

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: P647987

Luminaire Tested: **GALN-SA6A-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647987  
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-SA6A-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 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: 21195 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

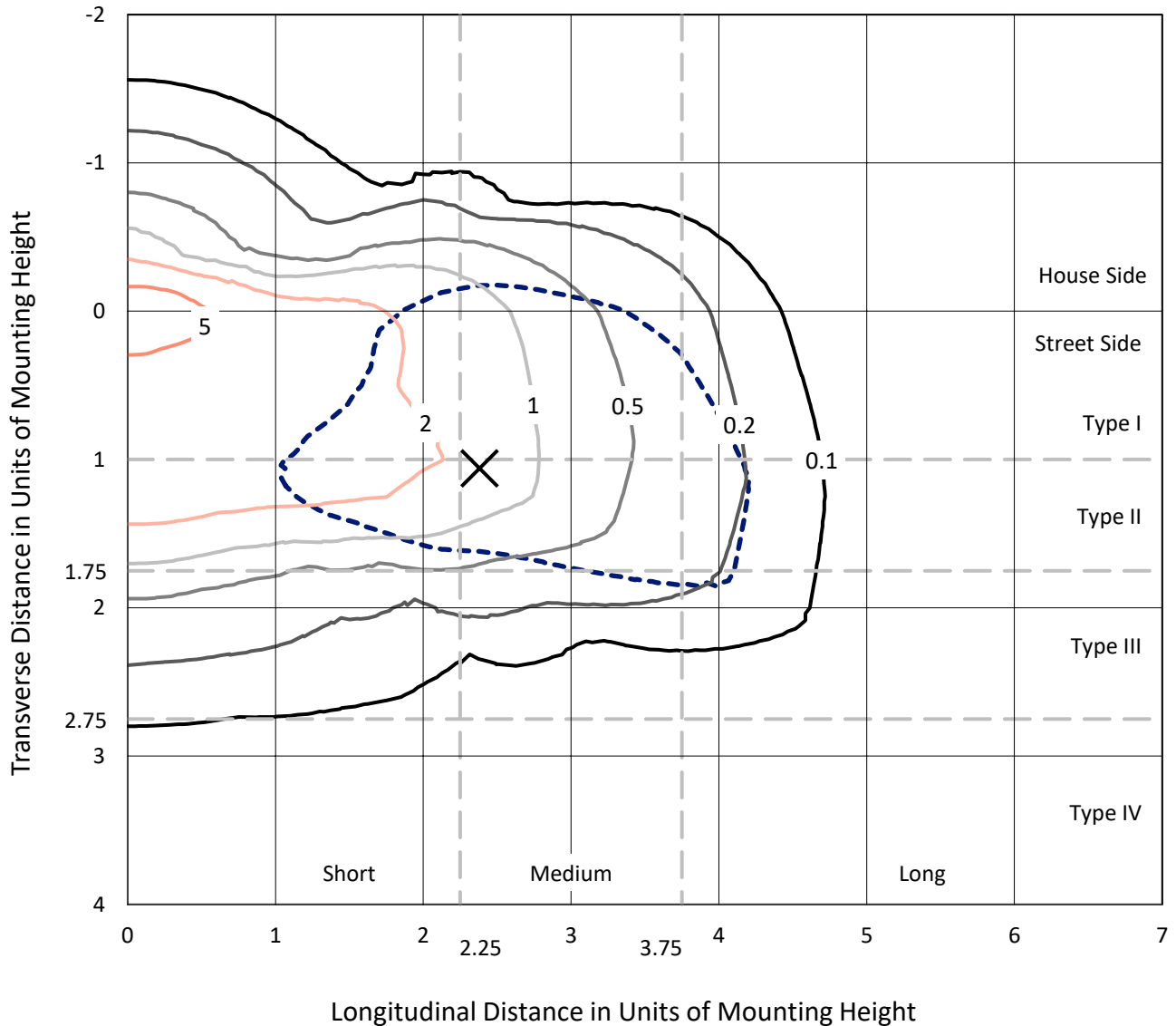
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

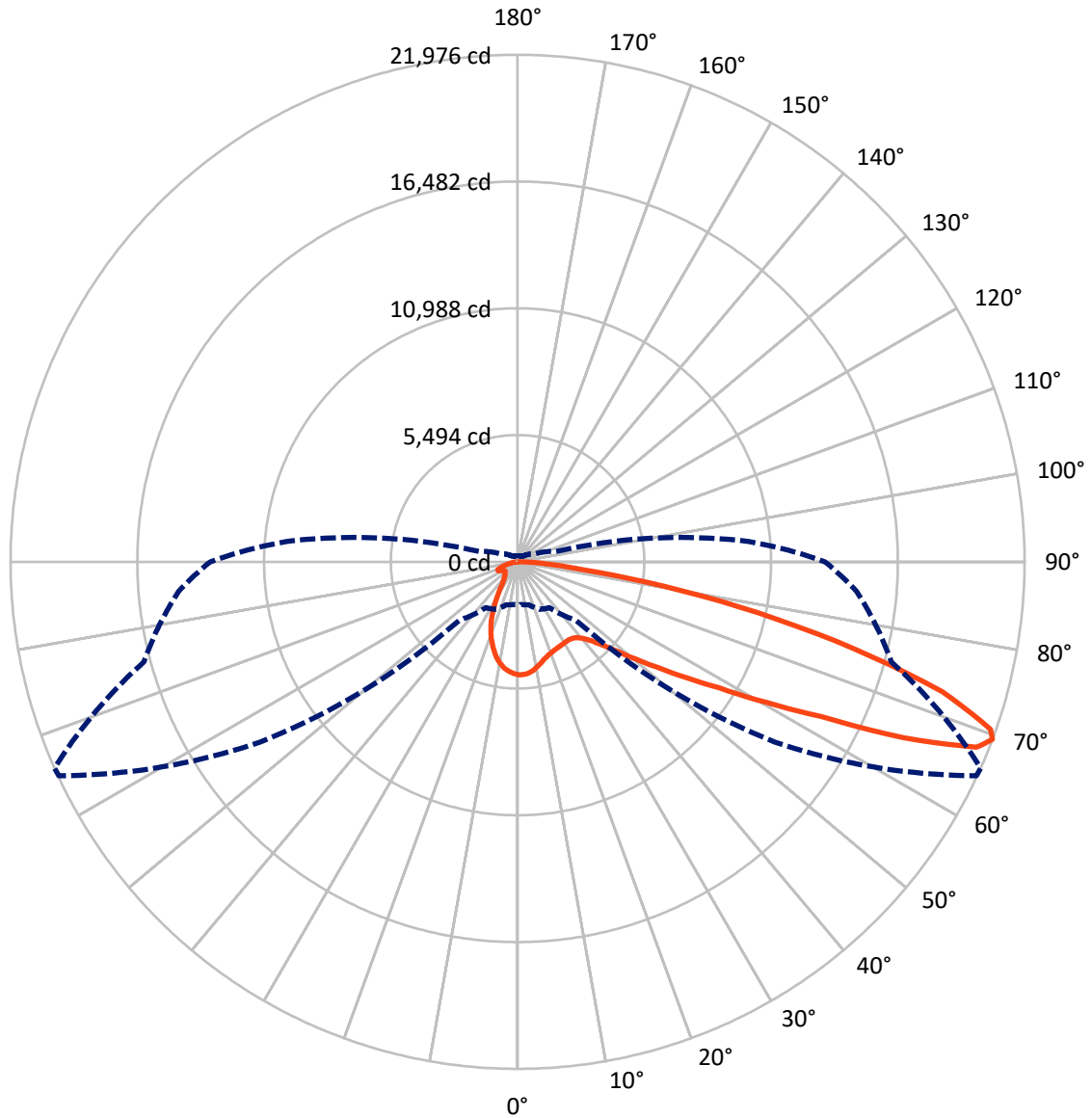
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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
<b>House Side</b>	Lumens	3986.0	0.0	3986.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	17209.0	0.0	17209.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	21195.0	0.0	21195.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.0	2.0
10°-20°	1008.1	4.8
20°-30°	1372.5	6.5
30°-40°	1844.3	8.7
40°-50°	2753.8	13.0
50°-60°	4380.4	20.7
60°-70°	5387.7	25.4
70°-80°	3505.5	16.5
80°-90°	517.7	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°	21195.0	100.0
0°-180°	21195.0	100.0

**Coefficient of Utilization**

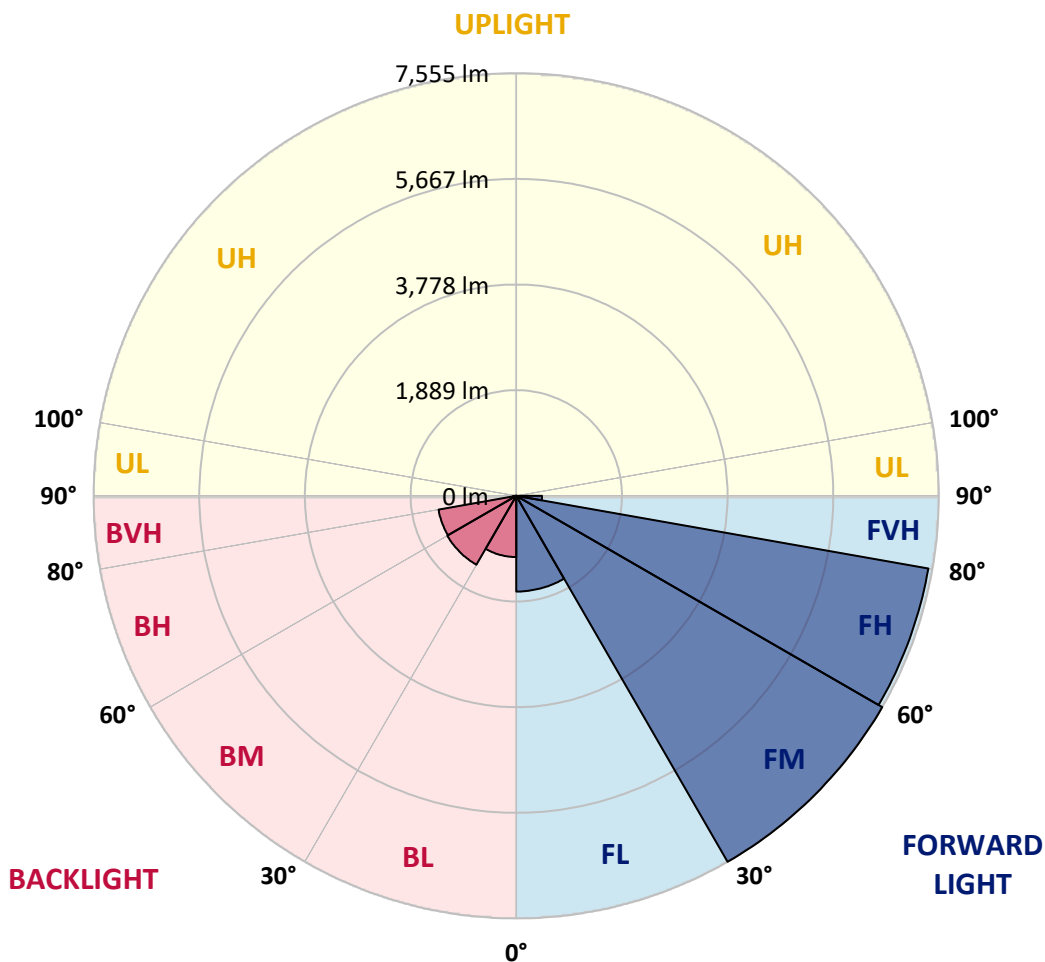


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.5	8.1			
FM (30°-60°)	7555.4	35.6			
FH (60°-80°)	7481.9	35.3			G3/7500
FVH (80°-90°)	460.2	2.2			G3/500
BL (0°-30°)	1094.2	5.2	B3/2500		
BM (30°-60°)	1423.2	6.7	B2/2500		
