

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: P648485

Luminaire Tested: **GALN-SA6B-835-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648485  
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-SA6B-835-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA 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: 21855.1 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

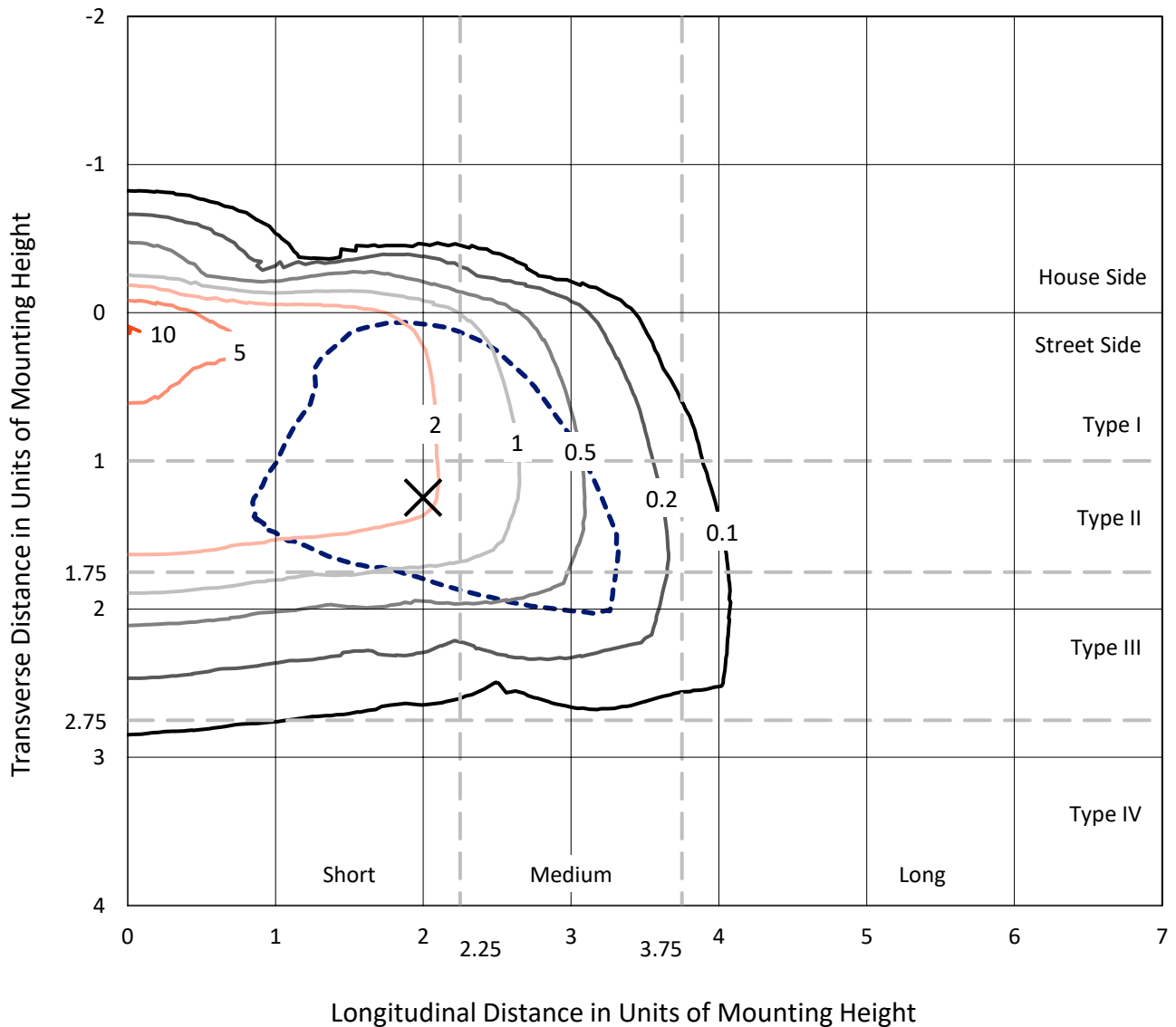
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648485  
 CATALOG NUMBER: GALN-SA6B-835-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

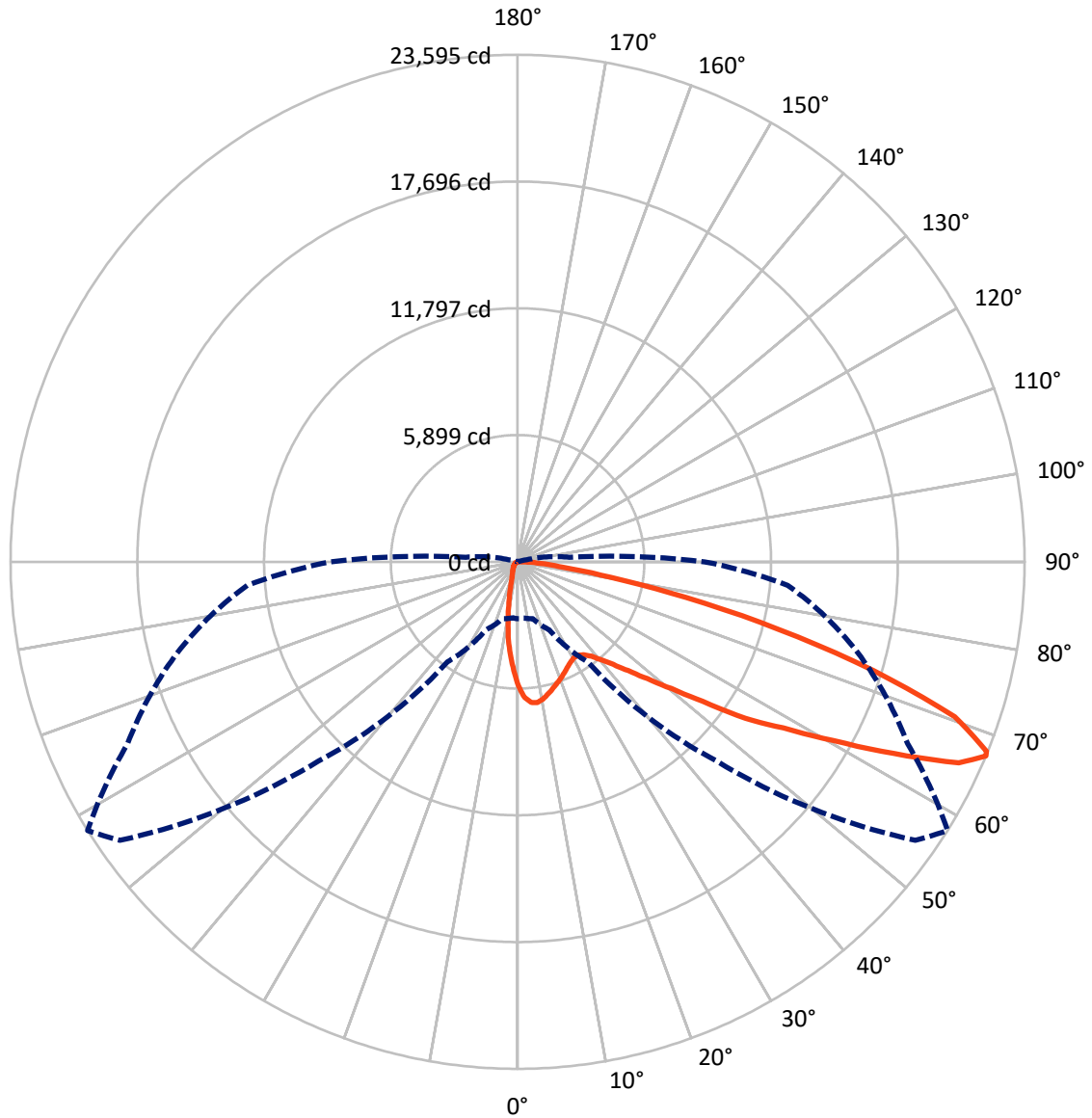
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P648485  
CATALOG NUMBER: GALN-SA6B-835-U-SL3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P648485  
 CATALOG NUMBER: GALN-SA6B-835-U-SL3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1577.2	0.0	1577.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	20277.9	0.0	20277.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	21855.1	0.0	21855.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.1	2.2
10°-20°	1015.4	4.6
20°-30°	1375.9	6.3
30°-40°	1908.3	8.7
40°-50°	3043.5	13.9
50°-60°	5261.0	24.1
60°-70°	6009.7	27.5
70°-80°	2505.5	11.5
80°-90°	265.7	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°	21855.1	100.0
0°-180°	21855.1	100.0

**Coefficient of Utilization**

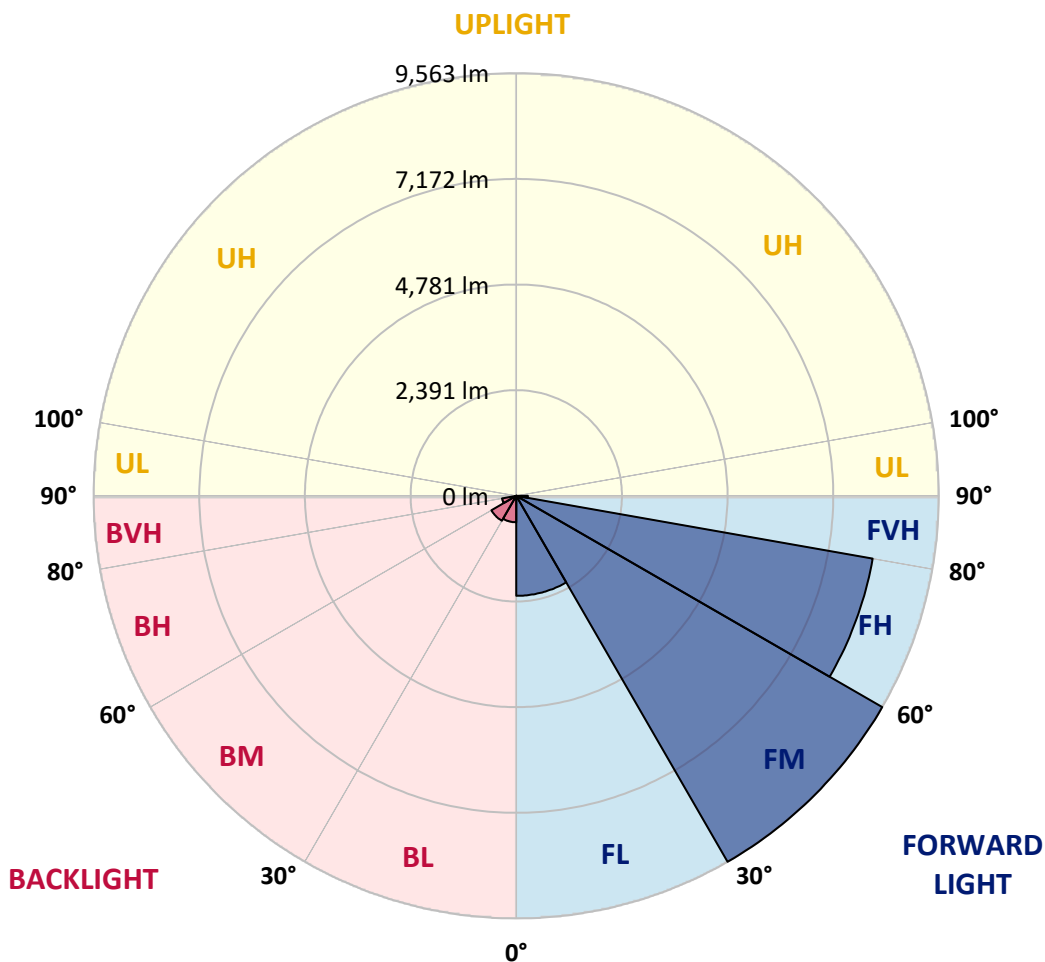


REPORT NUMBER: P648485  
 CATALOG NUMBER: GALN-SA6B-835-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.5	10.4			
