

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: P454285

Luminaire Tested: **GALN-SA5B-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454285  
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-SA5B-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA 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: 17144 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

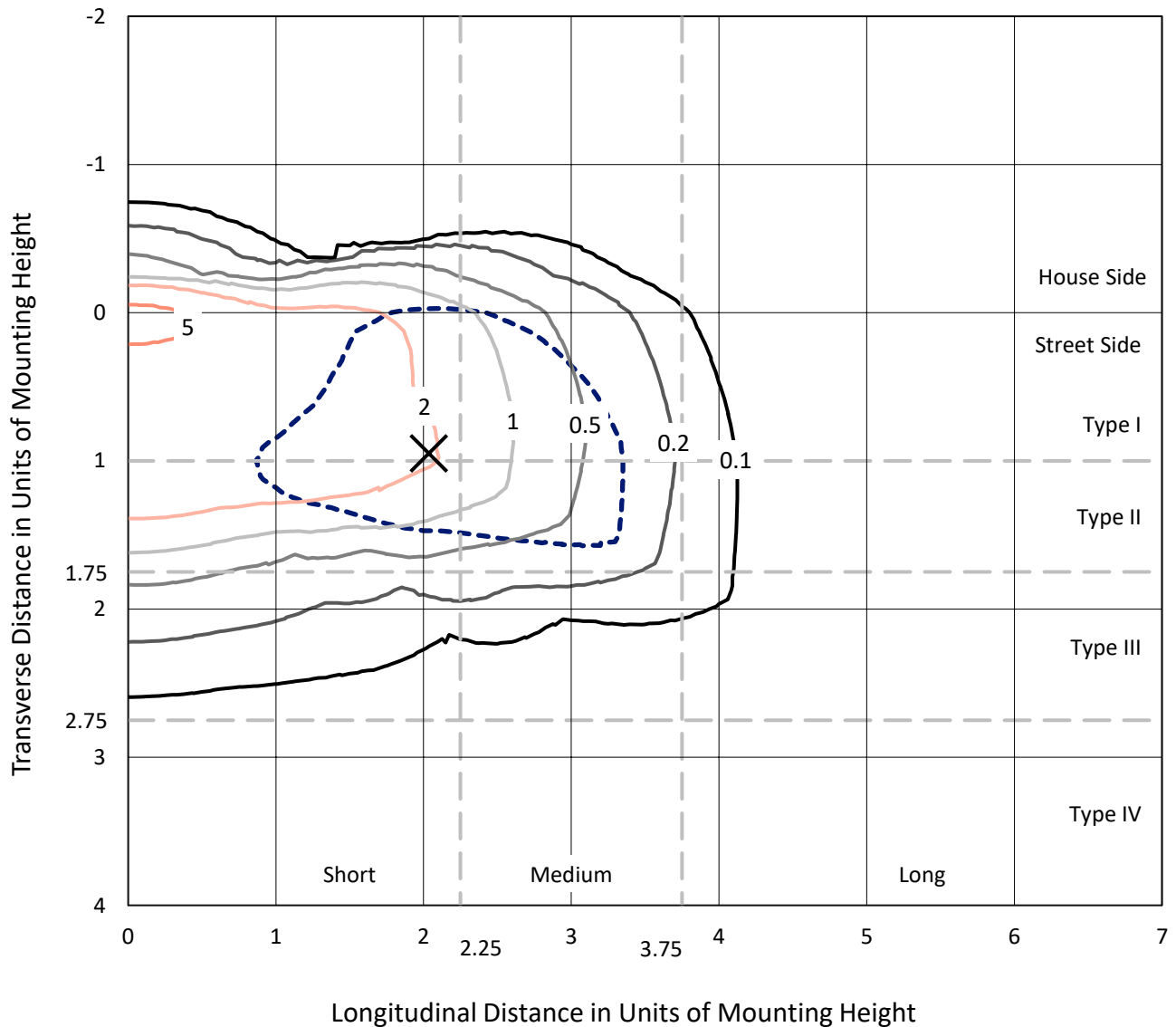
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

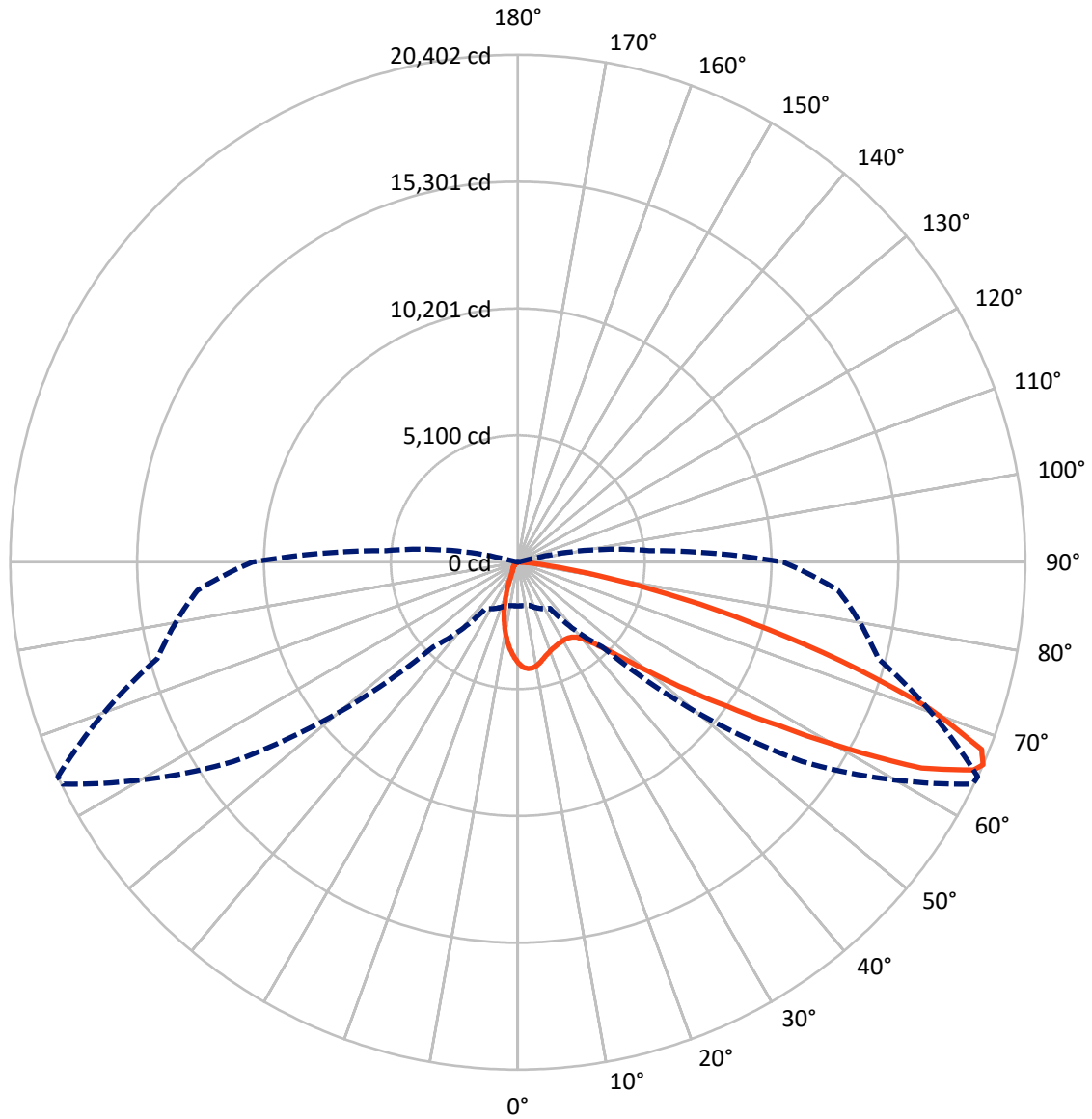
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	1772.9	0.0	1772.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	15371.1	0.0	15371.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	17144.0	0.0	17144.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.5	1.9
10°-20°	724.5	4.2
20°-30°	1037.8	6.1
30°-40°	1515.8	8.8
40°-50°	2541.7	14.8
50°-60°	4241.7	24.7
60°-70°	4502.4	26.3
70°-80°	2039.1	11.9
80°-90°	208.6	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°	17144.0	100.0
0°-180°	17144.0	100.0

**Coefficient of Utilization**



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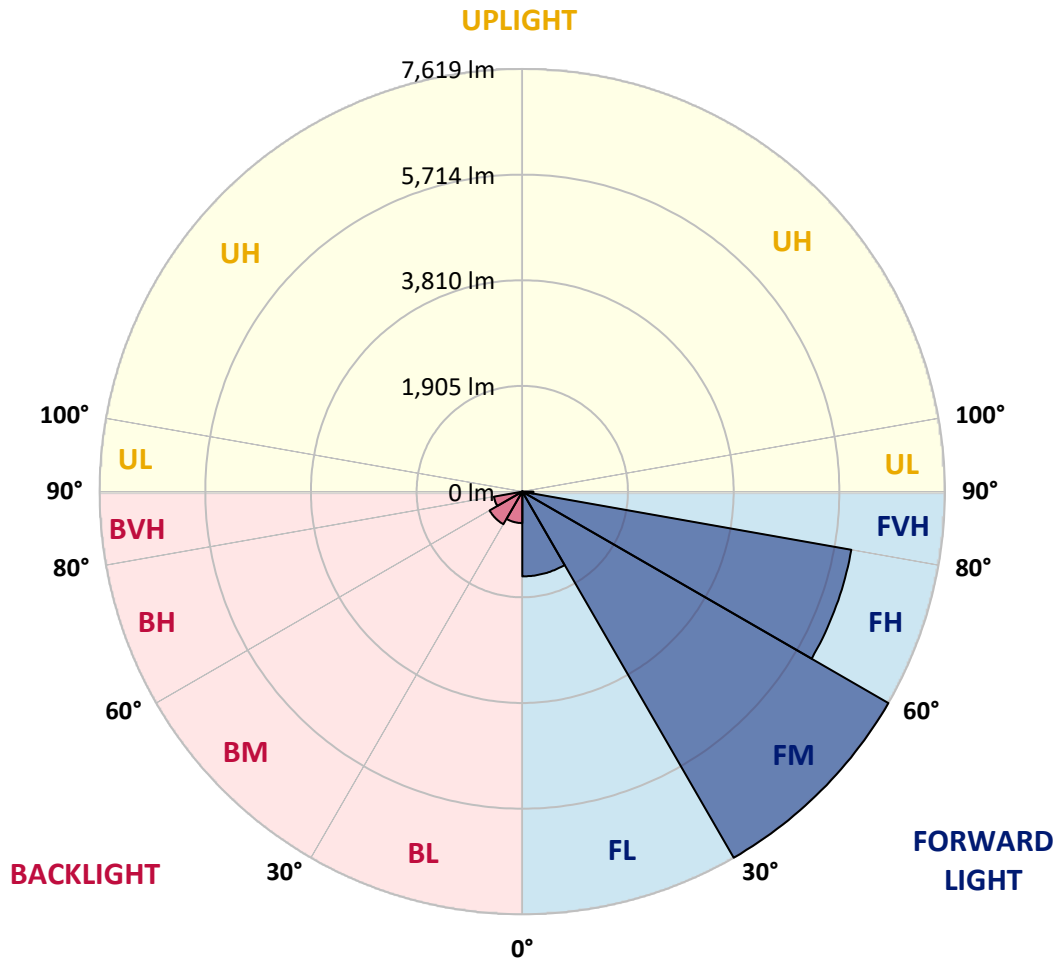
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.6	8.9			
FM (30°-60°)	7619.2	44.4			
FH (60°-80°)	6022.3	35.1			G3/7500
FVH (80°-90°)	202.0	1.2			G2/225
BL (0°-30°)	567.1	3.3	B2/1000		
BM (30°-60°)	679.9	4.0	B1/1000		
