

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: P647055

Luminaire Tested: **GALN-SA7C-835-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-835-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31717 lumens  
Efficiency: N/A  
Efficacy: 84.1 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

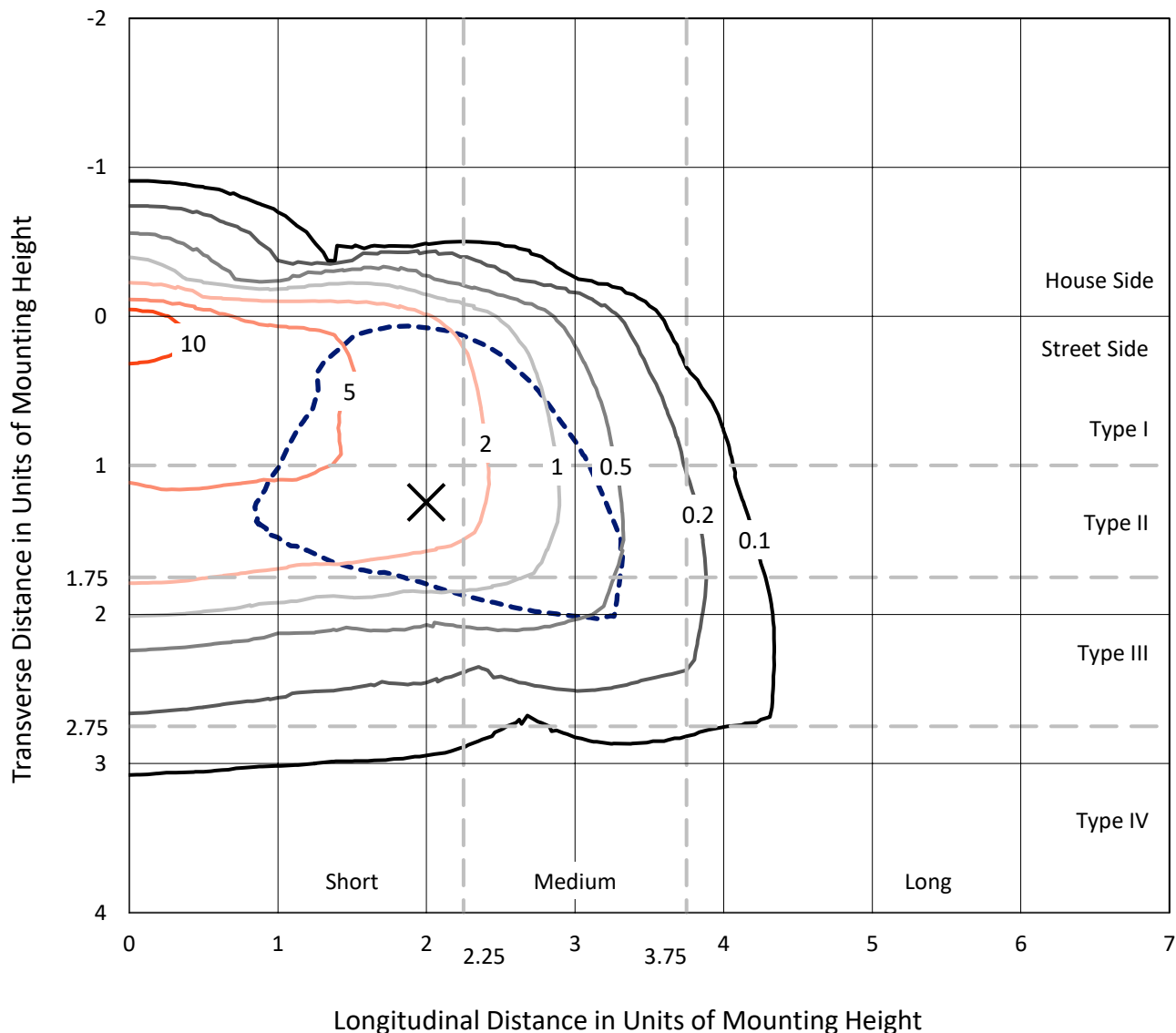
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

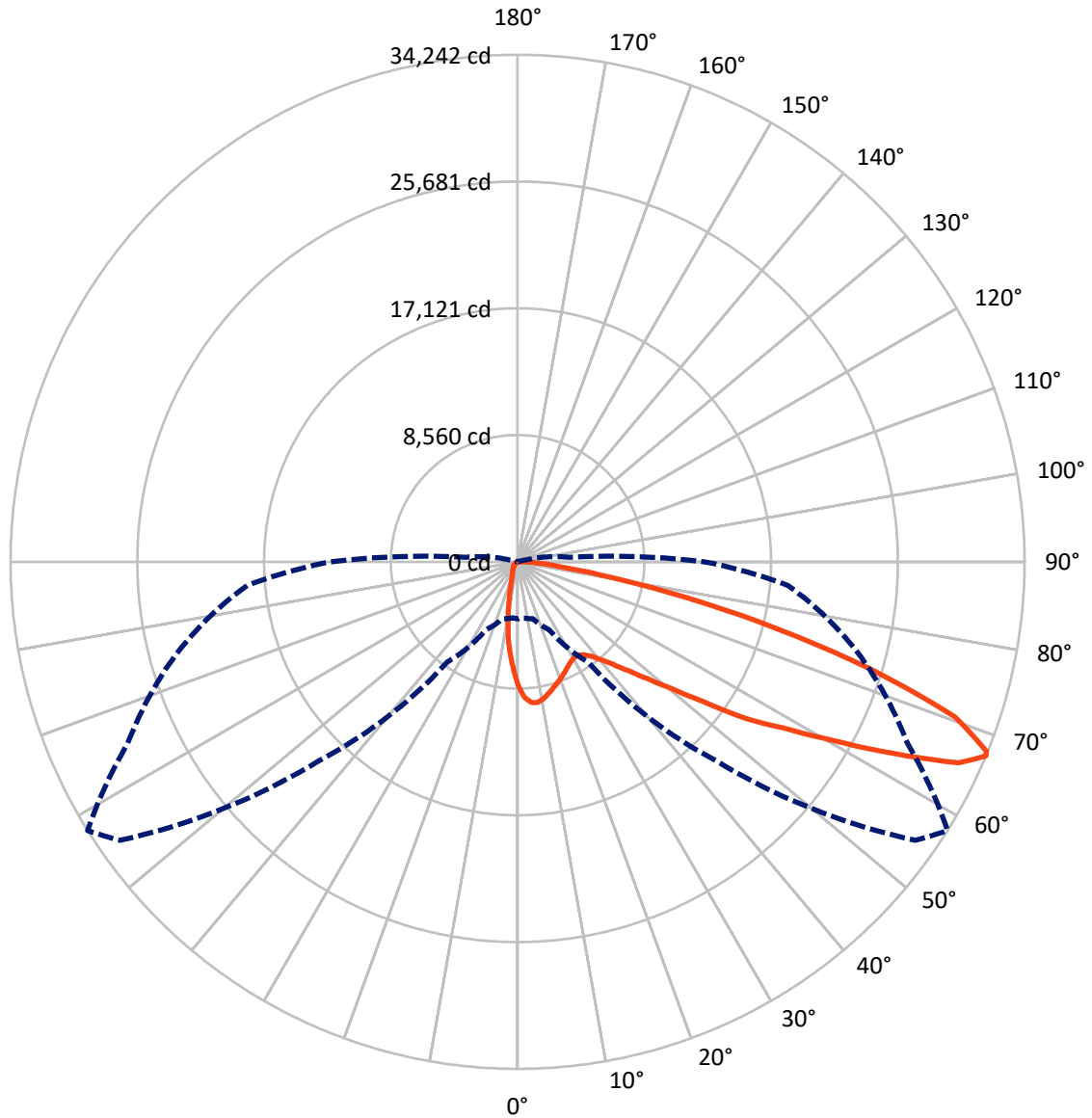
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2288.9	0.0	2288.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	29428.1	0.0	29428.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	31717.0	0.0	31717.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	682.3	2.2
10°-20°	1473.6	4.6
20°-30°	1996.8	6.3
30°-40°	2769.4	8.7
40°-50°	4416.9	13.9
50°-60°	7635.0	24.1
60°-70°	8721.5	27.5
70°-80°	3636.1	11.5
80°-90°	385.5	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°	31717.0	100.0
0°-180°	31717.0	100.0

**Coefficient of Utilization**



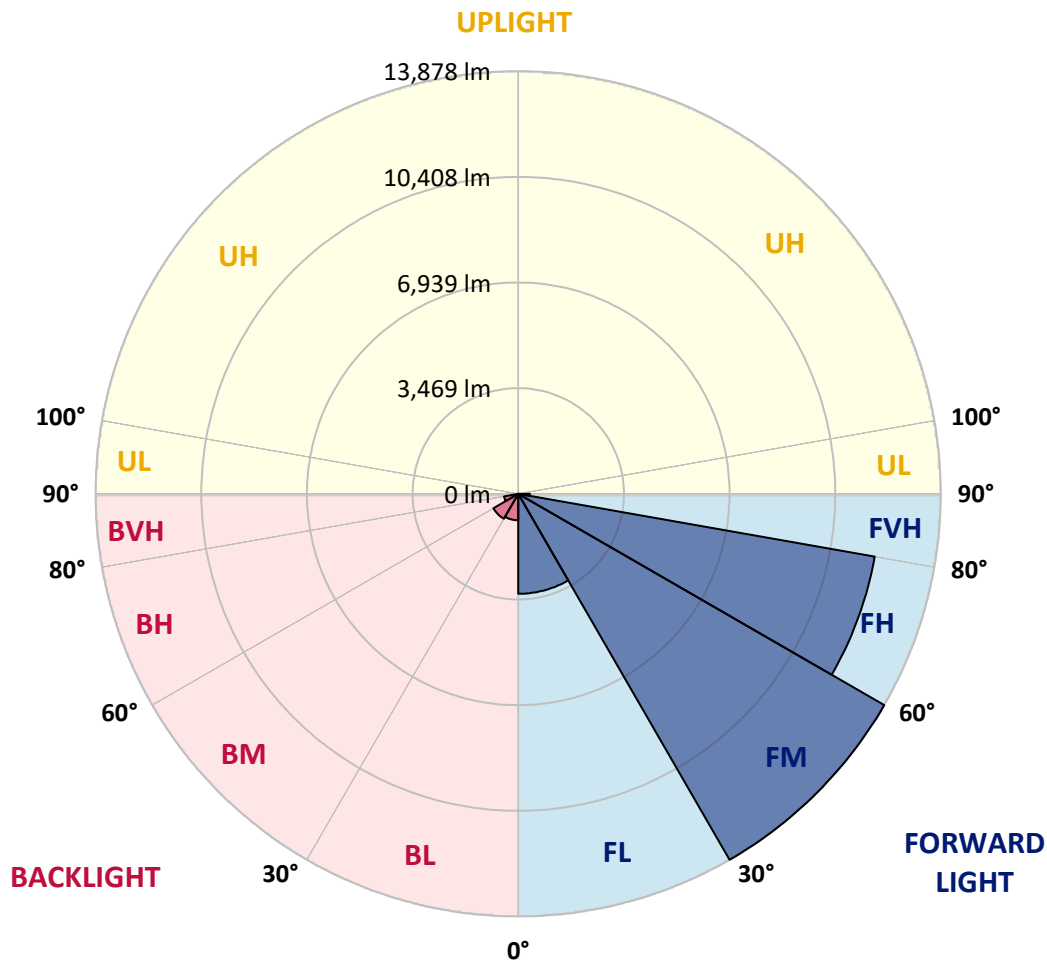
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3283.5	10.4			
FM (30°-60°)	13877.5	43.8			
FH (60°-80°)	11884.4	37.5			G4/12000
FVH (80°-90°)	382.7	1.2			G3/500
BL (0°-30°)	869.1	2.7	B2/1000		
BM (30°-60°)	943.8	3.0	B1/1000		
BH (60°-80°)	473.2	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9
2.5°	9758.0	9772.8	9717.7	9673.2	9558.7	9435.9	9272.6	9185.7	9037.4	8780.9	8496.9