FM (30°-60°)	9562.5	43.8			
FH (60°-80°)	8189.1	37.5			G4/12000
FVH (80°-90°)	263.7	1.2			G3/500
BL (0°-30°)	598.9	2.7	B2/1000		
BM (30°-60°)	650.3	3.0	B1/1000		
BH (60°-80°)	326.1	1.5	B1/500		G1/500
BVH (80°-90°)	1.9	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: P648485

CATALOG NUMBER: GALN-SA6B-835-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6
2.5°	6723.9	6734.1	6696.1	6665.4	6586.6	6501.9	6389.4	6329.5	6227.4	6050.6	5855.0
5°	6881.6	6894.8	6888.9	6881.6	6850.9	6769.2	6626.1	6573.4	6423.0	6135.4	5781.9
7.5°	6531.1	6579.3	6585.1	6642.1	6696.1	6703.4	6649.4	6610.0	6471.3	6133.9	5651.9
10°	6066.7	6098.8	6145.5	6211.3	6341.3	6449.3	6501.9	6496.1	6415.7	6088.6	5500.0
12.5°	5597.9	5615.4	5687.0	5799.4	5958.6	6142.6	6282.9	6310.6	6312.1	6034.6	5372.9
15°	5194.8	5187.5	5243.0	5372.9	5596.4	5827.2	6078.4	6122.2	6192.3	5982.0	5254.7
17.5°	4850.1	4888.1	4896.9	5040.0	5245.9	5545.3	5865.1	5942.6	6082.7	5936.7	5156.8
20°	4636.9	4657.4	4676.3	4756.6	4942.1	5257.6	5665.1	5771.6	5980.6	5895.8	5047.3
22.5°	4574.1	4587.3	4571.2	4596.1	4727.4	5007.8	5447.5	5589.1	5882.7	5857.9	4958.2
25°	4622.3	4635.4	4597.5	4568.3	4613.5	4804.9	5237.2	5409.5	5803.8	5850.6	4891.0
27.5°	4739.1	4764.0	4711.4	4658.8	4632.5	4695.3	5072.1	5272.2	5749.8	5885.6	4860.4
30°	4921.7	4936.3	4896.9	4832.6	4772.7	4709.9	4986.0	5177.3	5735.2	5967.4	4857.4
32.5°	5120.4	5151.0	5129.1	5086.8	5009.3	4860.4	5010.8	5180.2	5770.2	6085.7	4894.0
