

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: P457867

Luminaire Tested: **GALN-SA9B-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31673 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

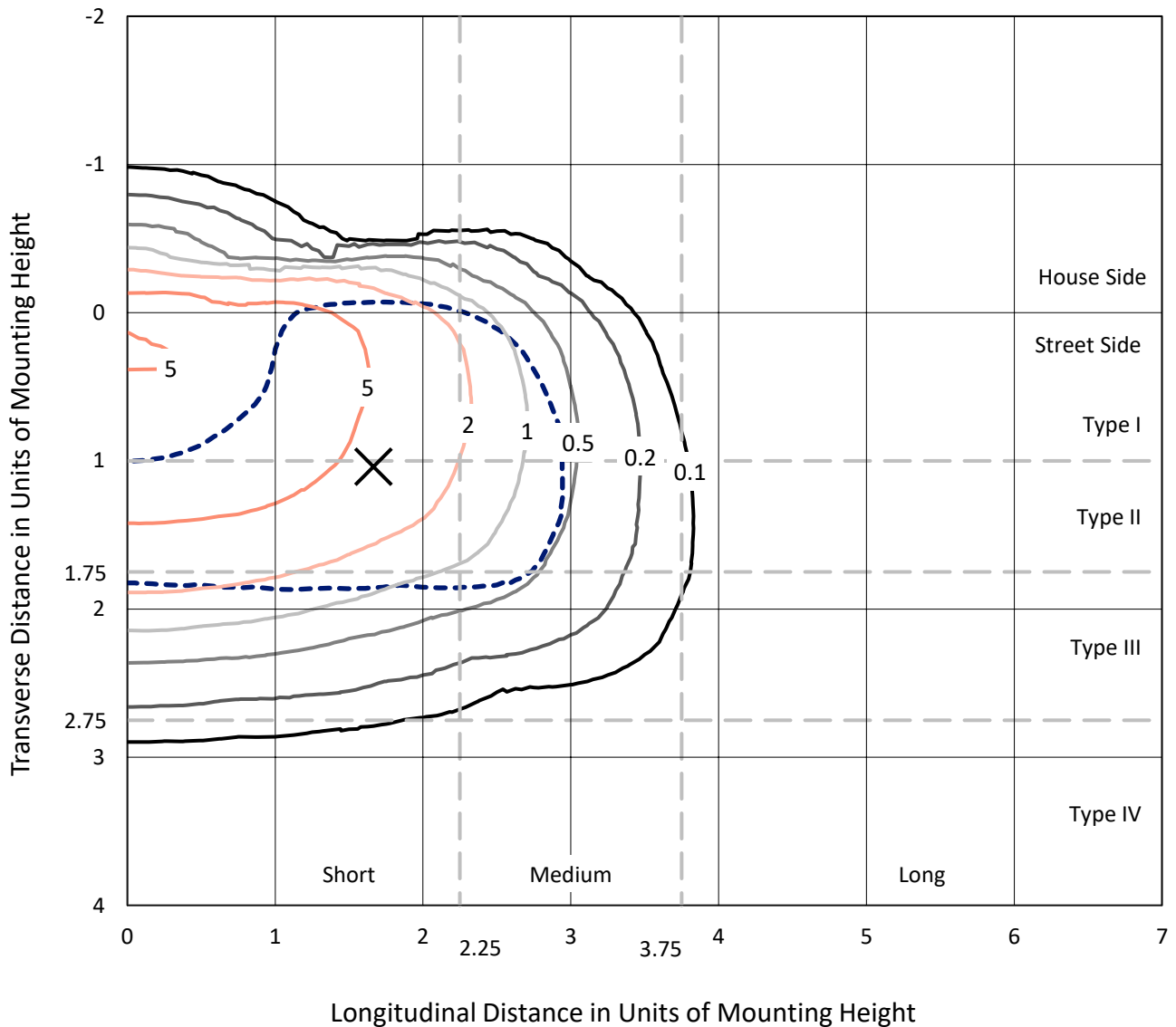
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

