

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: P459261

Luminaire Tested: **GALN-SA7B-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28906 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

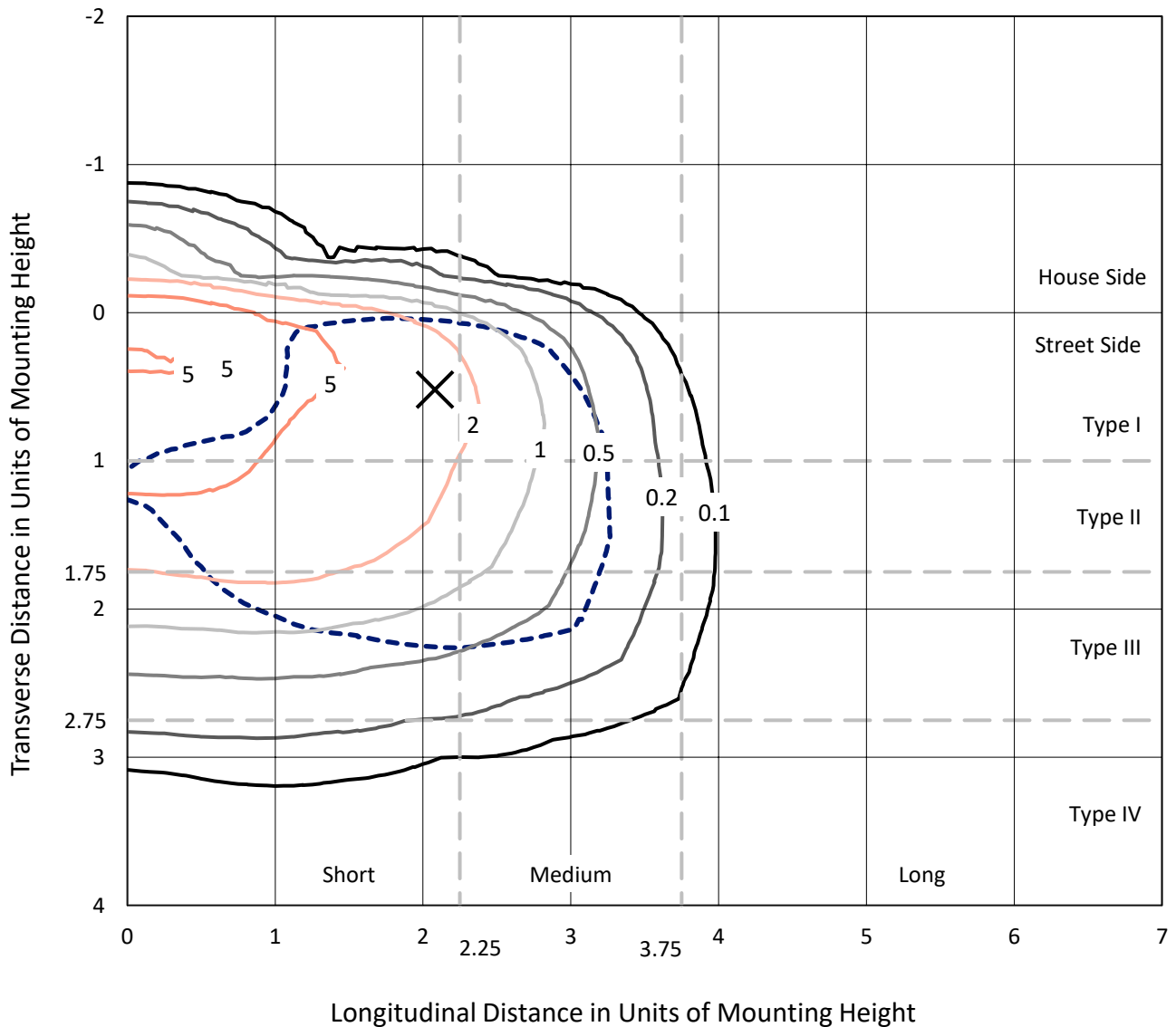
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

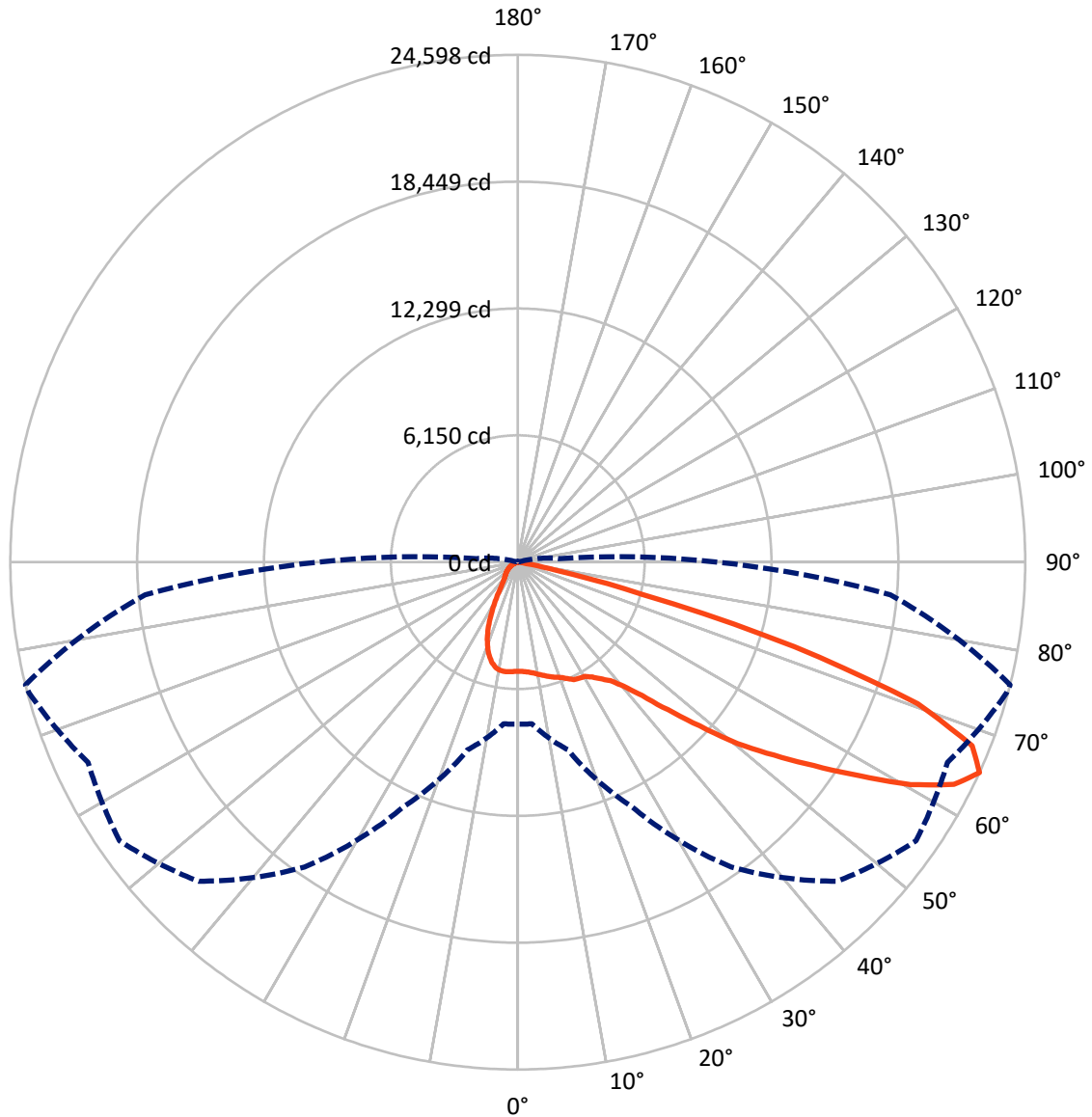
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2087.6	0.0	2087.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	26818.4	0.0	26818.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	28906.0	0.0	28906.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.6	1.5
10°-20°	969.9	3.4
20°-30°	1562.9	5.4
30°-40°	2717.5	9.4
40°-50°	4490.4	15.5
50°-60°	6936.8	24.0
60°-70°	8470.8	29.3
70°-80°	3214.9	11.1
80°-90°	107.3	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°	28906.0	100.0
0°-180°	28906.0	100.0



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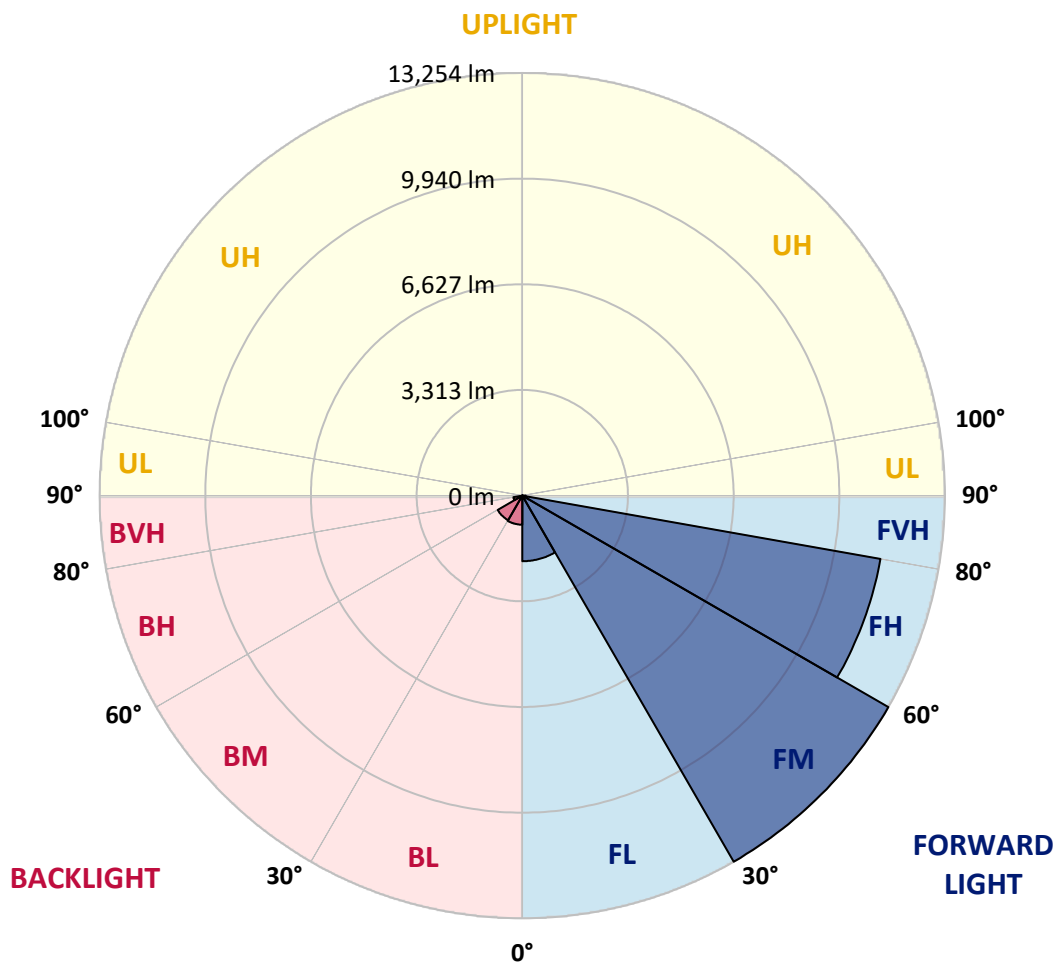
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2056.3	7.1			
FM	(30°-60°)	13253.8	45.9			
FH	(60°-80°)	11402.4	39.4			G4/12000
FVH	(80°-90°)	105.8	0.4			G2/225
BL	(0°-30°)	912.0	3.2	B2/1000		
BM	(30°-60°)	890.8	3.1	B1/1000		
BH	(60°-80°)	283.3	1.0	B1/500		G1/500
BVH	(80°-90°)	1.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8
2.5°	5053.1	5055.2	5067.4	5098.0	5145.0	5183.7	5216.4	5269.5	5306.2	5310.3	5322.5