BH (60°-80°)	1411.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	57.4	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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5
2.5°	4723.1	4741.9	4763.1	4786.6	4831.1	4855.8	4873.4	4893.4	4895.7	4906.3	4898.1
5°	4374.5	4396.9	4428.6	4473.1	4540.1	4644.5	4752.5	4840.5	4851.1	4900.4	4914.5
7.5°	4083.4	4096.3	4122.2	4193.8	4288.9	4405.1	4562.4	4740.8	4766.6	4884.0	4925.1
10°	3846.3	3859.3	3889.8	3963.7	4057.7	4203.2	4375.7	4610.5	4631.6	4833.5	4927.4
12.5°	3669.1	3680.9	3713.8	3786.5	3894.5	4030.6	4220.8	4469.6	4500.1	4766.6	4905.1
15°	3534.1	3556.5	3583.5	3643.3	3757.1	3888.6	4072.9	4340.5	4365.1	4696.1	4889.8
17.5°	3476.6	3487.2	3506.0	3561.2	3644.5	3773.6	3959.1	4239.6	4268.9	4646.9	4886.3
20°	3478.9	3489.5	3493.0	3523.6	3583.5	3695.0	3878.0	4159.8	4195.0	4603.4	4892.2
22.5°	3558.8	3560.0	3547.1	3536.5	3560.0	3652.7	3820.6	4099.9	4141.0	4584.6	4896.9
25°	3682.1	3703.2	3684.4	3635.1	3591.7	3636.3	3798.3	4067.1	4105.7	4557.7	4891.0
27.5°	3881.6	3885.1	3869.8	3803.0	3690.3	3657.4	3788.9	4042.4	4075.3	4537.7	4861.6
30°	4149.2	4138.6	4124.5	4050.6	3873.3	3738.4	3808.8	4020.1	4054.1	4508.4	4826.4
32.5°	4420.3	4453.2	4440.3	4353.4	4123.4	3895.7	3873.3	4017.7	4045.9	4486.0	4787.7
35°	4707.9	4723.1	4784.2	4739.6	4503.7	4150.4	3994.2	4054.1	4076.5	4487.2	4760.7
37.5°	4933.3	4974.3	5117.5	5156.3	4934.5	4487.2	4190.3	4157.4	4166.8	4544.8	4771.3
40°	5205.5	5276.0	5460.3	5618.7	5473.2	4925.1	4523.6	4348.7	4360.4	4683.3	4840.5
42.5°	5550.6	5599.9	5847.6	6062.4	6038.9	5503.7	4927.4	4662.1	4668.0	4959.1	5034.2
