

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: P650846

Luminaire Tested: **GALN-SA4C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650846
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-SA4C-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA 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: 19142.8 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

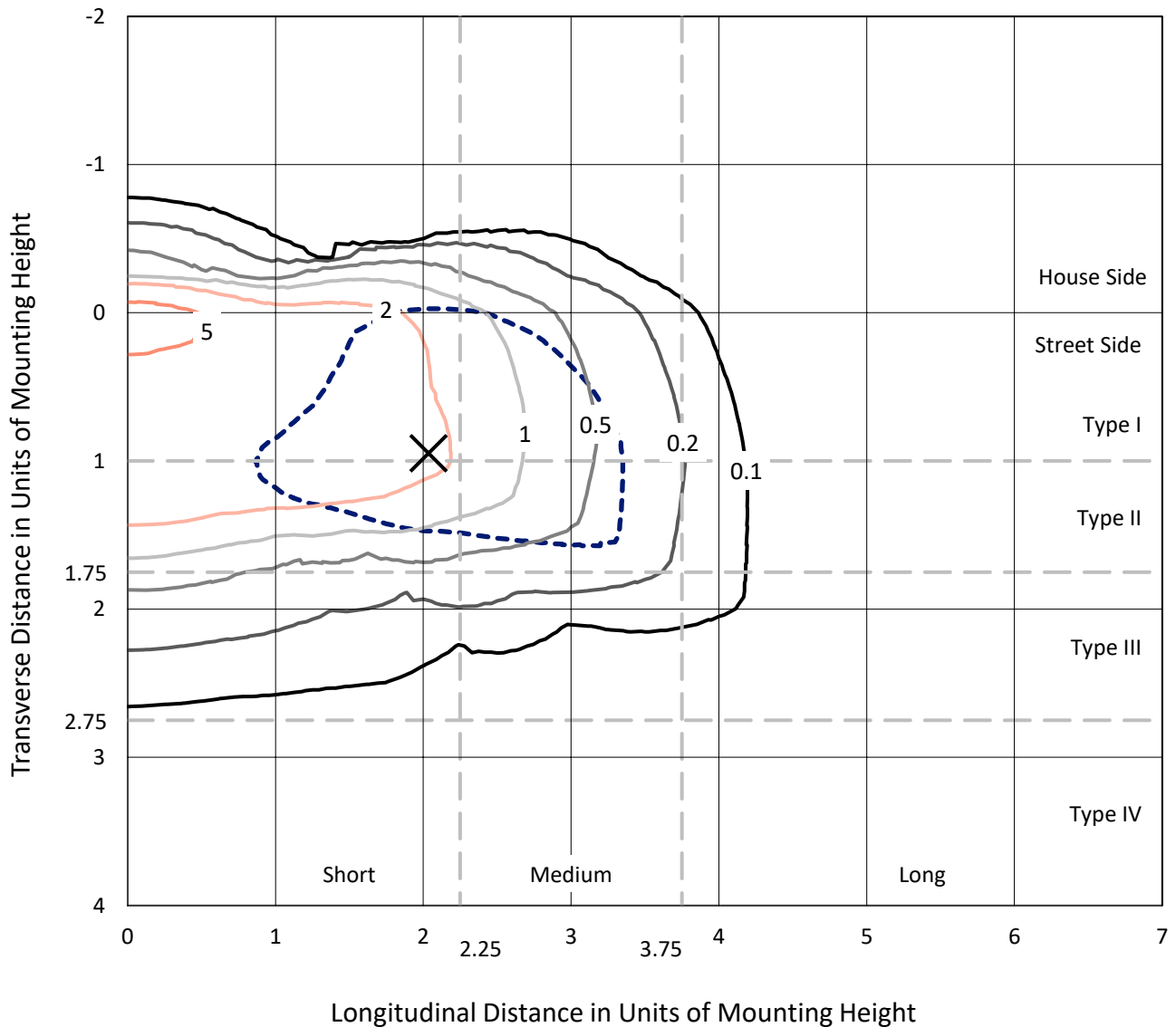
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

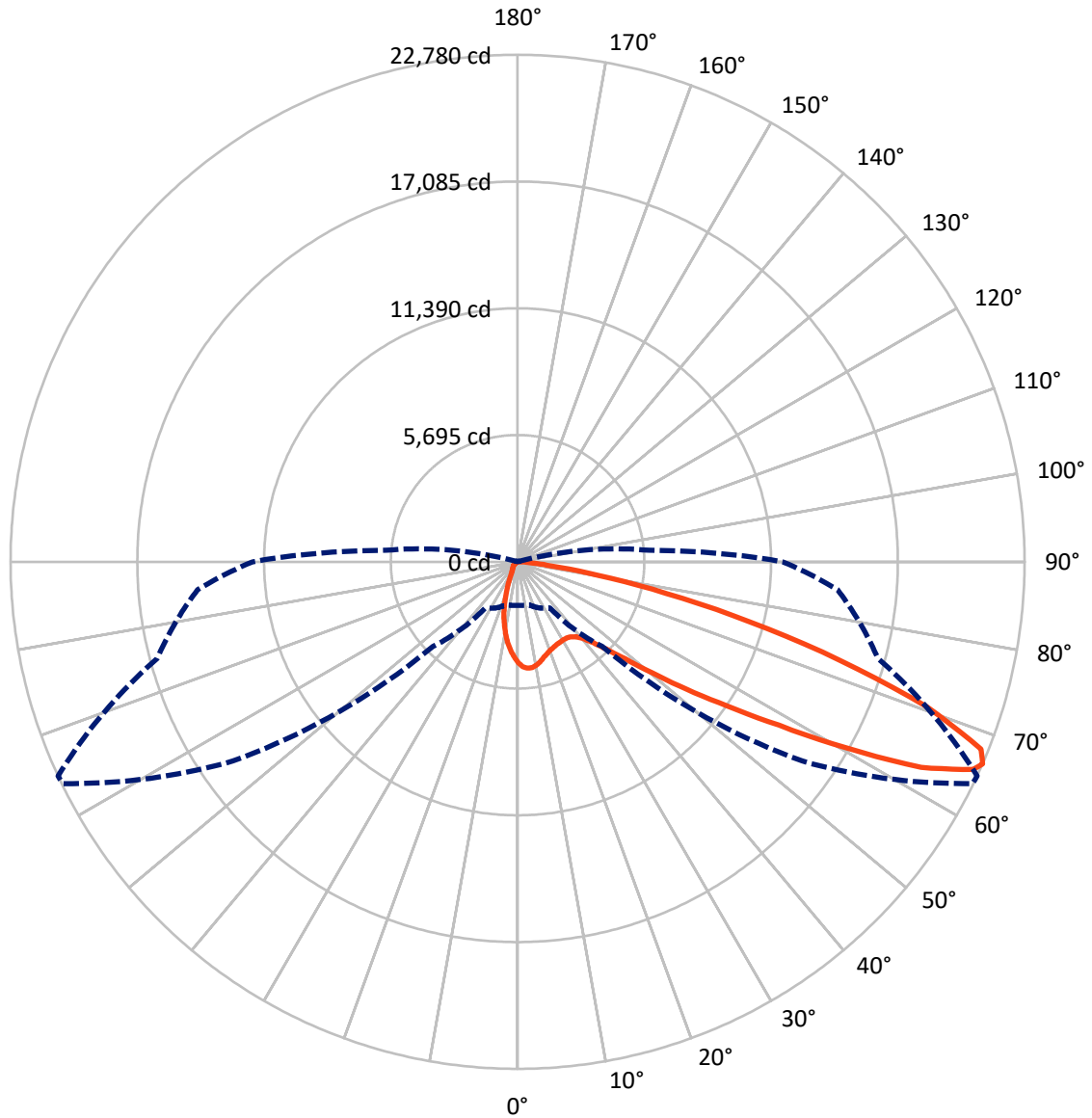
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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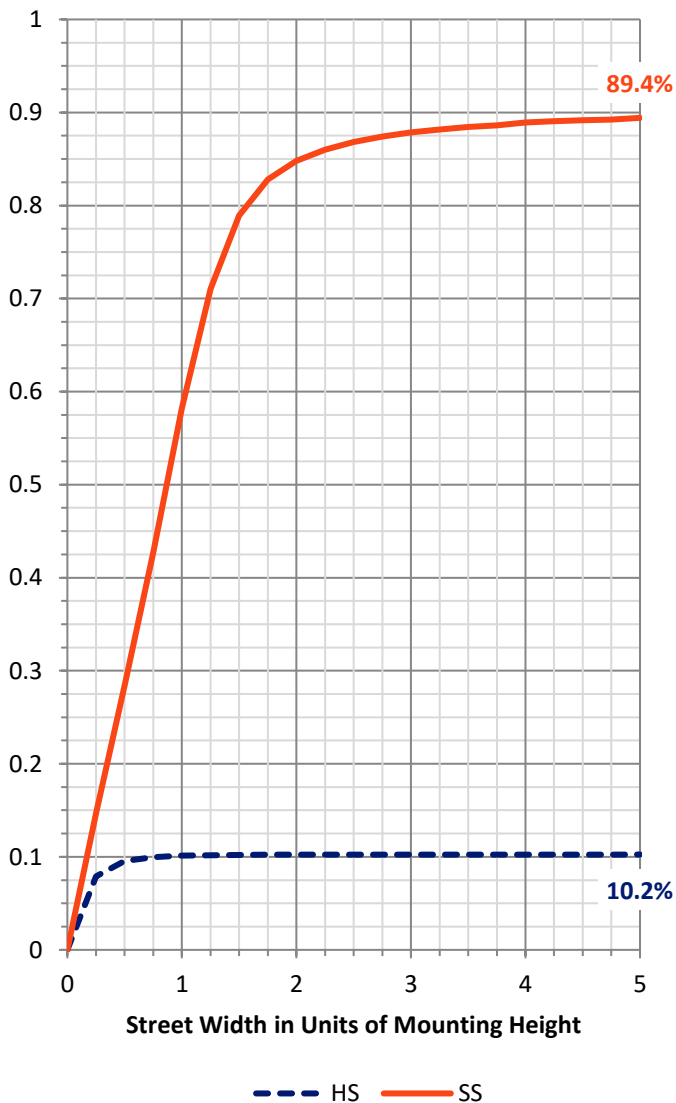
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1979.6	0.0	1979.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17163.2	0.0	17163.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	19142.8	0.0	19142.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	1.9
10°-20°	808.9	4.2
20°-30°	1158.8	6.1
30°-40°	1692.5	8.8
40°-50°	2838.0	14.8
50°-60°	4736.2	24.7
60°-70°	5027.3	26.3
70°-80°	2276.9	11.9
80°-90°	233.0	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°	19142.8	100.0
0°-180°	19142.8	100.0

Coefficient of Utilization