BH (60°-80°)	519.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.6	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°	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5
2.5°	4284.3	4289.0	4294.7	4302.8	4308.6	4291.3	4267.0	4239.2	4233.4	4174.3	4102.5
5°	4055.1	4062.0	4112.9	4140.7	4203.3	4260.0	4295.9	4300.5	4298.2	4242.6	4128.0
7.5°	3728.5	3748.2	3798.0	3846.6	3963.6	4071.3	4198.6	4287.8	4293.6	4278.5	4136.1
10°	3463.4	3476.1	3501.6	3597.7	3694.9	3859.4	4037.7	4205.6	4219.5	4279.7	4129.2
12.5°	3256.1	3274.6	3305.9	3380.0	3496.9	3652.1	3854.7	4080.5	4109.5	4257.7	4109.5
15°	3111.3	3120.6	3151.9	3224.8	3338.3	3481.9	3686.8	3949.7	3975.2	4228.7	4106.0
17.5°	3043.0	3053.4	3075.4	3133.3	3227.1	3360.3	3560.6	3844.3	3876.7	4210.2	4118.7
20°	3061.6	3070.8	3072.0	3102.1	3165.8	3278.1	3468.0	3745.9	3787.6	4198.6	4139.6
22.5°	3166.9	3168.1	3154.2	3140.3	3162.3	3243.3	3411.2	3683.4	3726.2	4196.3	4163.9
25°	3324.4	3327.9	3304.7	3256.1	3212.1	3253.8	3398.5	3642.8	3681.0	4190.5	4179.0
27.5°	3542.1	3540.9	3534.0	3452.9	3327.9	3300.1	3408.9	3620.8	3653.3	4174.3	4184.7
30°	3846.6	3837.4	3822.3	3730.8	3539.8	3412.4	3452.9	3606.9	3637.0	4151.2	4169.7
32.5°	4146.5	4181.3	4179.0	4092.1	3853.6	3612.7	3544.4	3625.5	3647.5	4136.1	4147.7
35°	4496.2	4495.1	4584.2	4551.8	4272.7	3868.6	3700.7	3686.8	3704.2	4146.5	4137.3
37.5°	4820.4	4850.5	4989.5	5023.1	4768.3	4229.9	3921.9	3818.8	3824.6	4217.2	4162.7
40°	5224.6	5282.5	5489.7	5602.0	5377.4	4766.0	4248.4	4060.8	4062.0	4390.9	4258.8
