

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: P647440

Luminaire Tested: **GALN-SA5D-835-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647440  
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-SA5D-835-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA 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: 25092.8 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

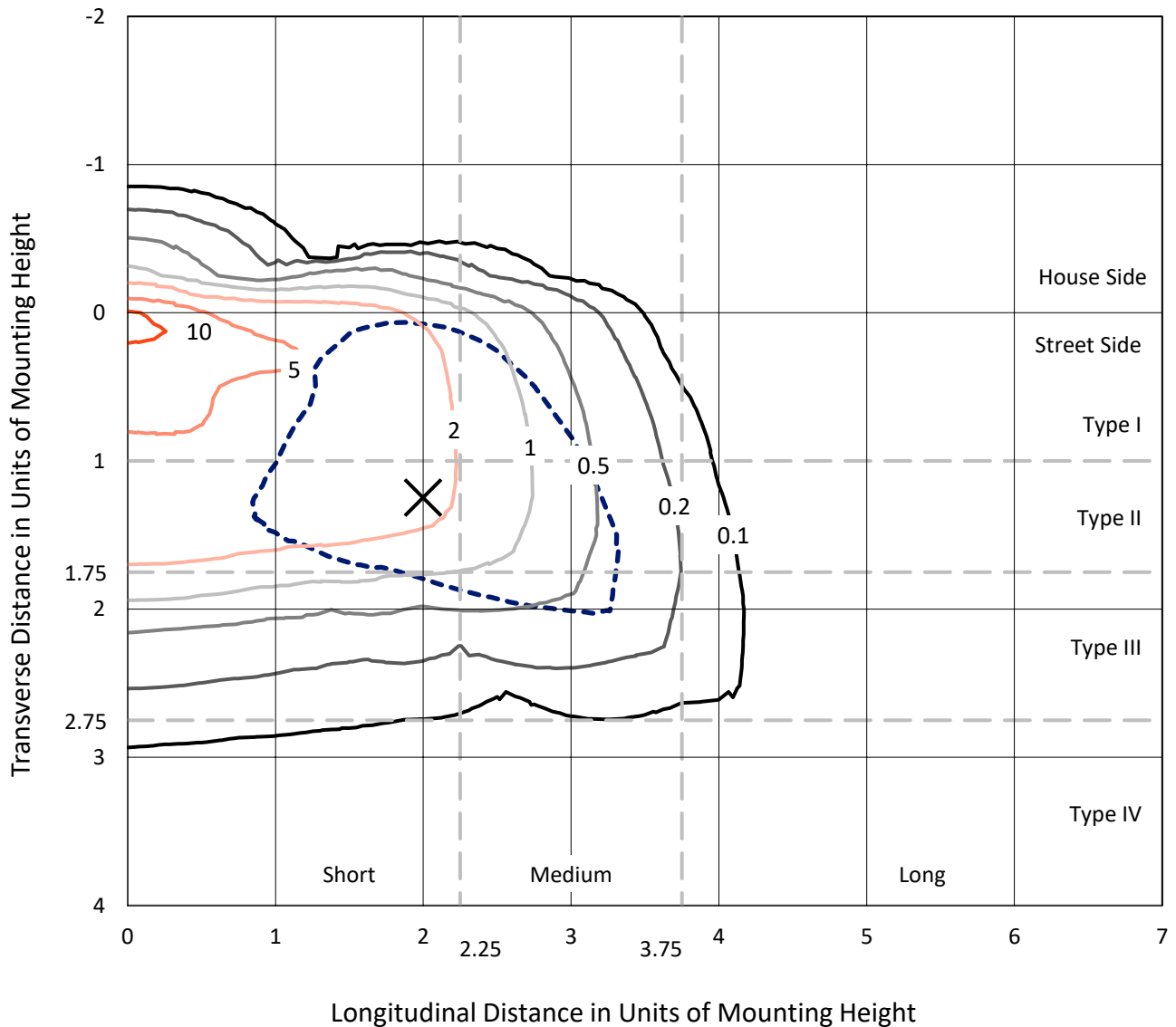
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

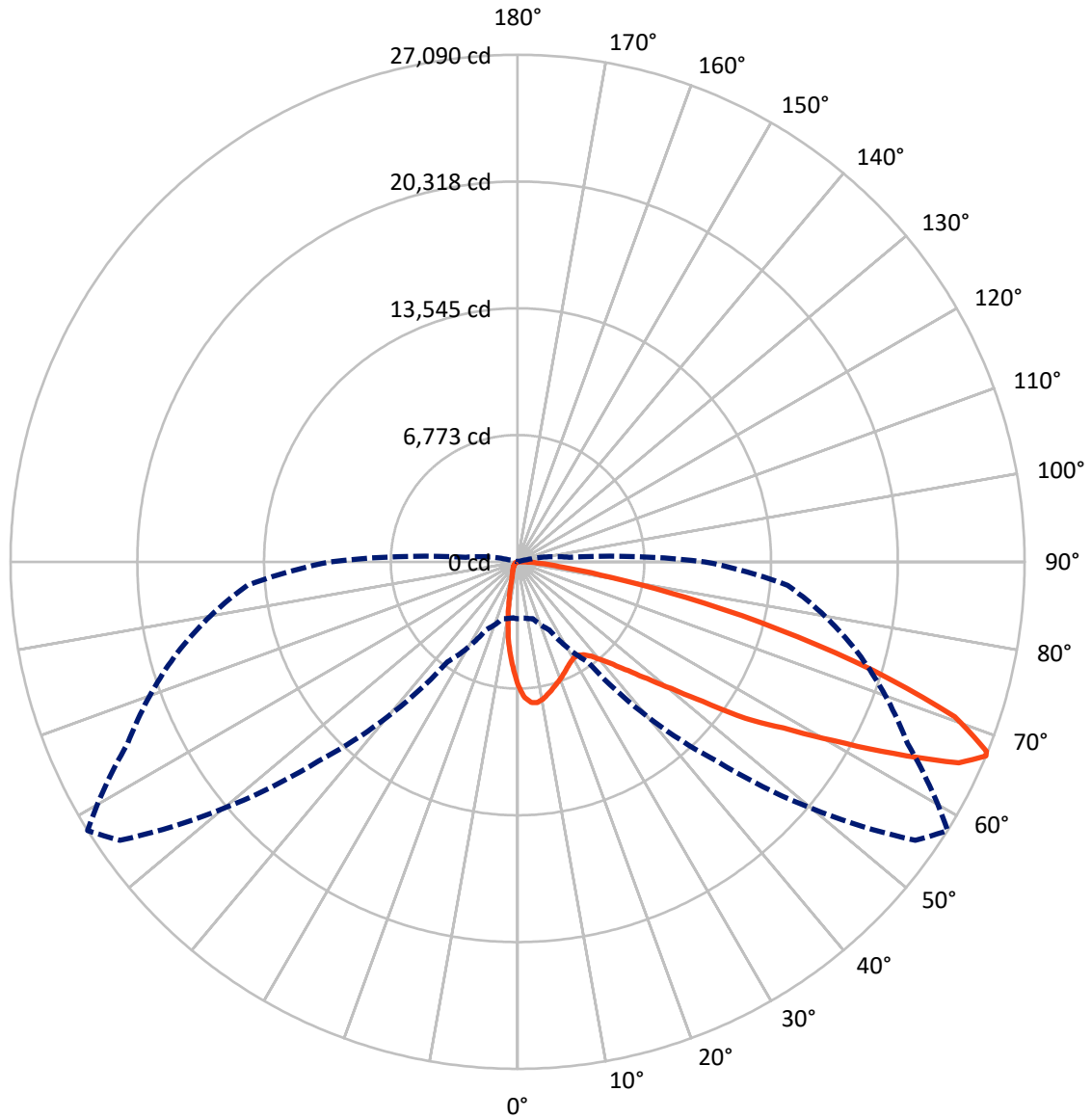
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	1810.8	0.0	1810.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	23282.0	0.0	23282.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	25092.8	0.0	25092.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.8	2.2
10°-20°	1165.8	4.6
20°-30°	1579.7	6.3
30°-40°	2191.0	8.7
40°-50°	3494.4	13.9
50°-60°	6040.4	24.1
60°-70°	6900.0	27.5
70°-80°	2876.7	11.5
80°-90°	305.0	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°	25092.8	100.0
0°-180°	25092.8	100.0



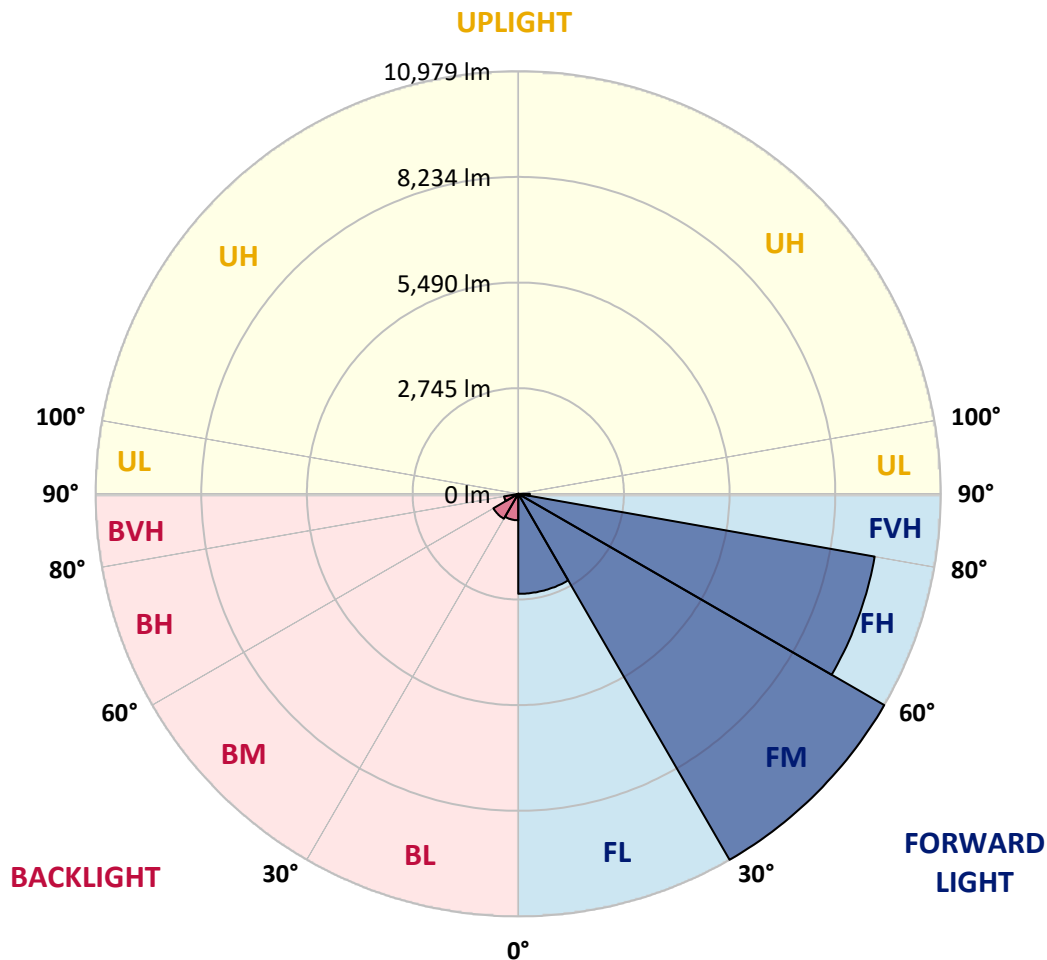
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2597.7	10.4			
FM (30°-60°)	10979.2	43.8			
FH (60°-80°)	9402.3	37.5			G4/12000
FVH (80°-90°)	302.8	1.2			G3/500
BL (0°-30°)	687.6	2.7	B2/1000		
BM (30°-60°)	746.7	3.0	B1/1000		
BH (60°-80°)	374.4	1.5	B1/500		G1/500