5°	9986.9	10006.0	9997.5	9986.9	9942.4	9823.7	9615.9	9539.7	9321.4	8903.8	8390.9
7.5°	9478.2	9548.1	9556.6	9639.3	9717.7	9728.3	9649.8	9592.7	9391.3	8901.7	8202.3
10°	8804.2	8850.9	8918.7	9014.1	9202.7	9359.5	9435.9	9427.3	9310.7	8836.0	7981.9
12.5°	8123.9	8149.3	8253.1	8416.4	8647.4	8914.5	9117.9	9158.2	9160.3	8757.6	7797.5
15°	7538.9	7528.3	7608.9	7797.5	8121.7	8456.6	8821.2	8884.8	8986.5	8681.3	7625.8
17.5°	7038.7	7093.8	7106.5	7314.2	7613.1	8047.6	8511.8	8624.0	8827.5	8615.6	7483.8
20°	6729.3	6758.9	6786.5	6903.1	7172.2	7630.0	8221.3	8376.1	8679.2	8556.2	7324.8
22.5°	6638.1	6657.2	6633.9	6669.9	6860.6	7267.6	7905.6	8111.2	8537.2	8501.1	7195.5
25°	6708.0	6727.1	6672.0	6629.7	6695.4	6973.0	7600.3	7850.4	8422.7	8490.5	7098.1
27.5°	6877.6	6913.7	6837.4	6761.0	6722.9	6814.1	7360.9	7651.2	8344.3	8541.4	7053.6
30°	7142.6	7163.7	7106.5	7013.3	6926.4	6835.3	7235.9	7513.4	8323.1	8660.1	7049.3
32.5°	7430.8	7475.3	7443.5	7382.0	7269.8	7053.6	7271.9	7517.7	8374.0	8831.8	7102.3
35°	7786.9	7837.8	7867.4	7854.7	7710.6	7441.4	7500.7	7708.5	8509.6	9147.6	7246.4
37.5°	8136.6	8181.1	8348.5	8405.7	8278.6	8024.3	7945.8	8083.6	8808.4	9560.9	7507.1
40°	8537.2	8596.5	8831.8	9050.1	8988.6	8721.5	8577.5	8691.9	9266.3	10184.0	8000.9
42.5°	8920.8	9026.7	9385.0	9770.7	9827.9	9529.1	9433.7	9471.9	9944.5	11080.5	8689.7
45°	9465.5	9565.1	10027.2	10550.6	10819.8	10586.7	10489.2	10482.8	10874.9	12341.6	9806.7
