

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: P455213

Luminaire Tested: **GALN-SA6B-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455213  
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-SA6B-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 20301 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

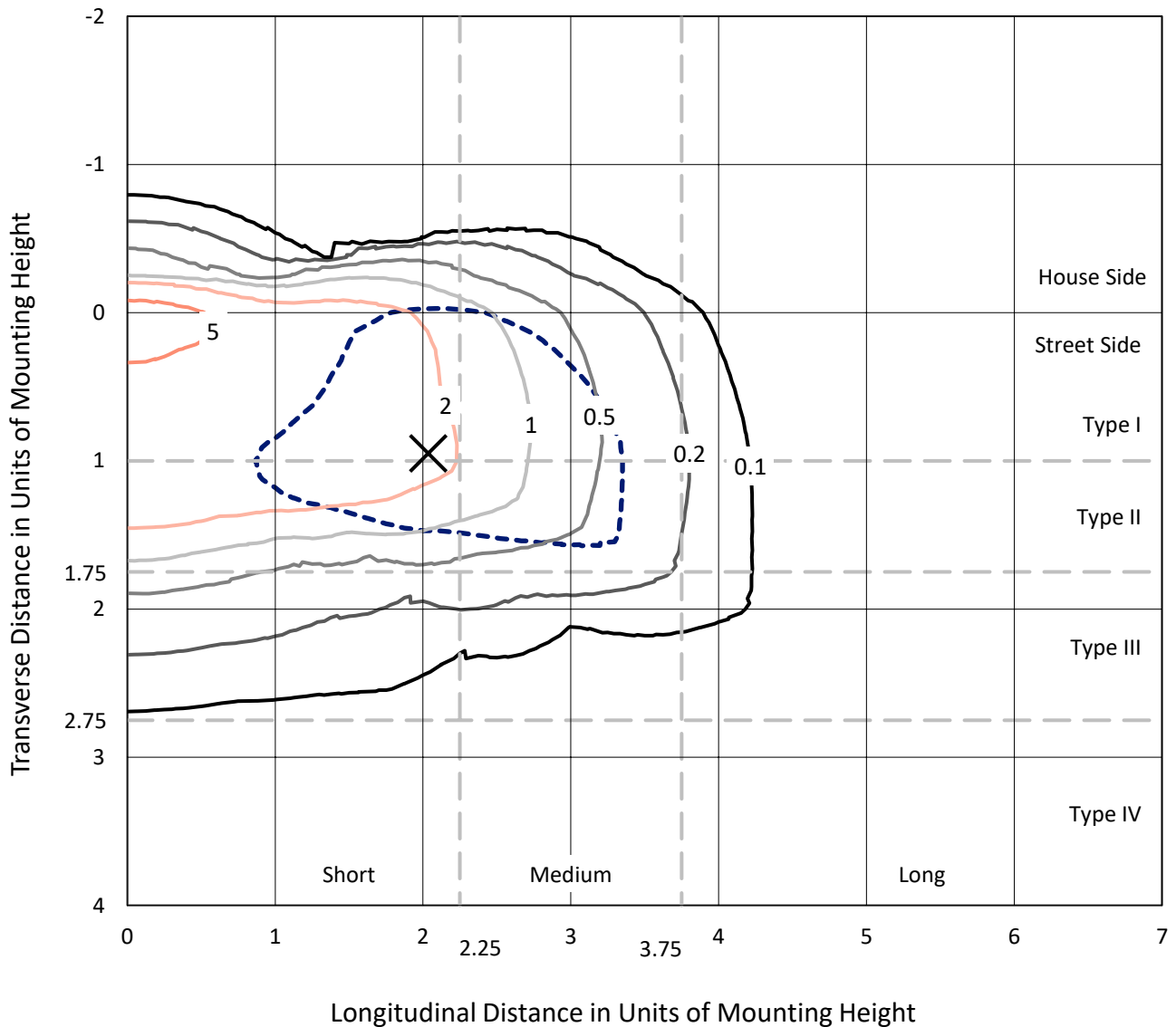
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455213  
 CATALOG NUMBER: GALN-SA6B-827-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

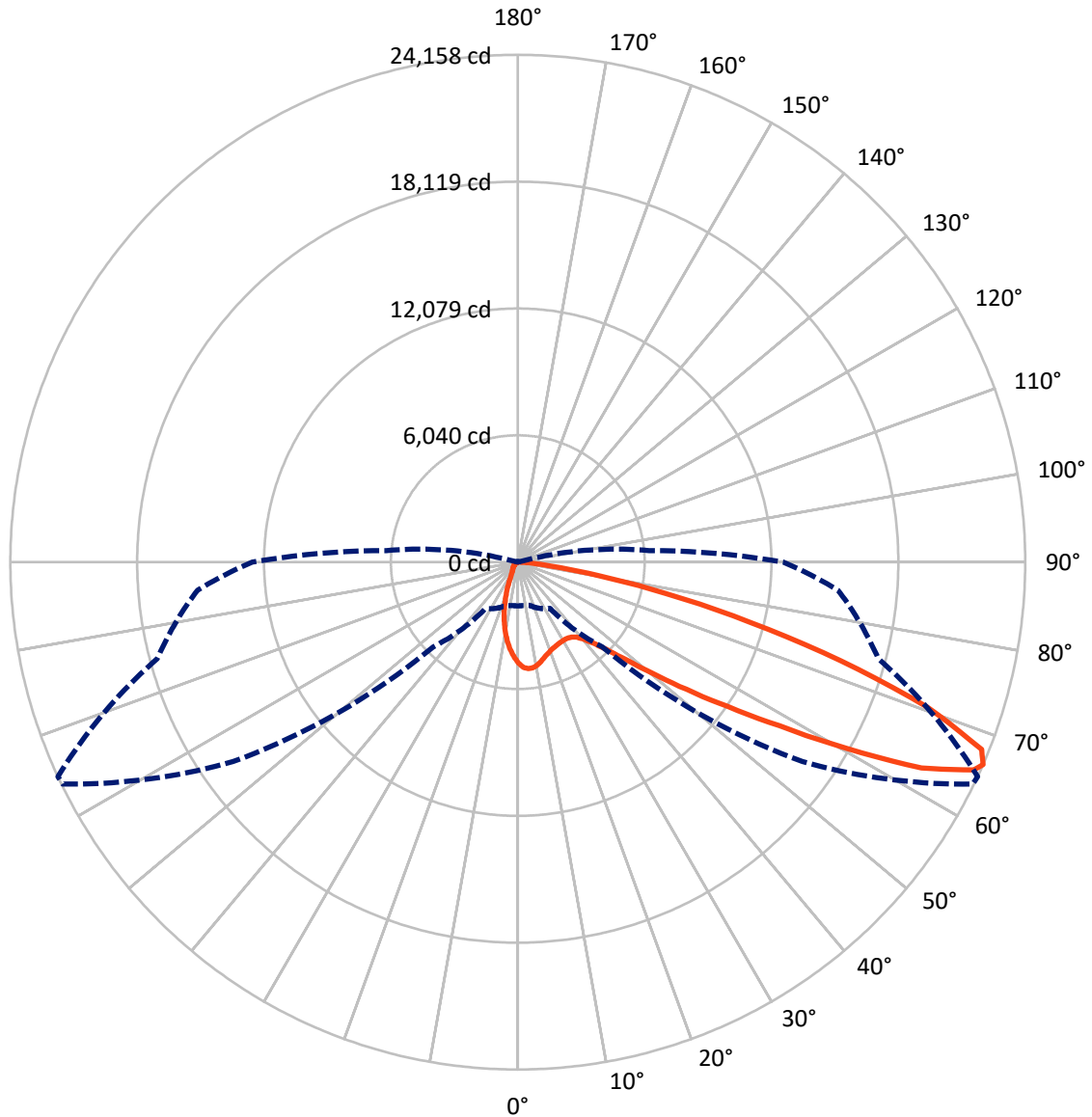
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P455213  
CATALOG NUMBER: GALN-SA6B-827-U-SL2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P455213

CATALOG NUMBER: GALN-SA6B-827-U-SL2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2099.4	0.0	2099.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	18201.6	0.0	18201.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	20301.0	0.0	20301.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.7	1.9
10°-20°	857.9	4.2
20°-30°	1228.9	6.1
30°-40°	1794.9	8.8
40°-50°	3009.7	14.8
50°-60°	5022.7	24.7
60°-70°	5331.5	26.3
70°-80°	2414.6	11.9
80°-90°	247.1	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°	20301.0	100.0
0°-180°	20301.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455213

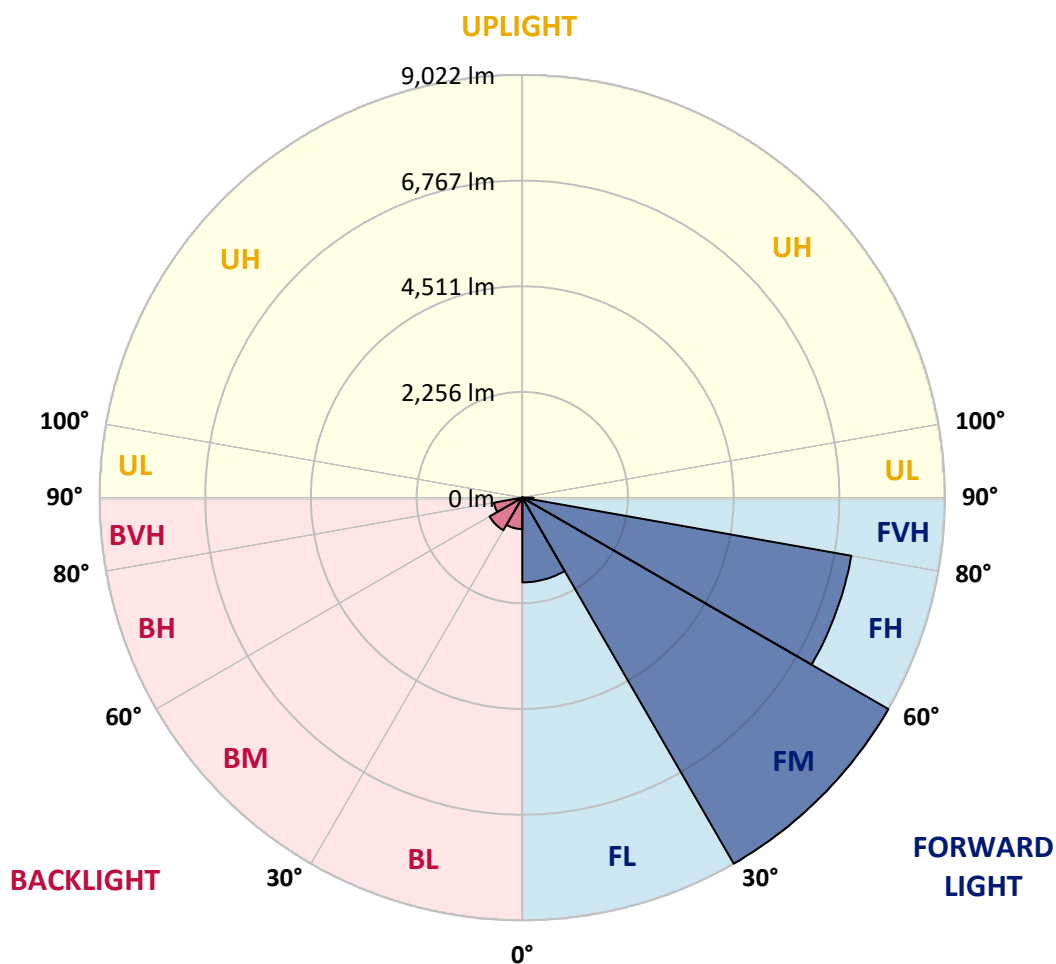
CATALOG NUMBER: GALN-SA6B-827-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.9	8.9			
FM (30°-60°)	9022.2	44.4			
