.1	5751.2	5976.8	6099.1	5854.5	5188.9	4625.4	4421.1	4422.4	4780.4	4636.8
42.5°	6255.4	6355.0	6565.5	6769.8	6638.7	5879.8	5158.6	4838.4	4835.9	5113.3	4876.3
45°	6945.0	7014.4	7253.9	7577.8	7494.7	6844.1	5935.2	5485.2	5452.4	5659.1	5301.1
47.5°	7540.1	7634.6	7877.9	8247.3	8625.5	8021.6	6863.1	6373.9	6352.5	6527.8	6029.8
50°	7799.8	7882.9	8138.9	8657.0	9573.5	9567.2	8244.7	7671.2	7634.6	7729.1	7156.8
52.5°	7514.8	7593.0	7851.4	8496.9	10019.8	11450.6	10246.7	9298.7	9254.5	9133.5	8503.2
55°	6539.1	6603.4	6985.3	7726.6	9848.3	12706.2	13005.1	11309.4	11138.0	10667.7	10027.3
57.5°	5206.5	5173.7	5410.7	6271.8	8842.3	13127.3	15836.5	13814.4	13508.1	11994.0	11317.0
60°	3608.1	3708.9	3804.7	4372.0	6648.8	12397.3	17597.6	16963.5	16560.1	13298.7	12552.4
62.5°	2652.4	2719.3	2782.3	3044.5	4180.4	9898.7	17909.0	20198.4	19840.4	14684.2	13731.2
65°	2097.7	2102.8	2128.0	2386.4	2754.5	6436.9	16412.6	22022.6	21930.5	16018.0	14208.9
66°	1911.2	1912.4	1951.5	2228.8	2472.2	5241.9	15213.7	22161.3	22211.7	16338.2	14069.0
67.5°	1670.4	1665.3	1722.0	2003.2	2251.5	3779.5	13068.0	21599.0	21897.8	16584.0	13566.0
70°	1294.7	1288.4	1357.7	1680.5	2073.8	2521.3	8686.0	18545.6	19027.2	16081.0	12002.8
72.5°	862.3	867.3	985.8	1326.3	1979.2	2220.1	5225.5	14108.1	14788.9	13279.8	9442.4
75°	503.0	511.8	646.7	985.8	1718.2	2116.6	2957.5	10060.1	10495.0	9170.1	5882.3
77.5°	263.5	267.3	361.8	650.5	1317.4	1965.4	1970.4	6426.8	6631.1	4456.5	2328.5
80°	139.9	136.2	194.1	392.1	906.4	1725.8	1598.5	3402.5	3537.4	1323.7	588.7
82.5°	53.0	58.0	103.4	257.2	535.8	1239.2	1376.6	1504.0	1457.4	291.2	247.1
85°	10.1	12.6	44.2	152.6	269.8	518.1	1014.8	737.5	683.3	109.7	142.5
87.5°	1.3	2.5	12.6	36.6	39.1	175.3	300.1	204.2	176.5	40.4	59.3
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°	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2	4426.2
2.5°	4428.7	4394.6	4281.2	4169.0	4054.3	3950.9	3880.3	3765.6	3736.6	3695.0	3671.0
5°	4419.9	4340.5	4122.4	3884.1	3662.2	3422.7	3239.9	3063.4	2968.9	2921.0	2903.3
7.5°	4394.6	4268.6	3928.2	3555.1	3199.6	2841.6	2530.1	2293.2	2140.6	2036.0	1965.4
10°	4344.3	4170.3	3702.6	3189.5	2652.4	2179.7	1785.1	1485.0	1253.1	1180.0	1182.5
12.5°	4292.5	4060.6	3450.5	2783.5	2117.9	1521.6	1103.1	866.1	755.1	718.6	711.0
15°	4244.7	3956.0	3203.4	2390.2	1577.1	985.8	711.0	627.8	597.5	591.2	590.0
17.5°	4219.5	3858.9	2939.9	1940.2	1100.5	669.4	569.9	547.2	538.3	532.0	529.5
20°	4198.0	3774.4	2687.8	1519.1	752.6	548.4	510.6	489.1	474.0	467.7	463.9
22.5°	4182.9	3687.4	2426.8	1176.2	576.1	486.6	452.5	424.9	403.4	395.9	390.8
25°	4160.2	3591.7	2163.3	859.8	485.3	432.4	393.3	360.5	332.8	318.9	316.5
27.5°	4127.5	3483.3	1874.6	636.6	433.7	384.5	336.6	296.3	268.5	253.4	254.7
30°	4074.5	3369.7	1586.0	505.5	392.1	335.3	283.7	244.6	218.1	206.7	205.5
32.5°	4011.4	3232.4	1321.2	433.7	354.2	291.2	237.0	202.9	182.8	174.0	172.7
35°	3952.2	3093.7	1051.4	389.6	315.2	250.9	199.1	170.2	155.1	147.5	148.8
37.5°	3919.4	2970.2	819.5	354.2	283.7	215.5	171.5	146.2	132.4	126.1	124.8
40°	3940.8	2869.2	651.8	322.7	248.3	185.4	147.5	126.1	112.2	103.4	103.4
42.5°	4041.7	2825.2	525.7	292.5	215.5	160.1	128.6	108.4	93.3	84.4	85.7
45°	4349.3	2871.8	440.0	264.7	185.4	138.7	110.9	89.5	75.6	69.3	68.0
47.5°	4859.9	3047.0	380.7	235.7	158.9	118.5	93.3	74.3	60.6	55.5	54.2
50°	5752.4	3408.8	336.6	206.7	134.9	100.8	76.9	59.3	47.9	42.9	42.9
52.5°	6980.3	4198.0	305.1	174.0	113.5	85.7	63.1	47.9	37.8	34.1	32.8
55°	8263.7	5030.0	288.7	146.2	94.5	70.6	50.5	37.8	29.0	25.2	24.0
57.5°	9497.8	5683.1	269.8	118.5	75.6	54.2	39.1	29.0	20.2	17.7	16.4
60°	10681.6	6211.3	229.4	94.5	59.3	39.1	29.0	20.2	13.9	11.4	11.4
62.5°	11740.6	6518.9	180.3	75.6	45.4	27.8	18.9	15.1	10.1	7.6	7.6
65°	11864.2	6119.3	136.2	58.0	32.8	17.7	11.4	11.4	7.6	5.0	5.0
66°	11615.8	5780.2	119.8	53.0	29.0	15.1	10.1	8.8	6.3	3.8	3.8
67.5°	11061.1	5201.5	103.4	45.4	24.0	11.4	7.6	7.6	5.0	2.5	2.5
70°	9557.1	4248.5	81.9	34.1	17.7	8.8	5.0	5.0	3.8	2.5	2.5
72.5°	7284.2	3171.8	66.8	25.2	12.6	6.3	3.8	3.8	3.8	2.5	2.5
75°	4393.4	1708.2	51.7	18.9	11.4	5.0	2.5	3.8	5.0	3.8	2.5
77.5°	1618.7	581.1	40.4	15.1	8.8	5.0	2.5	2.5	5.0	3.8	3.8
80°	397.1	151.3	29.0	12.6	8.8	5.0	2.5	2.5	5.0	5.0	5.0
82.5°	184.1	64.3	20.2	11.4	8.8	5.0	2.5	2.5	3.8	5.0	5.0
85°	105.9	30.3	16.4	12.6	8.8	5.0	2.5	2.5	3.8	5.0	5.0
87.5°	42.9	15.1	15.1	12.6	10.1	6.3	2.5	2.5	2.5	3.8	3.8
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)