

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: P456924

Luminaire Tested: **GALN-SA8B-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456924  
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-SA8B-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 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: 31450 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

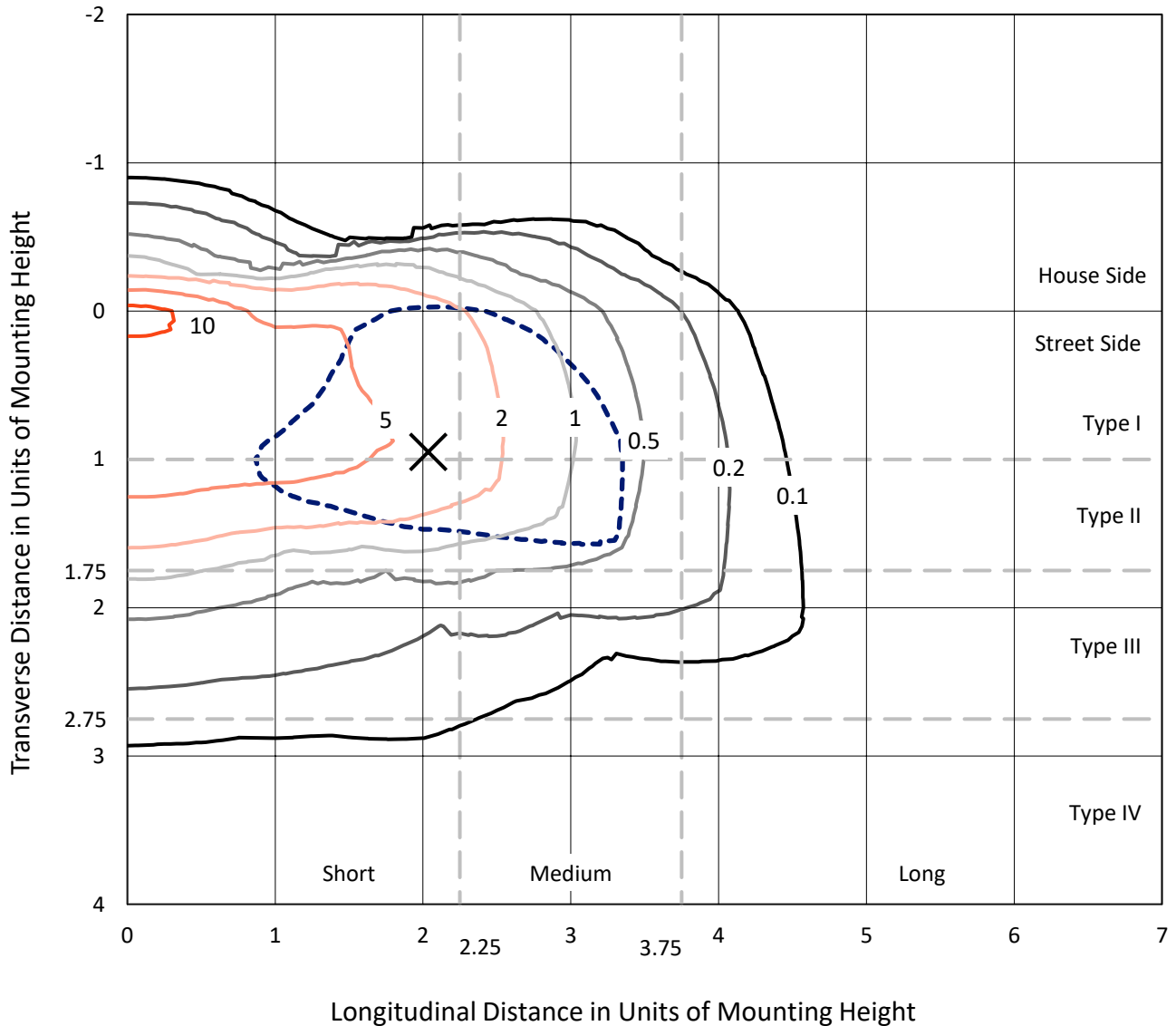
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

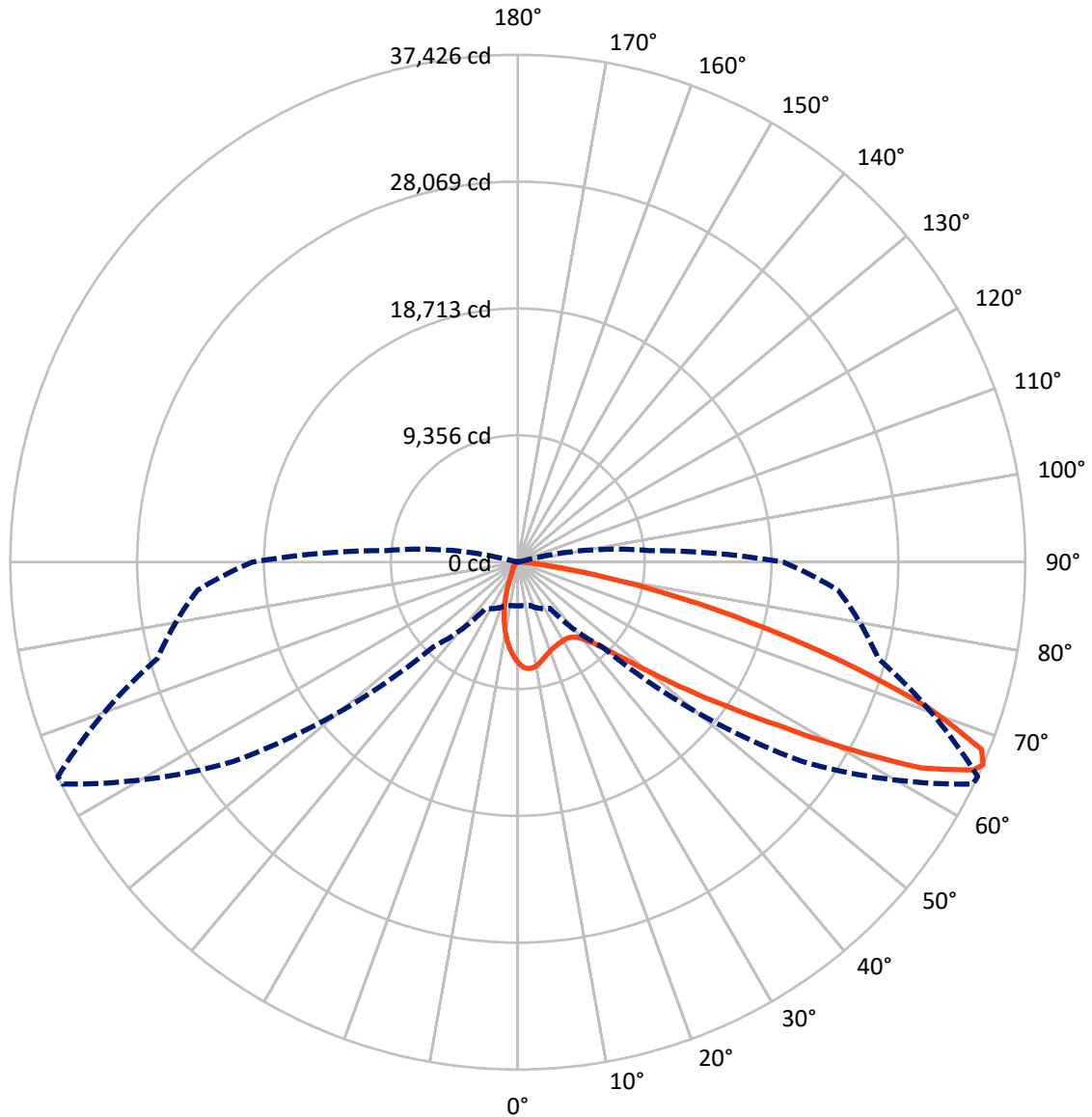
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	3252.4	0.0	3252.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	28197.6	0.0	28197.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	31450.0	0.0	31450.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.9	1.9
10°-20°	1329.0	4.2
20°-30°	1903.8	6.1
30°-40°	2780.6	8.8
40°-50°	4662.6	14.8
50°-60°	7781.2	24.7
60°-70°	8259.5	26.3
70°-80°	3740.7	11.9
80°-90°	382.7	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°	31450.0	100.0
0°-180°	31450.0	100.0

**Coefficient of Utilization**



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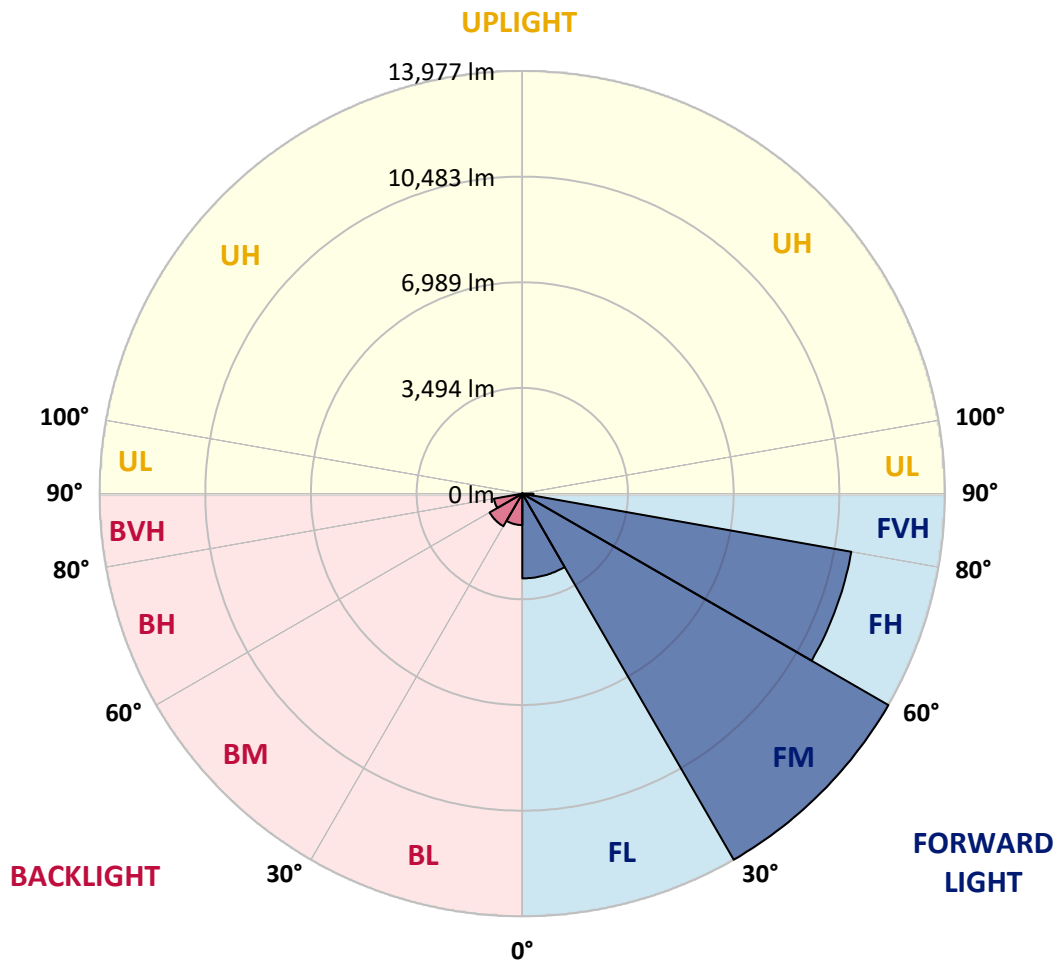
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2802.3	8.9			
FM (30°-60°)	13977.1	44.4			
FH (60°-80°)	11047.7	35.1			G4/12000
FVH (80°-90°)	370.6	1.2			G3/500
BL (0°-30°)	1040.4	3.3	B3/2500		
BM (30°-60°)	1247.3	4.0	B2/2500		