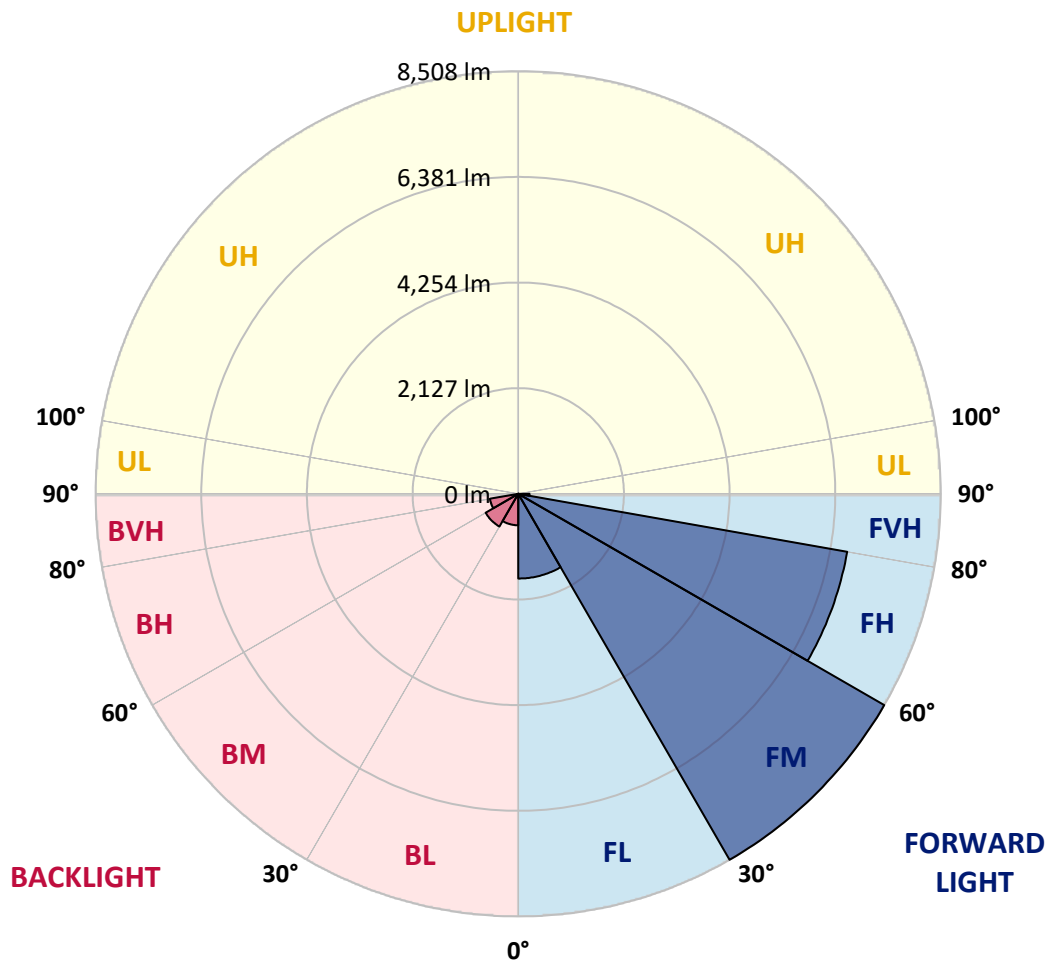
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.7	8.9			
FM (30°-60°)	8507.5	44.4			
FH (60°-80°)	6724.4	35.1			G3/7500
FVH (80°-90°)	225.5	1.2			G3/500
BL (0°-30°)	633.3	3.3	B2/1000		
BM (30°-60°)	759.2	4.0	B1/1000		
BH (60°-80°)	579.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.4	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°	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5
2.5°	4783.9	4789.0	4795.5	4804.5	4811.0	4791.6	4764.4	4733.4	4726.9	4661.0	4580.8
5°	4527.9	4535.6	4592.4	4623.5	4693.4	4756.7	4796.7	4801.9	4799.3	4737.3	4609.3
7.5°	4163.2	4185.2	4240.8	4295.1	4425.7	4545.9	4688.2	4787.7	4794.2	4777.4	4618.4
10°	3867.2	3881.4	3909.8	4017.1	4125.8	4309.4	4508.4	4695.9	4711.5	4778.6	4610.6
12.5°	3635.7	3656.4	3691.3	3774.1	3904.7	4077.9	4304.2	4556.3	4588.6	4754.1	4588.6
15°	3474.1	3484.4	3519.3	3600.8	3727.5	3887.9	4116.7	4410.2	4438.6	4721.8	4584.7
17.5°	3397.8	3409.4	3434.1	3498.6	3603.4	3752.1	3975.7	4292.5	4328.7	4701.1	4598.9
20°	3418.5	3428.8	3430.1	3463.7	3534.9	3660.3	3872.3	4182.6	4229.1	4688.2	4622.2
22.5°	3536.2	3537.4	3521.9	3506.5	3531.0	3621.5	3809.0	4112.8	4160.7	4685.5	4649.4