42.5°	5745.6	5837.1	6030.5	6218.1	6097.6	5400.6	4738.2	4444.1	4441.8	4696.5	4478.9
45°	6379.0	6442.7	6662.7	6960.3	6883.9	6286.4	5451.5	5038.1	5008.0	5197.9	4869.1
47.5°	6925.5	7012.4	7235.9	7575.1	7922.5	7367.9	6303.7	5854.5	5834.8	5995.7	5538.4
50°	7164.1	7240.5	7475.6	7951.5	8793.3	8787.5	7572.8	7046.0	7012.4	7099.2	6573.5
52.5°	6902.4	6974.2	7211.6	7804.4	9203.2	10517.4	9411.6	8540.9	8500.3	8389.2	7810.2
55°	6006.2	6065.2	6416.1	7096.9	9045.7	11670.7	11945.2	10387.7	10230.3	9798.4	9210.1
57.5°	4782.2	4752.1	4969.8	5760.7	8121.7	12057.5	14545.9	12688.5	12407.2	11016.5	10394.7
60°	3314.0	3406.6	3494.6	4015.7	6106.9	11387.0	16163.5	15581.0	15210.5	12215.0	11529.5
62.5°	2436.3	2497.6	2555.5	2796.4	3839.7	9092.0	16449.5	18552.3	18223.4	13487.5	12612.1
65°	1926.8	1931.4	1954.6	2192.0	2530.1	5912.4	15075.0	20227.8	20143.3	14712.6	13051.0
66°	1755.4	1756.6	1792.5	2047.2	2270.7	4814.7	13973.8	20355.2	20401.5	15006.7	12922.4
67.5°	1534.3	1529.6	1581.7	1839.9	2068.1	3471.5	12003.1	19838.7	20113.2	15232.5	12460.4
70°	1189.2	1183.4	1247.1	1543.5	1904.8	2315.9	7978.1	17034.2	17476.6	14770.5	11024.6
72.5°	792.0	796.7	905.5	1218.1	1817.9	2039.1	4799.6	12958.3	13583.6	12197.6	8672.9
75°	462.0	470.1	594.0	905.5	1578.3	1944.2	2716.5	9240.2	9639.7	8422.7	5402.9
77.5°	242.0	245.5	332.3	597.5	1210.0	1805.2	1809.8	5903.1	6090.7	4093.3	2138.7
80°	128.5	125.1	178.3	360.1	832.5	1585.2	1468.2	3125.2	3249.1	1215.8	540.8