5°	4704.1	4679.7	4704.1	4783.7	4855.2	4963.3	5096.0	5228.6	5347.0	5355.2	5412.3
7.5°	4312.3	4332.7	4371.5	4453.1	4587.8	4753.1	4945.0	5181.7	5406.2	5426.6	5538.9
10°	3914.3	3959.2	4022.5	4147.0	4334.8	4549.0	4810.3	5149.1	5500.1	5528.6	5722.5
12.5°	3547.0	3567.4	3644.9	3812.3	4045.0	4347.0	4708.2	5130.7	5604.2	5638.9	5918.5
15°	3265.4	3291.9	3359.2	3510.3	3769.4	4157.2	4624.6	5124.6	5706.2	5755.2	6114.4
17.5°	3212.3	3228.6	3257.2	3359.2	3585.8	4006.2	4549.0	5122.5	5804.2	5863.3	6296.0
20°	3430.7	3416.4	3387.8	3377.6	3502.1	3889.9	4493.9	5138.8	5898.0	5965.4	6487.8
22.5°	3977.6	3996.0	3828.6	3630.7	3589.8	3871.5	4485.8	5216.4	6047.0	6126.6	6702.1
25°	5138.8	4998.0	4736.8	4263.3	3906.2	3983.7	4577.6	5400.1	6220.5	6308.3	6896.0
27.5°	6422.5	6379.7	5973.6	5194.0	4528.6	4220.5	4740.9	5540.9	6277.6	6367.4	7006.2
30°	7683.8	7734.8	7269.5	6408.3	5432.7	4659.2	4893.9	5594.0	6328.7	6422.5	7147.0
32.5°	8853.2	8914.4	8506.2	7653.2	6498.1	5418.4	5157.2	5800.1	6542.9	6638.9	7381.7
35°	9773.6	9781.8	9473.6	8794.0	7661.3	6340.9	5726.6	6161.3	6832.7	6945.0	7630.7
37.5°	10618.5	10606.3	10245.0	9659.3	8630.7	7257.2	6442.9	6577.6	7163.4	7279.7	7989.9
40°	11245.1	11253.2	11136.9	10585.9	9534.8	8104.2	7010.3	6967.4	7718.5	7900.1	8512.4
42.5°	11663.4	11738.9	11796.1	11516.5	10671.6	9147.1	7881.7	7802.2	8681.8	8832.8	9251.2