47.5°	10251.8	10340.8	10885.5	11402.7	11881.6	11913.4	11729.1	11792.7	12044.9	13816.7	11175.9
50°	11216.2	11426.0	11784.2	12322.5	12962.6	13479.7	13537.0	13452.2	13668.4	15525.0	12820.6
52.5°	12617.1	12697.7	13026.1	13469.2	14219.4	15096.9	15777.2	15660.6	15592.8	17152.8	14482.2
55°	13662.0	13770.1	14280.9	14889.2	15989.2	17146.4	18621.5	18661.8	17805.6	18716.9	16107.9
57.5°	13346.2	13511.5	14285.1	15508.0	17926.4	20041.6	21139.4	21167.0	19853.0	20236.6	17943.3
60°	11724.8	11803.3	12911.7	14543.7	18091.7	23178.4	24710.7	24488.2	21936.4	21936.4	19564.7
62.5°	8314.6	8437.5	9336.2	11737.6	16338.9	24267.8	28987.8	28527.9	24806.1	23562.0	20531.2
65°	5313.4	5194.8	5790.4	7409.6	12172.0	22659.1	32711.7	32739.3	27506.3	24212.6	20003.5
67°	3848.9	3802.3	3974.0	5065.5	8253.1	19047.6	32790.1	34241.9	29057.8	23801.5	18316.3
67.5°	3520.4	3556.5	3681.5	4569.5	7498.6	17332.9	32434.1	34152.9	29407.4	23553.5	17705.9
70°	2668.4	2606.9	2742.6	3232.1	4495.4	10934.3	27900.5	31323.4	28973.0	21092.8	14147.4
72.5°	1962.6	1956.2	2144.9	2642.9	3461.1	5824.3	20944.5	25115.6	23670.1	16061.2	8908.0
75°	1324.7	1384.0	1684.9	2208.5	3136.8	3776.9	14278.8	18221.0	16432.1	9120.0	3641.3
77.5°	754.5	758.7	1085.2	1774.0	2816.8	3039.3	8460.9	11608.3	8698.3	3033.0	1080.9
80°	326.4	358.2	538.3	1288.7	2335.6	2691.7	4851.5	6379.6	3518.3	642.2	349.7
82.5°	120.8	142.0	237.4	792.7	1704.0	2217.0	2931.2	3045.6	1193.3	226.8	218.3