82.5°	48.6	53.3	94.9	236.2	492.1	1138.2	1264.5	1381.4	1338.6	267.5	227.0
85°	9.3	11.6	40.5	140.1	247.8	475.9	932.1	677.4	627.6	100.7	130.8
87.5°	1.2	2.3	11.6	33.6	35.9	161.0	275.6	187.6	162.1	37.1	54.4
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°	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5
2.5°	4067.8	4036.5	3932.3	3829.3	3723.9	3628.9	3564.1	3458.7	3432.1	3393.9	3371.9
5°	4059.7	3986.7	3786.4	3567.6	3363.8	3143.8	2975.9	2813.8	2726.9	2682.9	2666.7
7.5°	4036.5	3920.7	3608.1	3265.3	2938.8	2610.0	2324.0	2106.3	1966.2	1870.0	1805.2
10°	3990.2	3830.4	3400.8	2929.6	2436.3	2002.1	1639.6	1364.0	1151.0	1083.8	1086.1
12.5°	3942.7	3729.7	3169.2	2556.7	1945.3	1397.6	1013.2	795.5	693.6	660.0	653.1
15°	3898.7	3633.6	2942.3	2195.4	1448.6	905.5	653.1	576.6	548.9	543.1	541.9
17.5°	3875.6	3544.4	2700.3	1782.0	1010.9	614.9	523.4	502.5	494.4	488.6	486.3
20°	3855.9	3466.8	2468.7	1395.3	691.3	503.7	469.0	449.3	435.4	429.6	426.1
22.5°	3842.0	3386.9	2229.0	1080.3	529.2	447.0	415.7	390.2	370.5	363.6	359.0
25°	3821.2	3298.9	1987.0	789.7	445.8	397.2	361.3	331.2	305.7	293.0	290.6
27.5°	3791.0	3199.3	1721.8	584.8	398.3	353.2	309.2	272.1	246.6	232.7	233.9
30°	3742.4	3095.1	1456.7	464.3	360.1	308.0	260.5	224.6	200.3	189.9	188.7
32.5°	3684.5	2968.9	1213.5	398.3	325.4	267.5	217.7	186.4	167.9	159.8	158.6
35°	3630.1	2841.5	965.7	357.8	289.5	230.4	183.0	156.3	142.4	135.5	136.6