35°	5365.7	5400.7	5421.2	5412.4	5313.1	5127.6	5168.5	5311.6	5863.7	6303.3	4993.3
37.5°	5606.7	5637.3	5752.7	5792.1	5704.5	5529.2	5475.2	5570.1	6069.6	6588.1	5172.9
40°	5882.7	5923.6	6085.7	6236.1	6193.8	6009.8	5910.4	5989.3	6385.1	7017.4	5513.2
42.5°	6147.0	6220.1	6466.9	6732.6	6772.1	6566.2	6500.5	6526.7	6852.4	7635.2	5987.8
45°	6522.3	6591.0	6909.3	7270.1	7455.6	7294.9	7227.7	7223.3	7493.5	8504.2	6757.4
47.5°	7064.1	7125.5	7500.8	7857.2	8187.3	8209.1	8082.1	8125.9	8299.7	9520.7	7701.0
50°	7728.7	7873.2	8120.1	8491.0	8932.1	9288.4	9327.9	9269.5	9418.4	10697.7	8834.2
52.5°	8694.0	8749.6	8975.9	9281.1	9798.1	10402.8	10871.6	10791.2	10744.5	11819.4	9979.3
55°	9414.0	9488.5	9840.5	10259.6	11017.6	11815.0	12831.5	12859.2	12269.2	12897.2	11099.4
57.5°	9196.4	9310.3	9843.4	10686.1	12352.5	13810.0	14566.5	14585.5	13679.9	13944.3	12364.1
60°	8079.2	8133.3	8897.0	10021.5	12466.4	15971.4	17027.4	16874.0	15115.6	15115.6	13481.4
62.5°	5729.3	5814.0	6433.3	8087.9	11258.6	16722.1	19974.5	19657.6	17093.0	16235.7	14147.3
65°	3661.3	3579.6	3989.9	5105.7	8387.3	15613.6	22540.5	22559.5	18953.7	16684.1	13783.7
67°	2652.2	2620.1	2738.3	3490.5	5687.0	13125.0	22594.6	23594.9	20022.7	16400.8	12621.2
67.5°	2425.8	2450.6	2536.8	3148.8	5167.0	11943.5	22349.2	23533.6	20263.6	16229.9	12200.5
70°	1838.7	1796.4	1889.8	2227.2	3097.6	7534.4	19225.3	21583.9	19964.3	14534.4	9748.5
72.5°	1352.4	1348.0	1478.0	1821.2	2384.9	4013.3	14432.1	17306.3	16310.3	11067.2	6138.3
75°	912.7	953.7	1161.0	1521.8	2161.5	2602.5	9839.0	12555.5	11322.8	6284.3	2509.0