45°	12002.2	12136.9	12422.6	12408.3	11763.4	10426.7	9077.7	8914.4	10047.1	10208.3	10192.0
47.5°	12249.2	12385.9	12859.4	13145.1	12790.0	11667.5	10581.8	10441.0	11677.7	11853.2	11230.8
50°	12375.7	12539.0	13143.0	13696.1	13592.0	12863.4	12296.1	12304.3	13647.1	13816.5	12434.9
52.5°	12079.8	12292.0	13294.1	14290.0	14492.0	14008.4	13902.2	14171.6	15400.2	15545.1	13522.6
55°	11134.9	11402.2	13087.9	14796.1	15534.9	15359.4	15726.8	16137.0	17316.6	17410.5	14639.0
57.5°	10536.9	10820.6	12479.8	15226.7	16788.0	17057.4	17639.0	17939.0	19294.2	19532.9	15920.6
60°	10032.8	10255.2	11979.8	15318.6	18061.5	19135.0	19700.3	20010.5	21735.0	21890.1	17330.9
62.5°	9194.0	9449.1	11134.9	14677.8	18702.3	20798.3	21969.7	21830.9	23622.8	23730.9	18196.2
65°	7845.0	7867.5	9420.5	13067.5	18041.1	21877.9	23563.6	22982.0	24524.8	24598.3	18128.8
67.5°	5855.2	6071.5	7247.0	10271.6	15239.0	20955.4	24079.9	23012.6	23955.4	23751.4	16690.0
70°	3771.5	3936.8	4912.3	7122.5	10987.9	17488.0	22367.7	21435.0	21024.8	20571.7	13661.4
72.5°	1740.8	1953.1	2918.4	4069.4	6516.4	12457.3	18157.4	17414.5	15132.9	14014.5	8683.8
75°	759.2	812.3	1440.8	2147.0	3055.1	6587.8	11971.6	10810.4	6834.8	6242.9	3475.6
77.5°	463.3	498.0	755.1	1151.0	1200.0	2510.2	6449.1	4716.4	2112.3	1863.3	942.9
80°	314.3	353.1	549.0	602.0	410.2	700.0	2420.4	1259.2	426.5	408.2	202.0
82.5°	153.1	193.9	406.1	336.7	177.6	224.5	704.1	269.4	124.5	116.3	71.4