45°	5954.4	6024.9	6303.0	6625.8	6680.9	6158.6	5510.8	5136.3	5132.8	5387.5	5395.7
47.5°	6470.9	6514.3	6790.1	7142.2	7365.3	6981.5	6218.5	5817.1	5779.6	6012.0	5945.0
50°	6946.2	7014.3	7223.3	7608.3	8163.4	7945.1	7149.3	6699.7	6611.7	6828.9	6716.2
52.5°	7145.7	7217.4	7393.4	7871.1	8847.7	9191.6	8331.3	7752.6	7605.9	7772.5	7731.5
55°	6799.5	6892.2	7056.6	7637.5	9148.2	10629.5	9925.2	8969.7	8862.9	8791.4	8803.1
57.5°	5868.7	5956.8	6178.6	6819.5	8789.0	11672.9	12201.1	10534.4	10305.5	9975.7	10032.0
60°	4467.2	4522.5	4637.5	5347.6	7724.5	11944.0	14785.7	12512.1	12366.6	11155.2	11195.2
62.5°	3172.6	3234.8	3314.7	3669.1	5655.1	11179.9	16809.2	15274.0	14754.0	12377.1	12338.4
65°	2576.4	2534.1	2630.3	2795.9	3318.2	8664.6	17264.6	19107.4	18391.4	13986.3	13448.8
67.5°	2118.6	2074.0	2169.1	2463.7	2523.5	5029.5	15623.7	21595.8	21452.6	15736.4	14576.7
69°	1875.7	1852.2	1935.5	2271.2	2422.6	3571.7	13610.7	21942.0	21976.1	16768.1	14750.5
70°	1690.2	1699.6	1780.5	2173.8	2376.8	2944.9	11633.0	21464.3	21753.1	17283.4	14562.7
72.5°	1244.2	1264.2	1376.8	1800.5	2333.4	2498.9	6922.7	18748.2	19258.8	17313.9	13322.0
75°	869.8	860.4	960.1	1355.7	2204.3	2476.6	4065.9	14499.3	15077.9	14965.2	11194.0
77.5°	569.2	584.5	664.4	957.8	1854.5	2457.8	2650.3	10286.7	10662.3	10008.5	6621.1
80°	401.4	400.3	444.8	653.8	1375.7	2361.6	2170.2	6483.8	6388.7	3933.2	1963.7
82.5°	230.0	246.5	298.2	460.1	920.2	2078.7	1996.6	3101.1	2831.1	1120.9	663.2
85°	127.9	133.8	177.3	278.2	537.6	1565.8	1743.0	1410.8	1331.0	468.3	285.2