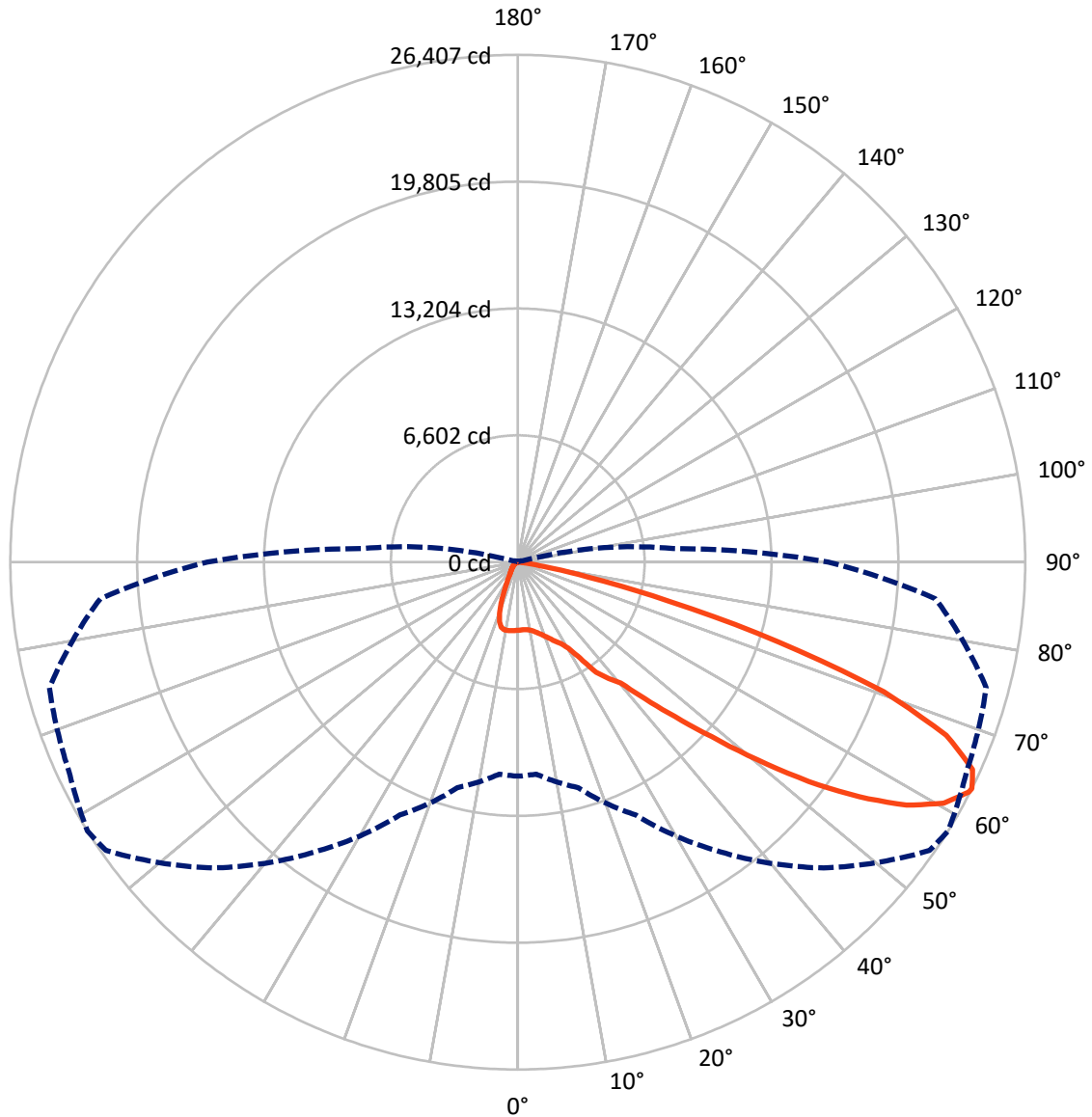
✕ Max cd  
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SA9B-727-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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CATALOG NUMBER: GALN-SA9B-727-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3279.5	0.0	3279.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	28393.5	0.0	28393.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	31673.0	0.0	31673.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.9	1.0
10°-20°	904.1	2.9
20°-30°	1569.1	5.0
30°-40°	2883.4	9.1
40°-50°	5428.0	17.1
50°-60°	9284.1	29.3
60°-70°	8889.6	28.1
70°-80°	2266.9	7.2
80°-90°	115.9	0.4
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°	31673.0	100.0
0°-180°	31673.0	100.0