BH (60°-80°)	952.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0
2.5°	7859.4	7867.9	7878.5	7893.4	7904.0	7872.2	7827.6	7776.6	7766.0	7657.6	7525.9
5°	7438.8	7451.6	7545.0	7596.0	7710.7	7814.8	7880.7	7889.2	7884.9	7783.0	7572.7
7.5°	6839.8	6875.9	6967.3	7056.5	7271.0	7468.6	7702.2	7865.8	7876.4	7848.8	7587.5
10°	6353.4	6376.8	6423.5	6599.8	6778.2	7079.9	7407.0	7715.0	7740.5	7850.9	7574.8
12.5°	5973.2	6007.1	6064.5	6200.4	6415.0	6699.6	7071.4	7485.6	7538.7	7810.6	7538.7
15°	5707.6	5724.6	5782.0	5915.8	6124.0	6387.4	6763.4	7245.5	7292.3	7757.5	7532.3
17.5°	5582.3	5601.4	5641.8	5748.0	5920.1	6164.3	6531.8	7052.2	7111.7	7723.5	7555.7
20°	5616.3	5633.3	5635.4	5690.6	5807.5	6013.5	6361.9	6871.7	6948.2	7702.2	7593.9
22.5°	5809.6	5811.7	5786.2	5760.7	5801.1	5949.8	6257.8	6757.0	6835.6	7698.0	7638.5
25°	6098.5	6104.9	6062.4	5973.2	5892.4	5968.9	6234.4	6682.6	6752.7	7687.4	7666.1
27.5°	6497.8	6495.7	6483.0	6334.3	6104.9	6053.9	6253.6	6642.3	6701.8	7657.6	7676.7
30°	7056.5	7039.5	7011.9	6844.1	6493.6	6259.9	6334.3	6616.8	6672.0	7615.1	7649.1
32.5°	7606.6	7670.4	7666.1	7506.8	7069.2	6627.4	6502.1	6650.8	6691.1	7587.5	7608.8
35°	8248.1	8246.0	8409.6	8350.1	7838.2	7096.8	6788.8	6763.4	6795.2	7606.6	7589.7
37.5°	8842.9	8898.1	9153.0	9214.6	8747.3	7759.6	7194.6	7005.5	7016.1	7736.2	7636.4
40°	9584.2	9690.5	10070.7	10276.7	9864.6	8743.1	7793.6	7449.5	7451.6	8054.8	7812.7
42.5°	10540.1	10707.9	11062.7	11406.8	11185.9	9907.1	8692.1	8152.6	8148.3	8615.6	8216.3