BVH (80°-90°)	2.2	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°	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9
2.5°	7720.0	7731.7	7688.1	7652.9	7562.4	7465.1	7336.0	7267.3	7149.9	6947.0	6722.3
5°	7901.1	7916.2	7909.5	7901.1	7865.9	7772.0	7607.6	7547.3	7374.6	7044.3	6638.4
7.5°	7498.6	7554.0	7560.7	7626.1	7688.1	7696.5	7634.5	7589.2	7429.9	7042.5	6489.2
10°	6965.4	7002.3	7056.0	7131.4	7280.6	7404.8	7465.1	7458.4	7366.2	6990.6	6314.8
12.5°	6427.2	6447.3	6529.4	6658.6	6841.4	7052.6	7213.6	7245.5	7247.1	6928.5	6168.9
15°	5964.3	5956.0	6019.7	6168.9	6425.5	6690.4	6978.9	7029.1	7109.6	6868.2	6033.1
17.5°	5568.7	5612.2	5622.3	5786.6	6023.1	6366.8	6734.0	6822.9	6983.9	6816.2	5920.8
20°	5323.9	5347.3	5369.1	5461.3	5674.3	6036.5	6504.3	6626.7	6866.5	6769.3	5795.1
22.5°	5251.7	5266.8	5248.4	5276.9	5427.8	5749.7	6254.4	6417.2	6754.2	6725.7	5692.7
25°	5307.1	5322.1	5278.6	5245.0	5297.0	5516.7	6013.0	6210.8	6663.6	6717.3	5615.6
27.5°	5441.2	5469.7	5409.4	5349.0	5318.8	5391.0	5823.6	6053.2	6601.6	6757.5	5580.4
30°	5650.8	5667.6	5622.3	5548.6	5479.8	5407.7	5724.6	5944.2	6584.8	6851.4	5577.1
32.5°	5878.8	5914.1	5888.9	5840.3	5751.4	5580.4	5753.1	5947.6	6625.0	6987.3	5619.0
35°	6160.6	6200.8	6224.3	6214.2	6100.2	5887.2	5934.2	6098.6	6732.4	7237.1	5733.0
37.5°	6437.3	6472.4	6604.9	6650.2	6549.6	6348.4	6286.3	6395.3	6968.8	7564.0	5939.2
40°	6754.2	6801.1	6987.3	7159.9	7111.3	6900.0	6786.0	6876.5	7331.0	8057.0	6329.9
42.5°	7057.6	7141.5	7424.9	7730.1	7775.3	7538.9	7463.5	7493.6	7867.6	8766.3	6874.9