87.5°	41.1	44.6	73.9	140.9	244.1	739.5	987.1	651.5	601.0	169.0	115.0
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°	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5	4894.5
2.5°	4901.6	4915.7	4878.1	4841.7	4808.9	4763.1	4722.0	4688.0	4664.5	4661.0	4649.2
5°	4918.0	4919.2	4847.6	4751.3	4657.4	4554.2	4447.4	4371.0	4299.5	4259.5	4239.6
7.5°	4929.8	4919.2	4790.1	4634.0	4453.2	4265.4	4077.6	3927.4	3811.2	3765.4	3783.0
10°	4925.1	4892.2	4703.2	4453.2	4190.3	3909.8	3639.8	3428.5	3234.8	3135.1	3137.4
12.5°	4899.2	4845.2	4574.1	4250.1	3863.9	3488.3	3075.2	2790.0	2565.8	2433.2	2392.1
15°	4876.9	4783.0	4422.7	3974.3	3494.2	2957.9	2454.3	2102.2	1914.4	1809.9	1808.7
17.5°	4853.4	4723.1	4257.2	3682.1	3069.4	2379.1	1851.0	1582.2	1494.2	1504.8	1487.2
20°	4828.8	4652.7	4084.6	3356.9	2551.7	1774.7	1386.2	1277.1	1301.7	1349.8	1356.9
22.5°	4800.7	4577.6	3899.2	2998.9	2007.1	1335.7	1124.5	1108.0	1171.4	1246.5	1257.1
25°	4757.2	4483.7	3665.6	2624.5	1548.1	1076.3	984.8	996.5	1058.7	1122.1	1129.2
27.5°	4696.1	4367.5	3429.7	2157.3	1163.1	923.7	900.3	915.5	946.0	984.8	994.2
30°	4614.0	4236.0	3158.5	1753.6	931.9	847.4	838.0	846.3	863.9	880.3	885.0
32.5°	4531.8	4109.3	2885.0	1342.8	831.0	796.9	787.6	787.6	787.6	790.0	791.1
35°	4455.5	3989.5	2591.7	1045.8	778.2	757.1	744.2	730.1	727.7	719.5	719.5
37.5°	4413.3	3880.4	2279.4	875.6	739.5	724.2	706.6	683.1	670.2	671.3	669.1
40°	4421.5	3808.8	1995.4	779.4	707.8	691.3	664.4	637.4	629.1	629.1	626.8