FH (60°-80°)	7131.3	35.1			G3/7500
FVH (80°-90°)	239.2	1.2			G3/500
BL (0°-30°)	671.6	3.3	B2/1000		
BM (30°-60°)	805.1	4.0	B1/1000		
BH (60°-80°)	614.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.9	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





REPORT NUMBER: P455213

CATALOG NUMBER: GALN-SA6B-827-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1
2.5°	5073.3	5078.7	5085.6	5095.2	5102.1	5081.5	5052.7	5019.8	5012.9	4943.0	4858.0
5°	4801.8	4810.0	4870.3	4903.2	4977.3	5044.5	5087.0	5092.5	5089.7	5023.9	4888.2
7.5°	4415.1	4438.4	4497.4	4555.0	4693.5	4821.0	4971.8	5077.4	5084.2	5066.4	4897.8
10°	4101.1	4116.2	4146.4	4260.2	4375.3	4570.1	4781.2	4980.0	4996.5	5067.8	4889.5
12.5°	3855.7	3877.6	3914.6	4002.4	4140.9	4324.6	4564.6	4831.9	4866.2	5041.7	4866.2
15°	3684.3	3695.3	3732.3	3818.7	3953.0	4123.1	4365.7	4677.0	4707.2	5007.4	4862.1
17.5°	3603.4	3615.7	3641.8	3710.3	3821.4	3979.1	4216.3	4552.2	4590.6	4985.5	4877.2
20°	3625.3	3636.3	3637.7	3673.3	3748.7	3881.7	4106.6	4435.7	4485.0	4971.8	4901.9
22.5°	3750.1	3751.5	3735.0	3718.6	3744.6	3840.6	4039.4	4361.6	4412.4	4969.1	4930.7
25°	3936.6	3940.7	3913.3	3855.7	3803.6	3852.9	4024.3	4313.6	4358.9	4962.2	4948.5
27.5°	4194.4	4193.0	4184.8	4088.8	3940.7	3907.8	4036.7	4287.6	4326.0	4943.0	4955.3
30°	4555.0	4544.0	4526.2	4417.9	4191.6	4040.8	4088.8	4271.1	4306.8	4915.6	4937.5
32.5°	4910.1	4951.2	4948.5	4845.7	4563.2	4278.0	4197.1	4293.1	4319.1	4897.8	4911.5
35°	5324.2	5322.8	5428.4	5390.0	5059.6	4581.0	4382.2	4365.7	4386.3	4910.1	4899.1