45°	7488.6	7567.4	7933.0	8347.1	8560.1	8375.6	8298.5	8293.5	8603.7	9764.0	7758.6
47.5°	8110.7	8181.1	8612.1	9021.2	9400.1	9425.3	9279.4	9329.8	9529.3	10931.1	8841.8
50°	8873.7	9039.7	9323.0	9748.9	10255.3	10664.5	10709.7	10642.7	10813.7	12282.6	10143.0
52.5°	9982.0	10045.7	10305.6	10656.1	11249.7	11943.9	12482.1	12389.9	12336.2	13570.3	11457.6
55°	10808.7	10894.2	11298.3	11779.5	12649.8	13565.3	14732.4	14764.2	14086.8	14807.9	12743.7
57.5°	10558.8	10689.6	11301.7	12269.1	14182.4	15855.8	16724.4	16746.2	15706.6	16010.1	14195.8
60°	9276.0	9338.1	10215.1	11506.2	14313.2	18337.5	19549.9	19373.8	17354.9	17354.9	15478.6
62.5°	6578.1	6675.3	7386.3	9286.1	12926.5	19199.4	22933.6	22569.7	19625.3	18641.0	16243.2
65°	4203.8	4109.8	4581.0	5862.1	9629.9	17926.7	25879.7	25901.6	21761.5	19155.8	15825.7
67°	3045.1	3008.2	3144.0	4007.6	6529.4	15069.4	25941.8	27090.4	22989.0	18830.4	14490.9
67.5°	2785.1	2813.7	2912.6	3615.2	5932.6	13712.9	25660.1	27020.0	23265.6	18634.3	14008.0
70°	2111.1	2062.5	2169.8	2557.1	3556.5	8650.6	22073.4	24781.5	22921.9	16687.5	11192.7
72.5°	1552.7	1547.7	1696.9	2091.0	2738.2	4607.9	16570.2	19870.1	18726.5	12706.8	7047.6
75°	1048.0	1094.9	1333.1	1747.3	2481.6	2988.1	11296.6	14415.5	13000.2	7215.3	2880.7
77.5°	597.0	600.3	858.6	1403.4	2228.5	2404.5	6693.8	9183.8	6881.6	2399.5	855.2
80°	258.2	283.4	425.9	1019.5	1847.8	2129.5	3838.2	5047.1	2783.5	508.1	276.6