45°	11702.0	11818.9	12222.5	12768.4	12628.2	11532.1	10000.6	9242.3	9187.0	9535.4	8932.1
47.5°	12704.7	12864.0	13273.9	13896.3	14533.6	13516.1	11564.0	10739.8	10703.7	10998.9	10159.9
50°	13142.2	13282.4	13713.6	14586.7	16130.9	16120.3	13892.1	12925.6	12864.0	13023.3	12058.9
52.5°	12662.2	12793.9	13229.3	14316.9	16882.9	19293.8	17265.2	15667.9	15593.5	15389.6	14327.5
55°	11018.1	11126.4	11770.0	13019.0	16594.0	21409.5	21912.9	19055.9	18767.0	17974.7	16895.6
57.5°	8772.8	8717.6	9116.9	10567.7	14898.9	22119.0	26683.8	23276.6	22760.5	20209.3	19068.7
60°	6079.4	6249.3	6410.7	7366.6	11202.9	20889.1	29651.3	28582.8	27903.1	22407.9	21150.3
62.5°	4469.3	4581.8	4688.0	5129.9	7043.7	16679.0	30175.9	34033.4	33430.2	24742.3	23136.4
65°	3534.6	3543.1	3585.6	4021.1	4641.3	10846.0	27654.5	37107.1	36952.0	26989.7	23941.5
66°	3220.2	3222.4	3288.2	3755.5	4165.5	8832.3	25634.5	37340.8	37425.7	27529.2	23705.7
67.5°	2814.5	2806.0	2901.6	3375.3	3793.8	6368.3	22019.1	36393.4	36896.8	27943.4	22858.2
70°	2181.5	2170.9	2287.7	2831.5	3494.3	4248.3	14635.5	31248.6	32060.1	27095.9	20224.2
72.5°	1452.9	1461.4	1661.1	2234.6	3334.9	3740.7	8804.7	23771.6	24918.6	22376.0	15910.0
75°	847.5	862.4	1089.7	1661.1	2895.2	3566.5	4983.3	16950.9	17683.7	15451.2	9911.4
77.5°	444.0	450.3	609.6	1096.1	2219.8	3311.6	3320.1	10829.0	11173.1	7508.9	3923.3
80°	235.8	229.4	327.1	660.6	1527.3	2908.0	2693.4	5733.1	5960.4	2230.4	992.0