85°	0.0	4.2	86.9	370.9	888.1	989.8	1958.4	1805.8	527.7	108.1	142.0
87.5°	0.0	0.0	0.0	38.1	116.6	368.8	608.3	678.2	127.2	38.1	33.9
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°	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9	8407.9
2.5°	8344.3	8206.5	7861.1	7515.6	7259.1	7045.0	6722.9	6547.0	6453.7	6316.0	6324.4
5°	8134.5	7854.7	7246.4	6617.0	6108.3	5612.3	5018.9	4779.4	4578.0	4463.6	4387.3
7.5°	7822.9	7409.6	6508.8	5669.5	4887.5	4020.6	3370.0	2935.5	2642.9	2534.9	2431.0
10°	7481.6	6932.8	5760.7	4597.1	3511.9	2617.5	2066.5	1668.0	1526.0	1394.6	1407.3
12.5°	7165.9	6498.3	5074.0	3628.5	2460.7	1663.8	1297.1	1133.9	1087.3	1072.5	1072.5
15°	6907.3	6082.8	4336.4	2727.7	1687.1	1195.4	1038.6	994.0	977.1	972.8	972.8
17.5°	6631.8	5688.7	3670.9	2015.6	1227.2	1000.4	947.4	917.8	911.3	907.1	907.1
20°	6385.9	5292.3	3039.3	1500.5	991.9	900.8	866.9	847.8	841.4	837.2	839.3
22.5°	6152.8	4940.4	2445.9	1133.9	873.2	820.2	786.3	767.3	754.5	743.9	746.0
25°	5945.1	4601.3	1966.8	928.3	786.3	739.7	705.8	678.2	650.7	638.0	635.9
27.5°	5798.8	4304.6	1532.3	794.8	707.9	657.0	614.7	580.8	544.7	525.6	521.4
30°	5678.0	4003.6	1212.3	701.6	629.5	580.8	527.7	479.0	440.8	421.8	413.3
32.5°	5599.6	3717.5	955.9	625.2	563.8	504.4	445.1	396.4	353.9	334.9	330.7
35°	5586.9	3478.0	782.1	561.6	504.4	440.8	379.4	326.4	290.3	271.3	267.1
37.5°	5678.0	3293.6	654.9	510.8	455.7	385.7	317.9	269.2	237.4	222.5	220.4