77.5°	519.9	522.8	747.8	1222.4	1940.9	2094.3	5830.1	7998.9	5993.6	2089.9	744.8
80°	224.9	246.8	371.0	887.9	1609.4	1854.8	3342.9	4395.9	2424.3	442.6	241.0
82.5°	83.2	97.9	163.6	546.2	1174.2	1527.6	2019.8	2098.7	822.2	156.3	150.4
85°	0.0	2.9	59.9	255.6	611.9	682.0	1349.4	1244.3	363.6	74.5	97.9
87.5°	0.0	0.0	0.0	26.3	80.3	254.1	419.1	467.4	87.6	26.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648485  
 CATALOG NUMBER: GALN-SA6B-835-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6
2.5°	5749.8	5654.8	5416.8	5178.8	5002.0	4854.5	4632.5	4511.3	4447.0	4352.1	4357.9
5°	5605.2	5412.4	4993.3	4559.5	4209.0	3867.2	3458.4	3293.3	3154.6	3075.7	3023.1
7.5°	5390.5	5105.7	4485.0	3906.7	3367.8	2770.5	2322.1	2022.7	1821.2	1746.7	1675.2
10°	5155.4	4777.1	3969.5	3167.7	2419.9	1803.6	1424.0	1149.4	1051.5	961.0	969.7
12.5°	4937.8	4477.7	3496.3	2500.3	1695.6	1146.5	893.8	781.4	749.2	739.0	739.0
15°	4759.6	4191.5	2988.1	1879.6	1162.5	823.7	715.6	685.0	673.3	670.3	670.3
17.5°	4569.7	3919.9	2529.5	1388.9	845.6	689.4	652.8	632.4	628.0	625.1	625.1
20°	4400.3	3646.7	2094.3	1034.0	683.5	620.7	597.4	584.2	579.8	576.9	578.3
22.5°	4239.7	3404.3	1685.3	781.4	601.7	565.2	541.8	528.7	519.9	512.6	514.0
25°	4096.6	3170.6	1355.3	639.7	541.8	509.7	486.3	467.4	448.3	439.6	438.2
27.5°	3995.8	2966.2	1055.9	547.6	487.8	452.7	423.5	400.2	375.4	362.2	359.2
30°	3912.5	2758.7	835.4	483.4	433.8	400.2	363.6	330.0	303.8	290.6	284.8
32.5°	3858.5	2561.6	658.7	430.8	388.4	347.6	306.7	273.1	243.9	230.8	227.9