82.5°	89.2	97.7	174.2	433.3	902.8	2088.1	2319.6	2534.1	2455.5	490.7	416.3
85°	17.0	21.2	74.3	257.0	454.6	873.0	1710.0	1242.6	1151.3	184.8	240.0
87.5°	2.1	4.2	21.2	61.6	65.8	295.3	505.6	344.1	297.4	68.0	99.8
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°	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0	7458.0
2.5°	7462.2	7404.9	7213.7	7024.6	6831.3	6657.1	6538.2	6344.9	6296.0	6225.9	6185.6
5°	7447.3	7313.5	6946.0	6544.6	6170.7	5767.1	5459.1	5161.7	5002.4	4921.7	4892.0
7.5°	7404.9	7192.4	6618.9	5990.2	5391.1	4787.9	4263.2	3863.9	3606.8	3430.5	3311.6
10°	7319.9	7026.7	6238.7	5374.1	4469.3	3672.7	3007.8	2502.3	2111.4	1988.2	1992.5
12.5°	7232.8	6841.9	5813.8	4690.2	3568.6	2563.9	1858.6	1459.3	1272.4	1210.8	1198.0
15°	7152.1	6665.6	5397.5	4027.4	2657.3	1661.1	1198.0	1057.8	1006.9	996.2	994.1
17.5°	7109.6	6502.1	4953.6	3269.1	1854.4	1127.9	960.1	921.9	907.0	896.4	892.2
20°	7073.5	6359.8	4528.7	2559.6	1268.1	924.0	860.3	824.2	798.7	788.1	781.7
22.5°	7048.0	6213.2	4089.0	1981.8	970.7	819.9	762.6	715.8	679.7	667.0	658.5
25°	7009.8	6051.8	3645.1	1448.7	817.8	728.6	662.7	607.5	560.8	537.4	533.2
27.5°	6954.5	5869.1	3158.6	1072.7	730.7	647.9	567.2	499.2	452.4	427.0	429.1
30°	6865.3	5677.9	2672.2	851.8	660.6	565.0	477.9	412.1	367.5	348.4	346.2
32.5°	6759.1	5446.4	2226.1	730.7	596.9	490.7	399.3	342.0	308.0	293.1	291.0
35°	6659.3	5212.7	1771.6	656.4	531.0	422.7	335.6	286.8	261.3	248.5	250.7
37.5°	6604.0	5004.5	1380.7	596.9	477.9	363.2	288.9	246.4	223.0	212.4	210.3