25°	3712.0	3715.9	3690.1	3635.7	3586.6	3633.1	3794.8	4067.6	4110.2	4679.1	4666.2
27.5°	3955.1	3953.8	3946.1	3855.5	3715.9	3684.8	3806.4	4043.0	4079.2	4661.0	4672.7
30°	4295.1	4284.7	4268.0	4165.8	3952.4	3810.2	3855.5	4027.5	4061.1	4635.2	4655.9
32.5°	4630.0	4668.7	4666.2	4569.2	4302.9	4033.9	3957.7	4048.2	4072.7	4618.4	4631.3
35°	5020.4	5019.2	5118.7	5082.5	4770.9	4319.7	4132.2	4116.7	4136.0	4630.0	4619.6
37.5°	5382.5	5416.0	5571.2	5608.7	5324.3	4723.1	4379.2	4264.0	4270.5	4708.8	4648.0
40°	5833.7	5898.4	6129.8	6255.2	6004.4	5321.7	4743.7	4534.3	4535.6	4902.8	4755.4
42.5°	6415.5	6517.7	6733.6	6943.0	6808.6	6030.2	5290.6	4962.2	4959.7	5244.1	5001.1
45°	7122.8	7193.8	7439.5	7771.8	7686.5	7019.3	6087.1	5625.5	5591.9	5804.0	5436.7
47.5°	7733.0	7830.0	8079.5	8458.4	8846.2	8226.9	7038.7	6537.0	6515.1	6694.8	6184.0
50°	7999.3	8084.7	8347.2	8878.5	9818.5	9812.0	8455.8	7867.5	7830.0	7926.9	7340.0
52.5°	7707.2	7787.3	8052.3	8714.4	10276.2	11743.6	10509.0	9536.6	9491.4	9367.3	8720.8
55°	6706.4	6772.3	7164.1	7924.3	10100.3	13031.5	13337.8	11598.9	11423.1	10940.7	10283.9
57.5°	5339.8	5306.2	5549.3	6432.3	9068.6	13463.2	16241.8	14167.9	13853.7	12300.9	11606.6
60°	3700.4	3803.8	3902.1	4483.9	6818.9	12714.7	18048.0	17397.7	16983.9	13639.1	12873.7