35°	3849.7	2396.6	538.9	387.0	347.6	303.8	261.4	224.9	200.1	186.9	184.0
37.5°	3912.5	2269.5	451.2	352.0	314.0	265.8	219.1	185.5	163.6	153.3	151.9
40°	4080.4	2189.2	391.4	322.8	283.3	230.8	186.9	157.7	135.9	125.6	125.6
42.5°	4400.3	2192.2	352.0	295.0	252.7	197.2	159.2	131.5	112.4	103.7	100.8
45°	4899.8	2291.4	318.4	267.2	223.5	170.9	135.9	108.1	89.1	81.8	81.8
47.5°	5568.7	2488.6	289.2	239.5	197.2	146.0	115.4	87.6	71.6	64.3	64.3
50°	6443.5	2805.5	264.3	216.1	175.2	125.6	93.5	71.6	55.5	49.6	48.2
52.5°	7357.7	3196.9	235.1	195.7	150.4	106.6	76.0	55.5	42.4	38.0	36.5
55°	8366.9	3579.6	207.4	175.2	122.7	89.1	59.9	43.8	30.7	26.3	26.3
57.5°	9384.8	3954.9	173.8	146.0	96.4	65.7	46.7	32.1	20.4	16.1	16.1
60°	10246.5	4076.1	147.5	118.3	73.1	46.7	33.6	20.4	11.7	7.3	7.3
62.5°	10364.8	3667.2	124.1	90.5	52.5	32.1	17.5	11.7	4.4	2.9	2.9
65°	9722.2	2979.3	103.7	68.7	35.1	16.1	7.3	4.4	1.5	0.0	0.0
67°	8711.6	2415.6	84.7	51.1	24.8	10.3	4.4	1.5	0.0	0.0	0.0
67.5°	8453.0	2303.1	81.8	48.2	21.9	8.8	2.9	1.5	0.0	0.0	0.0
70°	6633.3	1724.8	58.4	29.2	13.2	5.9	0.0	0.0	0.0	0.0	0.0
72.5°	4122.8	975.5	42.4	17.5	8.8	2.9	0.0	0.0	0.0	0.0	0.0
75°	1558.3	341.8	29.2	11.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	484.8	130.0	17.5	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	163.6	49.6	11.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	100.8	20.4	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	62.8	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	2.9	1.5	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)