40°	6640.2	4834.6	1098.2	543.8	418.5	312.3	248.5	212.4	189.1	174.2	174.2
42.5°	6810.1	4760.3	885.8	492.8	363.2	269.8	216.7	182.7	157.2	142.3	144.4
45°	7328.4	4838.9	741.3	446.1	312.3	233.7	186.9	150.8	127.5	116.8	114.7
47.5°	8188.7	5134.1	641.5	397.2	267.6	199.7	157.2	125.3	102.0	93.5	91.3
50°	9692.6	5743.8	567.2	348.4	227.3	169.9	129.6	99.8	80.7	72.2	72.2
52.5°	11761.5	7073.5	514.0	293.1	191.2	144.4	106.2	80.7	63.7	57.4	55.2
55°	13923.9	8475.4	486.4	246.4	159.3	119.0	85.0	63.7	48.9	42.5	40.4
57.5°	16003.5	9575.8	454.6	199.7	127.5	91.3	65.8	48.9	34.0	29.7	27.6
60°	17998.1	10465.8	386.6	159.3	99.8	65.8	48.9	34.0	23.4	19.1	19.1
62.5°	19782.4	10984.1	303.8	127.5	76.5	46.7	31.9	25.5	17.0	12.7	12.7
65°	19990.5	10310.7	229.4	97.7	55.2	29.7	19.1	19.1	12.7	8.5	8.5
66°	19572.1	9739.3	201.8	89.2	48.9	25.5	17.0	14.9	10.6	6.4	6.4
67.5°	18637.5	8764.3	174.2	76.5	40.4	19.1	12.7	12.7	8.5	4.2	4.2
70°	16103.3	7158.4	138.1	57.4	29.7	14.9	8.5	8.5	6.4	4.2	4.2
72.5°	12273.4	5344.4	112.6	42.5	21.2	10.6	6.4	6.4	6.4	4.2	4.2
75°	7402.7	2878.2	87.1	31.9	19.1	8.5	4.2	6.4	8.5	6.4	4.2
77.5°	2727.4	979.2	68.0	25.5	14.9	8.5	4.2	4.2	8.5	6.4	6.4
80°	669.1	254.9	48.9	21.2	14.9	8.5	4.2	4.2	8.5	8.5	8.5
82.5°	310.1	108.3	34.0	19.1	14.9	8.5	4.2	4.2	6.4	8.5	8.5
85°	178.4	51.0	27.6	21.2	14.9	8.5	4.2	4.2	6.4	8.5	8.5
87.5°	72.2	25.5	25.5	21.2	17.0	10.6	4.2	4.2	4.2	6.4	6.4
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)