85°	22.4	38.8	228.6	220.4	79.6	53.1	124.5	67.3	42.9	40.8	32.7
87.5°	0.0	0.0	77.6	34.7	8.2	8.2	14.3	14.3	16.3	14.3	16.3
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°	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8
2.5°	5328.6	5338.9	5300.1	5245.0	5185.8	5126.6	5042.9	4967.4	4922.5	4949.0	4883.7
5°	5424.6	5416.4	5314.4	5147.0	4924.6	4657.2	4391.9	4165.4	4091.9	3981.7	3969.4
7.5°	5557.2	5534.8	5318.4	4934.8	4432.7	3930.7	3440.9	3116.4	2930.7	2773.5	2777.6
10°	5742.9	5677.6	5271.5	4561.3	3734.7	2977.6	2353.1	1924.5	1738.8	1679.6	1632.7
12.5°	5934.8	5808.2	5140.9	4057.2	2908.2	2034.7	1430.6	1169.4	1055.1	1018.4	1014.3
15°	6106.2	5906.2	4912.3	3451.1	2114.3	1300.0	975.5	889.8	875.5	877.6	875.5
17.5°	6275.6	5983.8	4596.0	2808.2	1436.8	932.7	838.8	818.4	824.5	832.7	830.6
20°	6416.4	6000.1	4191.9	2142.9	1016.3	818.4	787.8	783.7	789.8	795.9	795.9
22.5°	6569.5	6012.3	3712.3	1483.7	830.6	761.2	744.9	744.9	753.1	761.2	763.3
25°	6683.8	5945.0	3138.8	1065.3	732.7	706.1	698.0	700.0	708.2	712.3	710.2
27.5°	6702.1	5755.2	2530.6	816.3	665.3	638.8	630.6	638.8	628.6	634.7	630.6
30°	6718.5	5514.4	1914.3	687.8	604.1	563.3	551.0	538.8	530.6	520.4	518.4
32.5°	6769.5	5230.7	1398.0	618.4	546.9	502.0	473.5	438.8	412.3	404.1	402.0
35°	6791.9	4889.9	1026.5	563.3	495.9	446.9	395.9	346.9	308.2	293.9	304.1
37.5°	6877.6	4559.2	795.9	522.5	451.0	389.8	324.5	263.3	226.5	218.4	222.5