62.5°	2720.3	2788.8	2853.5	3122.5	4287.3	10152.0	18367.4	20715.3	20348.1	15060.0	14082.5
65°	2151.4	2156.6	2182.5	2447.5	2825.1	6601.7	16832.6	22586.1	22491.8	16427.9	14572.6
66°	1960.1	1961.4	2001.5	2285.9	2535.4	5376.0	15603.1	22728.4	22780.1	16756.3	14429.1
67.5°	1713.1	1708.0	1766.1	2054.5	2309.1	3876.2	13402.5	22151.8	22458.1	17008.5	13913.2
70°	1327.9	1321.4	1392.4	1723.5	2126.9	2585.8	8908.3	19020.3	19514.1	16492.6	12310.0
72.5°	884.4	889.5	1011.1	1360.1	2029.9	2276.8	5359.2	14469.2	15167.4	13619.7	9684.0
75°	515.9	525.0	663.3	1011.1	1762.2	2170.8	3033.2	10317.6	10763.6	9404.7	6032.8
77.5°	270.2	274.1	371.0	667.2	1351.2	2015.7	2020.8	6591.3	6800.8	4570.5	2388.0
80°	143.5	139.6	199.1	402.1	929.6	1770.1	1639.4	3489.6	3628.0	1357.5	603.8
82.5°	54.3	59.5	106.1	263.7	549.5	1270.9	1411.9	1542.5	1494.6	298.6	253.4
85°	10.3	13.0	45.2	156.4	276.7	531.4	1040.8	756.4	700.8	112.5	146.1
87.5°	1.3	2.6	13.0	37.5	40.1	179.7	307.7	209.5	181.0	41.4	60.8
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°	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5	4539.5
2.5°	4542.1	4507.2	4390.8	4275.7	4158.1	4052.0	3979.6	3862.0	3832.3	3789.5	3765.0