**Coefficient of Utilization**



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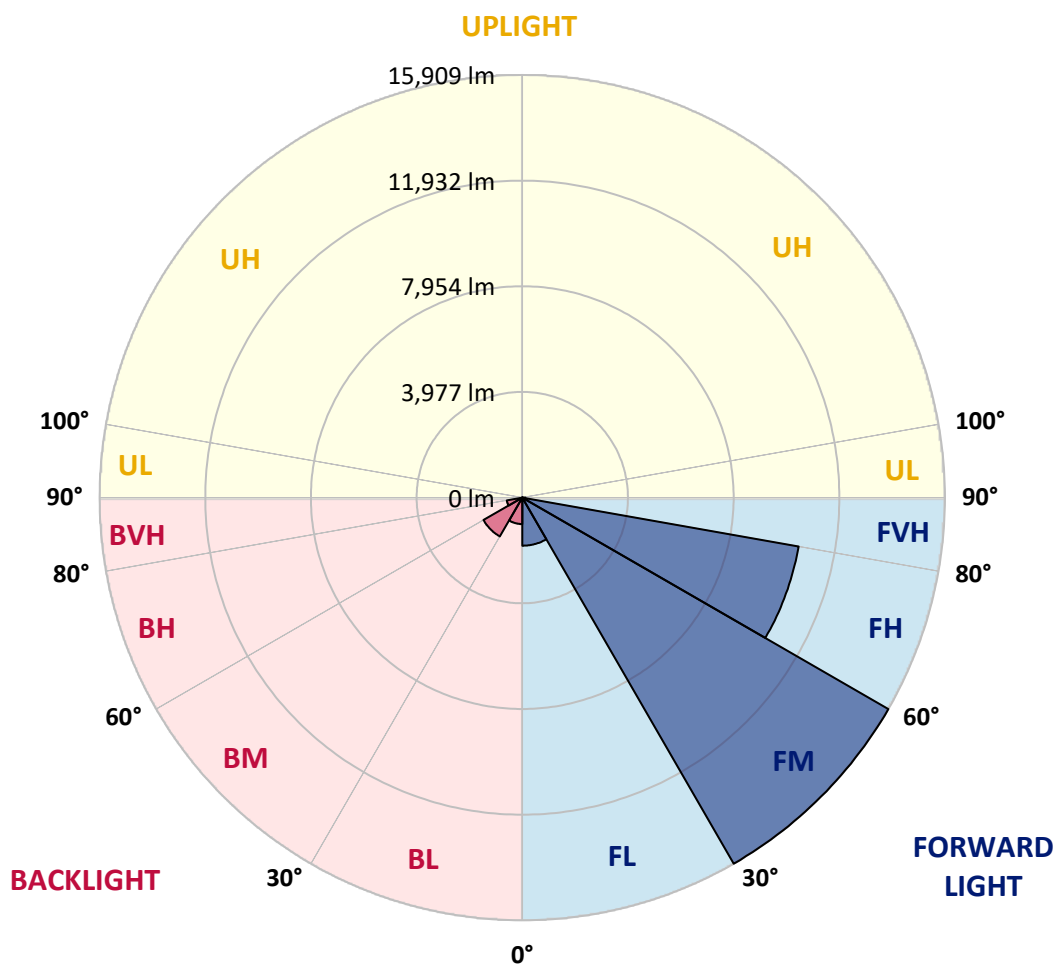
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1810.6	5.7			
FM	(30°-60°)	15908.7	50.2			
FH	(60°-80°)	10562.8	33.3			G4/12000
FVH	(80°-90°)	111.4	0.4			G2/225
BL	(0°-30°)	994.6	3.1	B2/1000		
BM	(30°-60°)	1686.8	5.3	B2/2500		
BH	(60°-80°)	593.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.5	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-G4**