82.5°	95.6	112.4	187.8	627.1	1348.2	1753.9	2319.0	2409.5	944.1	179.4	172.7
85°	0.0	3.4	68.7	293.5	702.6	783.1	1549.4	1428.7	417.5	85.5	112.4
87.5°	0.0	0.0	0.0	30.1	92.2	291.7	481.2	536.6	100.6	30.1	26.9
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°	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9
2.5°	6601.6	6492.6	6219.3	5945.9	5743.1	5573.7	5318.8	5179.6	5105.9	4996.9	5003.6
5°	6435.6	6214.2	5733.0	5235.0	4832.5	4440.2	3970.7	3781.2	3621.9	3531.3	3471.0
7.5°	6189.1	5862.1	5149.5	4485.4	3866.7	3180.9	2666.1	2322.4	2091.0	2005.4	1923.3
10°	5919.1	5484.8	4557.5	3637.0	2778.5	2070.9	1634.9	1319.7	1207.3	1103.3	1113.4
12.5°	5669.2	5141.1	4014.3	2870.7	1946.8	1316.3	1026.2	897.1	860.2	848.5	848.5
15°	5464.7	4812.4	3430.7	2158.0	1334.7	945.7	821.6	786.4	773.0	769.7	769.7
17.5°	5246.7	4500.5	2904.2	1594.7	970.8	791.5	749.6	726.1	721.0	717.7	717.7
20°	5052.2	4186.9	2404.5	1187.2	784.7	712.6	685.8	670.7	665.7	662.3	664.0
22.5°	4867.8	3908.7	1935.0	897.1	690.8	649.0	622.1	607.0	597.0	588.6	590.2
25°	4703.4	3640.3	1556.1	734.5	622.1	585.2	558.4	536.6	514.7	504.7	503.1
27.5°	4587.8	3405.6	1212.3	628.8	560.1	519.8	486.2	459.5	431.0	415.9	412.5
30°	4492.1	3167.5	959.1	555.0	498.0	459.5	417.5	379.0	348.7	333.7	327.0
32.5°	4430.1	2941.1	756.2	494.6	446.0	399.1	352.1	313.6	280.0	265.0	261.6
35°	4420.0	2751.6	618.7	444.4	399.1	348.7	300.1	258.2	229.7	214.6	211.3
37.5°	4492.1	2605.7	518.1	404.1	360.5	305.2	251.5	213.0	187.8	176.1	174.4