5°	4533.0	4451.6	4227.9	3983.5	3756.0	3510.3	3322.8	3141.8	3044.8	2995.7	2977.6
7.5°	4507.2	4377.8	4028.7	3646.1	3281.4	2914.2	2594.9	2351.9	2195.4	2088.1	2015.7
10°	4455.4	4277.0	3797.4	3271.1	2720.3	2235.5	1830.8	1523.1	1285.1	1210.2	1212.8
12.5°	4402.4	4164.5	3538.8	2854.8	2172.1	1560.6	1131.3	888.3	774.5	737.0	729.2
15°	4353.3	4057.2	3285.4	2451.4	1617.5	1011.1	729.2	643.9	612.8	606.4	605.1
17.5°	4327.4	3957.7	3015.1	1989.8	1128.7	686.5	584.4	561.1	552.1	545.6	543.0
20°	4305.4	3871.0	2756.5	1558.0	771.9	562.5	523.6	501.7	486.2	479.7	475.8
22.5°	4289.9	3781.8	2488.9	1206.3	590.9	499.0	464.1	435.7	413.8	406.0	400.8
25°	4266.6	3683.6	2218.6	881.8	497.8	443.5	403.4	369.8	341.4	327.1	324.5
27.5°	4233.1	3572.4	1922.6	653.0	444.8	394.3	345.2	303.9	275.4	259.9	261.1
30°	4178.8	3456.0	1626.5	518.5	402.1	343.9	290.9	250.8	223.7	212.0	210.8
32.5°	4114.1	3315.1	1355.0	444.8	363.3	298.6	243.0	208.1	187.5	178.5	177.1
35°	4053.4	3172.8	1078.3	399.5	323.2	257.3	204.3	174.5	159.0	151.3	152.6
37.5°	4019.7	3046.1	840.4	363.3	290.9	221.1	175.9	150.0	135.7	129.3	128.0
40°	4041.7	2942.7	668.4	331.0	254.7	190.1	151.3	129.3	115.0	106.1	106.1
42.5°	4145.1	2897.4	539.2	300.0	221.1	164.2	131.9	111.2	95.7	86.6	87.9