37.5°	5708.1	5743.8	5908.3	5948.1	5646.4	5008.8	4644.1	4522.1	4528.9	4993.7	4929.3
40°	6186.6	6255.2	6500.6	6633.6	6367.6	5643.7	5030.8	4808.6	4810.0	5199.4	5043.1
42.5°	6803.7	6912.0	7141.0	7363.1	7220.5	6395.1	5610.8	5262.5	5259.7	5561.4	5303.6
45°	7553.7	7629.1	7889.6	8242.0	8151.5	7444.0	6455.4	5965.9	5930.2	6155.1	5765.7
47.5°	8200.9	8303.7	8568.3	8970.1	9381.4	8724.6	7464.6	6932.5	6909.2	7099.8	6558.2
50°	8483.3	8573.8	8852.2	9415.7	10412.5	10405.7	8967.3	8343.5	8303.7	8406.5	7784.0
52.5°	8173.4	8258.5	8539.5	9241.6	10897.9	12454.2	11144.7	10113.6	10065.6	9934.0	9248.4
55°	7112.2	7182.1	7597.6	8403.8	10711.4	13819.8	14144.8	12300.6	12114.1	11602.7	10906.1
57.5°	5662.9	5627.2	5885.0	6821.5	9617.3	14277.8	17224.4	15025.1	14691.9	13045.1	12308.8
60°	3924.2	4033.9	4138.1	4755.2	7231.5	13483.9	19139.9	18450.2	18011.5	14464.3	13652.6
62.5°	2884.9	2957.6	3026.1	3311.3	4546.7	10766.3	19478.6	21968.6	21579.2	15971.2	14934.6
65°	2281.6	2287.1	2314.5	2595.6	2996.0	7001.1	17851.0	23952.7	23852.6	17421.9	15454.3
66°	2078.7	2080.0	2122.5	2424.2	2688.8	5701.3	16547.1	24103.5	24158.3	17770.1	15302.1
67.5°	1816.8	1811.3	1873.0	2178.8	2448.9	4110.7	14213.4	23492.0	23816.9	18037.5	14755.0
70°	1408.2	1401.3	1476.7	1827.7	2255.5	2742.3	9447.2	20171.0	20694.8	17490.4	13054.7
72.5°	937.9	943.4	1072.2	1442.5	2152.7	2414.6	5683.4	15344.6	16085.0	14443.7	10269.9
75°	547.1	556.7	703.4	1072.2	1868.9	2302.2	3216.7	10941.8	11414.8	9973.8	6397.8