Type III Short





REPORT NUMBER: P457867

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9
2.5°	3457.7	3469.6	3481.5	3486.3	3503.0	3519.7	3531.6	3529.2	3548.3	3557.8	3557.8
5°	3319.4	3319.4	3350.4	3379.0	3426.7	3474.4	3519.7	3529.2	3565.0	3598.4	3610.3
7.5°	3202.5	3209.7	3233.5	3286.0	3350.4	3433.8	3524.5	3545.9	3607.9	3681.8	3712.8
10°	3147.7	3152.5	3183.5	3238.3	3319.4	3433.8	3560.2	3600.8	3696.1	3813.0	3855.9
12.5°	3135.8	3142.9	3173.9	3235.9	3328.9	3467.2	3638.9	3681.8	3820.1	3970.4	4034.8
15°	3157.2	3162.0	3193.0	3259.8	3362.3	3526.8	3743.8	3803.5	3968.0	4142.1	4225.5
17.5°	3233.5	3228.8	3250.2	3305.1	3419.5	3600.8	3870.2	3941.8	4134.9	4373.4	4428.2
20°	3557.8	3526.8	3507.8	3460.1	3505.4	3705.7	4022.8	4127.8	4366.2	4609.5	4647.6
22.5°	4256.5	4187.4	4051.5	3865.5	3722.4	3848.8	4206.5	4328.1	4635.7	4874.1	4874.1
25°	5146.0	5057.8	4921.8	4516.5	4165.9	4084.8	4413.9	4566.5	4929.0	5169.8	5091.1
27.5°	6259.6	6190.4	5925.8	5453.6	4917.1	4497.4	4654.8	4795.5	5188.9	5479.8	5315.3
30°	7165.8	7132.4	6915.4	6493.3	5901.9	5289.1	5103.1	5196.1	5534.7	5870.9	5701.6
32.5°	7931.2	7931.2	7709.4	7316.0	6762.8	6219.1	5863.8	5930.5	6254.8	6643.5	6328.8
35°	8773.0	8744.4	8565.5	8191.1	7571.1	7091.8	6946.4	7037.0	7330.3	7618.8	6843.8
37.5°	9657.7	9648.1	9462.1	9099.7	8594.1	7990.8	7649.8	7673.7	7823.9	8000.4	7447.1
40°	10618.7	10633.0	10389.7	10165.6	9688.7	9071.1	8417.7	8267.4	8408.1	8906.5	8560.7
42.5°	11753.7	11720.4	11615.4	11310.2	10926.3	10556.7	9772.1	9717.3	9841.3	10375.4	10001.1
45°	13072.4	13120.1	12938.9	12769.6	12512.0	12204.4	11548.7	11453.3	11589.2	12419.0	11887.3
47.5°	14393.5	14348.2	14465.0	14434.0	14572.4	14343.4	13764.0	13568.4	13895.1	14682.0	13899.9
50°	15399.8	15449.9	15693.1	16048.4	16642.2	16771.0	16215.3	16148.6	16294.0	16799.6	15700.3
52.5°	16053.2	16220.1	16601.7	17515.0	18585.6	19417.9	18995.8	18960.0	18900.4	19036.3	17422.0
55°	16480.0	16649.3	17147.7	18492.6	20336.0	21688.0	21709.5	21556.9	21163.4	21065.6	19031.6
57.5°	16217.7	16251.1	16961.7	18759.7	21306.5	23307.2	24008.3	23855.6	23128.3	22758.7	20452.8
60°	14577.1	14646.3	15635.9	17748.7	20884.4	23836.6	25532.0	25462.9	24666.4	24249.1	21559.3
62.5°	11670.3	11870.6	12888.8	15244.8	18921.9	22944.7	26149.6	26345.2	25725.2	25150.5	21907.4
63°	11136.1	11071.7	12147.2	14515.1	18402.0	22503.6	26159.2	26407.2	25772.9	25236.3	21812.0
65°	8243.6	8436.7	9135.4	11446.1	15314.0	20450.4	25570.2	26008.9	25596.4	24857.2	20755.6
67.5°	4628.5	4619.0	5391.6	7490.1	10718.8	16041.3	23121.2	24048.8	23962.9	22305.6	17205.0
70°	2265.4	2301.1	2618.3	3882.1	6216.7	11067.0	19212.8	20214.3	20245.3	17519.7	11896.8
72.5°	1025.4	1042.1	1268.6	1891.0	3195.4	5892.4	13239.4	14195.6	14019.1	11164.7	6569.6
75°	541.3	577.1	698.7	951.5	1540.5	2429.9	7201.5	8126.8	7757.1	5100.7	2418.0
77.5°	400.6	412.5	474.5	605.7	825.1	946.7	3107.1	3696.1	3462.5	1845.7	801.2
80°	293.3	302.8	352.9	429.2	519.8	481.7	1170.8	1342.5	1204.2	627.2	245.6