45°	4460.6	2945.3	451.2	271.5	190.1	142.2	113.8	91.8	77.5	71.1	69.8
47.5°	4984.3	3125.0	390.5	241.8	162.9	121.5	95.7	76.3	62.1	56.9	55.6
50°	5899.6	3496.1	345.2	212.0	138.3	103.4	78.9	60.8	49.1	44.0	44.0
52.5°	7158.9	4305.4	312.9	178.5	116.4	87.9	64.7	49.1	38.8	34.9	33.6
55°	8475.2	5158.8	296.1	150.0	97.0	72.4	51.7	38.8	29.8	25.8	24.6
57.5°	9741.0	5828.6	276.7	121.5	77.5	55.6	40.1	29.8	20.7	18.1	16.8
60°	10955.0	6370.2	235.3	97.0	60.8	40.1	29.8	20.7	14.2	11.6	11.6
62.5°	12041.0	6685.7	184.9	77.5	46.5	28.4	19.4	15.5	10.3	7.7	7.7
65°	12167.8	6275.9	139.6	59.5	33.6	18.1	11.6	11.6	7.7	5.1	5.1
66°	11913.0	5928.0	122.9	54.3	29.8	15.5	10.3	9.1	6.5	3.9	3.9
67.5°	11344.2	5334.6	106.1	46.5	24.6	11.6	7.7	7.7	5.1	2.6	2.6
70°	9801.7	4357.1	84.0	34.9	18.1	9.1	5.1	5.1	3.9	2.6	2.6
72.5°	7470.5	3253.0	68.5	25.8	13.0	6.5	3.9	3.9	3.9	2.6	2.6
75°	4505.8	1751.9	53.0	19.4	11.6	5.1	2.6	3.9	5.1	3.9	2.6
77.5°	1660.1	596.0	41.4	15.5	9.1	5.1	2.6	2.6	5.1	3.9	3.9
80°	407.3	155.2	29.8	13.0	9.1	5.1	2.6	2.6	5.1	5.1	5.1
82.5°	188.8	65.9	20.7	11.6	9.1	5.1	2.6	2.6	3.9	5.1	5.1
85°	108.6	31.0	16.8	13.0	9.1	5.1	2.6	2.6	3.9	5.1	5.1
87.5°	44.0	15.5	15.5	13.0	10.3	6.5	2.6	2.6	2.6	3.9	3.9
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)