40°	7053.2	4200.1	667.4	487.8	412.3	336.7	257.1	198.0	173.5	165.3	163.3
42.5°	7334.8	3842.9	593.9	455.1	373.5	283.7	202.0	155.1	134.7	128.6	128.6
45°	7677.7	3500.0	542.9	420.4	332.7	228.6	159.2	124.5	112.2	108.2	108.2
47.5°	8128.7	3200.0	500.0	385.7	287.8	181.6	128.6	108.2	100.0	102.0	104.1
50°	8585.8	2977.6	453.1	346.9	236.7	149.0	110.2	95.9	93.9	95.9	95.9
52.5°	8930.7	2847.0	389.8	293.9	185.7	124.5	98.0	89.8	87.8	83.7	83.7
55°	9396.1	2818.4	310.2	238.8	146.9	104.1	87.8	81.6	75.5	71.4	69.4
57.5°	9994.0	2851.1	238.8	185.7	114.3	85.7	77.6	67.3	59.2	51.0	51.0
60°	10365.5	2777.6	185.7	142.9	83.7	69.4	59.2	49.0	38.8	32.7	30.6
62.5°	10247.1	2467.4	146.9	106.1	59.2	51.0	38.8	32.7	22.4	16.3	14.3
65°	9636.9	1991.9	118.4	73.5	42.9	30.6	20.4	20.4	10.2	2.0	0.0
67.5°	8434.8	1475.5	93.9	49.0	24.5	14.3	10.2	6.1	0.0	0.0	0.0
70°	6865.4	1065.3	73.5	30.6	14.3	10.2	4.1	2.0	0.0	0.0	0.0
72.5°	4359.2	610.2	57.1	18.4	10.2	4.1	0.0	0.0	0.0	0.0	0.0
75°	1685.7	238.8	38.8	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	477.6	112.2	22.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	124.5	49.0	12.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.2	20.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.7	8.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	2.0	0.0	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)