82.5°	178.8	181.2	257.5	319.5	326.7	269.5	386.3	414.9	434.0	352.9	133.5
85°	64.4	81.1	174.1	231.3	193.2	135.9	162.2	178.8	195.5	224.2	78.7
87.5°	7.2	9.5	83.5	112.1	54.8	50.1	59.6	66.8	71.5	83.5	38.2
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°	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9	3545.9
2.5°	3567.4	3576.9	3569.8	3557.8	3555.5	3548.3	3534.0	3534.0	3534.0	3538.8	3534.0
5°	3619.8	3627.0	3610.3	3586.5	3560.2	3526.8	3491.1	3469.6	3467.2	3462.5	3450.5
7.5°	3720.0	3729.5	3691.4	3634.1	3562.6	3481.5	3405.2	3333.7	3300.3	3274.1	3274.1
10°	3865.5	3875.0	3798.7	3696.1	3553.1	3388.5	3207.3	3042.8	2914.0	2854.4	2840.1
12.5°	4039.5	4044.3	3917.9	3739.1	3503.0	3185.8	2799.5	2439.5	2189.1	2074.6	2062.7
15°	4230.3	4196.9	4030.0	3755.8	3359.9	2768.5	2100.8	1659.7	1399.8	1323.5	1352.1
17.5°	4423.5	4361.5	4115.8	3729.5	3038.0	2100.8	1411.7	1132.7	1051.6	1030.2	1030.2
20°	4604.7	4518.8	4177.8	3615.1	2480.0	1447.5	1046.8	980.1	965.8	951.5	953.8
22.5°	4785.9	4654.8	4232.7	3359.9	1848.1	1034.9	937.2	915.7	896.6	877.5	875.2
25°	4962.4	4781.1	4254.1	2887.8	1259.1	889.5	856.1	827.5	789.3	767.8	763.1
27.5°	5146.0	4933.8	4239.8	2291.6	918.1	796.5	763.1	722.5	677.2	639.1	639.1
30°	5498.9	5224.7	4189.8	1647.8	772.6	701.1	658.2	593.8	543.7	505.5	503.2
32.5°	5980.6	5603.8	4018.1	1158.9	686.8	617.6	553.2	481.7	429.2	400.6	400.6
35°	6409.8	5985.4	3696.1	853.7	617.6	536.5	457.8	388.7	348.2	329.1	321.9
37.5°	7063.2	6543.4	3252.6	693.9	550.8	465.0	383.9	319.5	286.2	271.8	271.8
40°	8043.3	7225.4	2708.9	608.1	486.5	395.8	319.5	269.5	243.2	226.5	226.5
42.5°	9259.4	8060.0	2158.1	546.1	426.8	341.0	267.1	228.9	205.1	193.2	190.8
45°	10790.4	8939.9	1662.1	488.8	379.2	290.9	226.5	193.2	169.3	162.2	164.5
47.5°	12388.0	9714.9	1287.7	438.8	329.1	245.6	193.2	166.9	150.2	140.7	140.7
50°	13752.0	10249.1	977.7	381.5	290.9	207.5	169.3	150.2	135.9	131.2	128.8
52.5°	14891.9	10404.1	748.8	331.5	255.2	178.8	150.2	135.9	124.0	116.8	116.8
55°	15862.4	10268.1	586.6	279.0	214.6	155.0	133.5	121.6	107.3	100.2	97.8
57.5°	16430.0	9831.7	448.3	231.3	174.1	128.8	116.8	102.5	85.8	73.9	73.9
60°	16716.1	9197.4	343.4	190.8	133.5	102.5	95.4	76.3	59.6	50.1	47.7
62.5°	16372.7	8355.7	259.9	150.2	100.2	76.3	64.4	54.8	38.2	28.6	28.6
63°	16160.5	8112.4	250.4	143.1	93.0	71.5	59.6	50.1	33.4	26.2	23.8
65°	14732.1	7051.3	205.1	114.5	73.9	50.1	40.5	35.8	23.8	11.9	9.5
67.5°	11698.9	5394.0	162.2	85.8	52.5	35.8	23.8	21.5	7.2	0.0	0.0
70°	7909.8	3483.9	126.4	62.0	35.8	21.5	11.9	9.5	2.4	0.0	0.0
72.5°	4125.4	1786.1	97.8	45.3	21.5	14.3	7.2	2.4	0.0	0.0	0.0
75°	1459.4	608.1	71.5	28.6	14.3	7.2	2.4	0.0	0.0	0.0	0.0
77.5°	441.2	226.5	45.3	21.5	9.5	4.8	0.0	0.0	0.0	0.0	0.0
80°	155.0	83.5	26.2	14.3	7.2	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	76.3	40.5	16.7	11.9	7.2	2.4	0.0	0.0	0.0	0.0	0.0
85°	42.9	26.2	14.3	11.9	7.2	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	31.0	19.1	14.3	11.9	9.5	4.8	2.4	0.0	0.0	0.0	0.0
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)