77.5°	286.6	290.7	393.5	707.5	1432.9	2137.6	2143.1	6990.1	7212.3	4847.0	2532.5
80°	152.2	148.1	211.2	426.4	985.9	1877.1	1738.6	3700.7	3847.5	1439.7	640.3
82.5°	57.6	63.1	112.4	279.7	582.7	1347.8	1497.3	1635.8	1585.1	316.7	268.7
85°	11.0	13.7	48.0	165.9	293.4	563.5	1103.8	802.1	743.2	119.3	154.9
87.5°	1.4	2.7	13.7	39.8	42.5	190.6	326.3	222.1	192.0	43.9	64.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455213  
 CATALOG NUMBER: GALN-SA6B-827-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1
2.5°	4816.9	4779.8	4656.4	4534.4	4409.6	4297.2	4220.4	4095.6	4064.1	4018.8	3992.8
5°	4807.3	4720.9	4483.7	4224.5	3983.2	3722.7	3523.9	3331.9	3229.1	3177.0	3157.8
7.5°	4779.8	4642.7	4272.5	3866.6	3480.0	3090.6	2751.9	2494.1	2328.2	2214.4	2137.6
10°	4725.0	4535.8	4027.1	3469.0	2884.9	2370.7	1941.6	1615.2	1362.9	1283.4	1286.1
12.5°	4668.8	4416.5	3752.8	3027.5	2303.5	1655.0	1199.8	942.0	821.3	781.6	773.3
15°	4616.7	4302.7	3484.1	2599.7	1715.3	1072.2	773.3	682.8	649.9	643.1	641.7
17.5°	4589.2	4197.1	3197.5	2110.2	1197.0	728.1	619.8	595.1	585.5	578.6	575.9
20°	4565.9	4105.2	2923.3	1652.2	818.6	596.5	555.3	532.0	515.6	508.7	504.6
22.5°	4549.5	4010.6	2639.5	1279.3	626.6	529.3	492.2	462.1	438.8	430.5	425.1
25°	4524.8	3906.4	2352.9	935.1	527.9	470.3	427.8	392.1	362.0	346.9	344.2
27.5°	4489.2	3788.5	2038.9	692.4	471.7	418.2	366.1	322.2	292.1	275.6	277.0
30°	4431.6	3665.1	1724.9	549.8	426.4	364.7	308.5	266.0	237.2	224.9	223.5
32.5°	4363.0	3515.6	1437.0	471.7	385.3	316.7	257.8	220.8	198.8	189.2	187.8