40°	4685.0	2513.5	449.4	370.6	325.3	265.0	214.6	181.1	156.0	144.2	144.2
42.5°	5052.2	2516.9	404.1	338.7	290.1	226.4	182.8	150.9	129.1	119.0	115.7
45°	5625.7	2630.9	365.5	306.9	256.6	196.2	156.0	124.1	102.3	93.9	93.9
47.5°	6393.7	2857.2	332.0	275.0	226.4	167.7	132.5	100.6	82.1	73.8	73.8
50°	7398.0	3221.1	303.5	248.1	201.2	144.2	107.3	82.1	63.7	57.0	55.4
52.5°	8447.7	3670.5	270.0	224.7	172.7	122.4	87.2	63.7	48.6	43.6	41.9
55°	9606.4	4109.8	238.1	201.2	140.9	102.3	68.7	50.3	35.2	30.1	30.1
57.5°	10775.1	4540.8	199.5	167.7	110.6	75.5	53.6	36.9	23.5	18.5	18.5
60°	11764.4	4680.0	169.4	135.9	83.9	53.6	38.6	23.5	13.4	8.4	8.4
62.5°	11900.3	4210.4	142.5	104.0	60.4	36.9	20.1	13.4	5.0	3.4	3.4
65°	11162.4	3420.7	119.0	78.8	40.2	18.5	8.4	5.0	1.6	0.0	0.0
67°	10002.1	2773.5	97.2	58.7	28.5	11.7	5.0	1.6	0.0	0.0	0.0
67.5°	9705.4	2644.3	93.9	55.4	25.1	10.0	3.4	1.6	0.0	0.0	0.0
70°	7616.0	1980.3	67.1	33.5	15.1	6.7	0.0	0.0	0.0	0.0	0.0
72.5°	4733.6	1120.1	48.6	20.1	10.0	3.4	0.0	0.0	0.0	0.0	0.0
75°	1789.2	392.4	33.5	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	556.7	149.2	20.1	10.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	187.8	57.0	13.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	115.7	23.5	8.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	72.1	10.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	3.4	1.6	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)