37.5°	3600.0	2728.1	752.7	325.4	260.5	198.0	157.5	134.3	121.6	115.8	114.6
40°	3619.7	2635.4	598.6	296.4	228.1	170.2	135.5	115.8	103.1	94.9	94.9
42.5°	3712.3	2594.9	482.9	268.6	198.0	147.1	118.1	99.6	85.7	77.6	78.7
45°	3994.8	2637.8	404.1	243.2	170.2	127.4	101.9	82.2	69.5	63.7	62.5
47.5°	4463.8	2798.7	349.7	216.5	145.9	108.8	85.7	68.3	55.6	50.9	49.8
50°	5283.6	3131.0	309.2	189.9	123.9	92.6	70.6	54.4	44.0	39.4	39.4
52.5°	6411.4	3855.9	280.2	159.8	104.2	78.7	57.9	44.0	34.7	31.3	30.1
55°	7590.2	4620.1	265.2	134.3	86.8	64.8	46.3	34.7	26.6	23.2	22.0
57.5°	8723.8	5219.9	247.8	108.8	69.5	49.8	35.9	26.6	18.5	16.2	15.1
60°	9811.1	5705.1	210.7	86.8	54.4	35.9	26.6	18.5	12.7	10.4	10.4
62.5°	10783.8	5987.6	165.6	69.5	41.7	25.5	17.4	13.9	9.3	6.9	6.9
65°	10897.2	5620.6	125.1	53.3	30.1	16.2	10.4	10.4	6.9	4.6	4.6
66°	10669.1	5309.1	110.0	48.6	26.6	13.9	9.3	8.1	5.8	3.5	3.5
67.5°	10159.6	4777.6	94.9	41.7	22.0	10.4	6.9	6.9	4.6	2.3	2.3
70°	8778.2	3902.2	75.3	31.3	16.2	8.1	4.6	4.6	3.5	2.3	2.3
72.5°	6690.5	2913.3	61.4	23.2	11.6	5.8	3.5	3.5	3.5	2.3	2.3
75°	4035.4	1569.0	47.5	17.4	10.4	4.6	2.3	3.5	4.6	3.5	2.3
77.5°	1486.8	533.8	37.1	13.9	8.1	4.6	2.3	2.3	4.6	3.5	3.5
80°	364.7	139.0	26.6	11.6	8.1	4.6	2.3	2.3	4.6	4.6	4.6
82.5°	169.1	59.1	18.5	10.4	8.1	4.6	2.3	2.3	3.5	4.6	4.6
85°	97.3	27.8	15.1	11.6	8.1	4.6	2.3	2.3	3.5	4.6	4.6
87.5°	39.4	13.9	13.9	11.6	9.3	5.8	2.3	2.3	2.3	3.5	3.5
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)