35°	4298.6	3364.8	1143.5	423.7	342.8	272.9	216.6	185.1	168.7	160.4	161.8
37.5°	4262.9	3230.4	891.2	385.3	308.5	234.5	186.5	159.1	144.0	137.1	135.7
40°	4286.2	3120.7	708.9	351.0	270.1	201.6	160.4	137.1	122.0	112.4	112.4
42.5°	4395.9	3072.8	571.8	318.1	234.5	174.1	139.9	117.9	101.5	91.9	93.2
45°	4730.5	3123.5	478.5	287.9	201.6	150.8	120.7	97.4	82.3	75.4	74.0
47.5°	5285.8	3314.1	414.1	256.4	172.8	128.9	101.5	80.9	65.8	60.3	59.0
50°	6256.6	3707.6	366.1	224.9	146.7	109.7	83.6	64.4	52.1	46.6	46.6
52.5°	7592.1	4565.9	331.8	189.2	123.4	93.2	68.6	52.1	41.1	37.0	35.6
55°	8987.9	5470.9	314.0	159.1	102.8	76.8	54.8	41.1	31.5	27.4	26.1
57.5°	10330.3	6181.2	293.4	128.9	82.3	59.0	42.5	31.5	21.9	19.2	17.8
60°	11617.8	6755.7	249.5	102.8	64.4	42.5	31.5	21.9	15.1	12.3	12.3
62.5°	12769.5	7090.2	196.1	82.3	49.4	30.2	20.6	16.5	11.0	8.2	8.2
65°	12903.9	6655.6	148.1	63.1	35.6	19.2	12.3	12.3	8.2	5.5	5.5
66°	12633.8	6286.7	130.3	57.6	31.5	16.5	11.0	9.6	6.9	4.1	4.1
67.5°	12030.5	5657.4	112.4	49.4	26.1	12.3	8.2	8.2	5.5	2.7	2.7
70°	10394.7	4620.8	89.1	37.0	19.2	9.6	5.5	5.5	4.1	2.7	2.7
72.5°	7922.5	3449.8	72.7	27.4	13.7	6.9	4.1	4.1	4.1	2.7	2.7
75°	4778.5	1857.9	56.2	20.6	12.3	5.5	2.7	4.1	5.5	4.1	2.7
77.5°	1760.6	632.1	43.9	16.5	9.6	5.5	2.7	2.7	5.5	4.1	4.1
80°	431.9	164.5	31.5	13.7	9.6	5.5	2.7	2.7	5.5	5.5	5.5
82.5°	200.2	69.9	21.9	12.3	9.6	5.5	2.7	2.7	4.1	5.5	5.5
85°	115.2	32.9	17.8	13.7	9.6	5.5	2.7	2.7	4.1	5.5	5.5
87.5°	46.6	16.5	16.5	13.7	11.0	6.9	2.7	2.7	2.7	4.1	4.1
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)