40°	5921.8	3177.1	568.0	468.4	411.2	334.9	271.3	228.9	197.1	182.3	182.3
42.5°	6385.9	3181.3	510.8	428.1	366.7	286.1	231.0	190.7	163.2	150.5	146.3
45°	7110.7	3325.4	462.0	387.9	324.2	248.0	197.1	156.8	129.3	118.7	118.7
47.5°	8081.5	3611.6	419.7	347.6	286.1	212.0	167.4	127.2	103.8	93.3	93.3
50°	9351.1	4071.4	383.6	313.7	254.3	182.3	135.6	103.8	80.6	72.0	69.9
52.5°	10677.8	4639.5	341.2	284.0	218.3	154.7	110.2	80.6	61.5	55.1	53.0
55°	12142.4	5194.8	301.0	254.3	178.1	129.3	86.9	63.6	44.5	38.1	38.1
57.5°	13619.7	5739.5	252.2	212.0	139.9	95.4	67.8	46.7	29.7	23.3	23.3
60°	14870.1	5915.4	214.1	171.7	105.9	67.8	48.8	29.7	17.0	10.6	10.6
62.5°	15041.7	5322.0	180.2	131.4	76.3	46.7	25.4	17.0	6.3	4.2	4.2
65°	14109.2	4323.7	150.5	99.6	50.9	23.3	10.6	6.3	2.1	0.0	0.0
67°	12642.6	3505.6	122.9	74.2	36.0	14.8	6.3	2.1	0.0	0.0	0.0
67.5°	12267.4	3342.4	118.7	69.9	31.8	12.7	4.2	2.1	0.0	0.0	0.0
70°	9626.6	2503.1	84.8	42.4	19.1	8.5	0.0	0.0	0.0	0.0	0.0
72.5°	5983.2	1415.8	61.5	25.4	12.7	4.2	0.0	0.0	0.0	0.0	0.0
75°	2261.5	496.0	42.4	17.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	703.7	188.6	25.4	12.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	237.4	72.0	17.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	146.3	29.7	10.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	91.1	12.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	4.2	2.1	0.0	0.0	0.0	0.0	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)