42.5°	4514.2	3785.3	1723.1	728.9	677.2	658.5	624.4	599.8	595.1	593.9	596.3
45°	4727.8	3842.8	1478.9	696.0	651.5	623.3	589.2	566.9	562.2	562.2	561.0
47.5°	5144.5	4029.5	1304.0	674.9	632.7	596.3	561.0	538.8	530.6	528.2	528.2
50°	5792.4	4434.4	1173.7	656.2	609.2	571.6	535.3	509.4	496.5	495.3	494.2
52.5°	6692.7	5065.9	1123.3	642.1	583.3	545.8	505.9	481.2	464.8	461.3	458.9
55°	7745.5	5947.4	1192.5	631.5	556.3	516.5	475.4	449.5	434.3	427.2	426.1
57.5°	8965.0	7006.1	1455.4	617.4	531.7	484.8	444.8	419.1	402.6	394.4	392.0
60°	10060.1	8094.2	1914.4	609.2	510.6	450.7	409.7	386.2	370.9	362.7	361.5
62.5°	11263.3	9131.7	2462.5	631.5	501.2	417.9	376.8	355.6	342.7	334.5	334.5
65°	12548.5	10170.5	2825.2	706.6	515.3	392.0	341.5	323.9	312.2	306.3	305.1
67.5°	13414.7	10529.7	2327.5	784.1	550.4	363.9	307.5	293.5	286.4	280.5	280.5
69°	13320.9	10075.4	1717.2	804.0	561.0	349.8	288.8	278.2	268.8	266.5	264.1
70°	13023.9	9557.8	1439.0	791.1	552.8	336.8	277.0	264.1	255.9	253.5	252.4
72.5°	11600.1	8289.0	1071.6	687.8	470.7	292.3	245.3	233.6	226.5	223.0	223.0
75°	9637.6	6774.8	836.9	547.0	368.6	246.5	210.1	200.7	194.8	192.5	191.3
77.5°	5401.6	3783.0	601.0	428.4	279.4	199.5	176.1	167.9	162.0	159.7	159.7
80°	1504.8	1081.0	353.3	282.9	190.1	151.4	139.7	133.8	125.6	119.7	123.2
82.5°	566.9	468.3	201.9	170.2	120.9	100.9	97.4	92.7	89.2	81.0	81.0
85°	275.9	227.7	129.1	90.4	66.9	52.9	50.5	48.2	45.8	39.9	41.1
87.5°	95.1	100.9	56.4	32.9	20.0	12.9	10.6	5.9	5.9	5.9	5.9
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)