

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: P458927

Luminaire Tested: **GALN-SA4C-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458927  
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-SA4C-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 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: 21431 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 213  
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

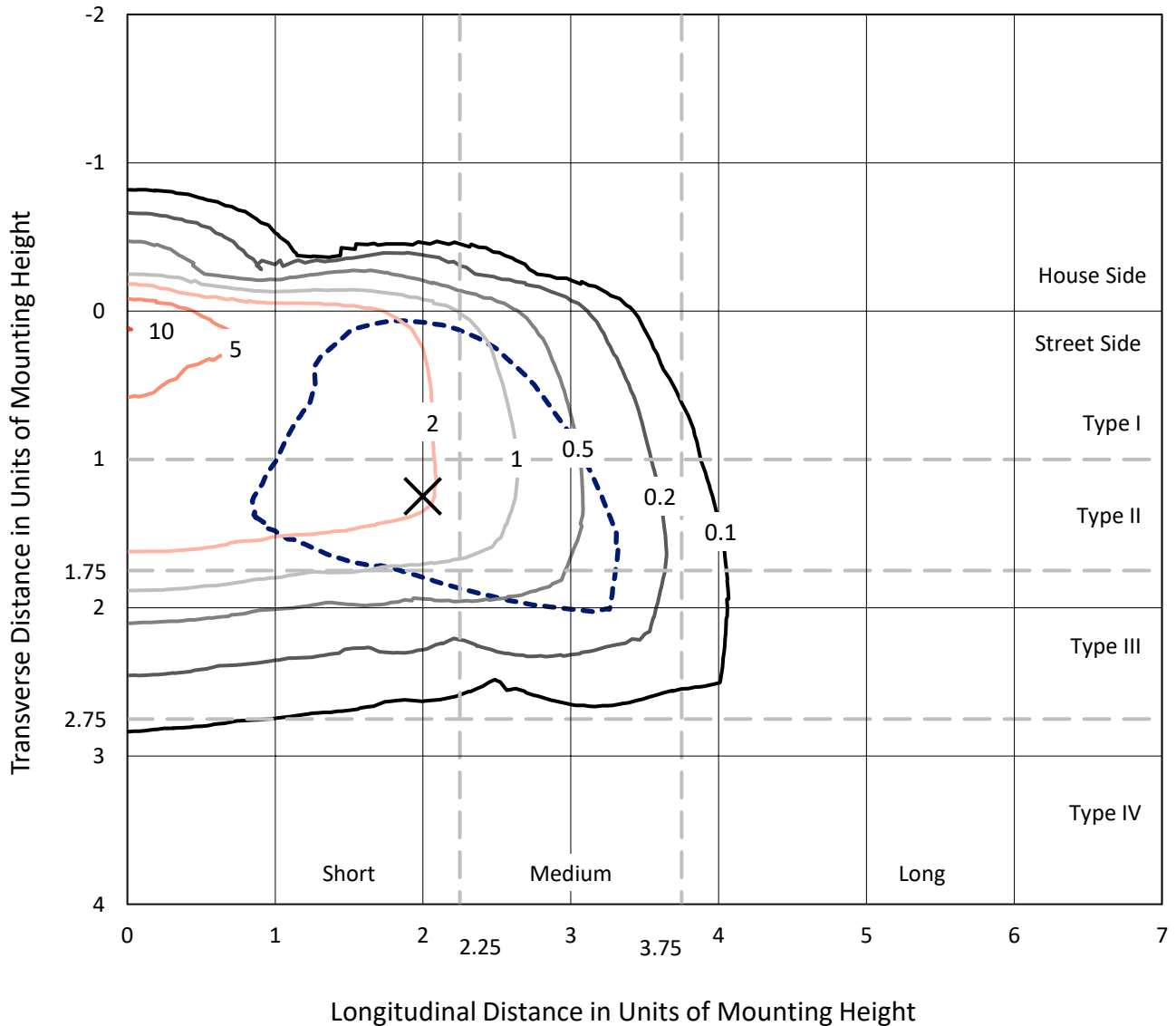




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### Iso-Footcandle Lines of Horizontal Illumination

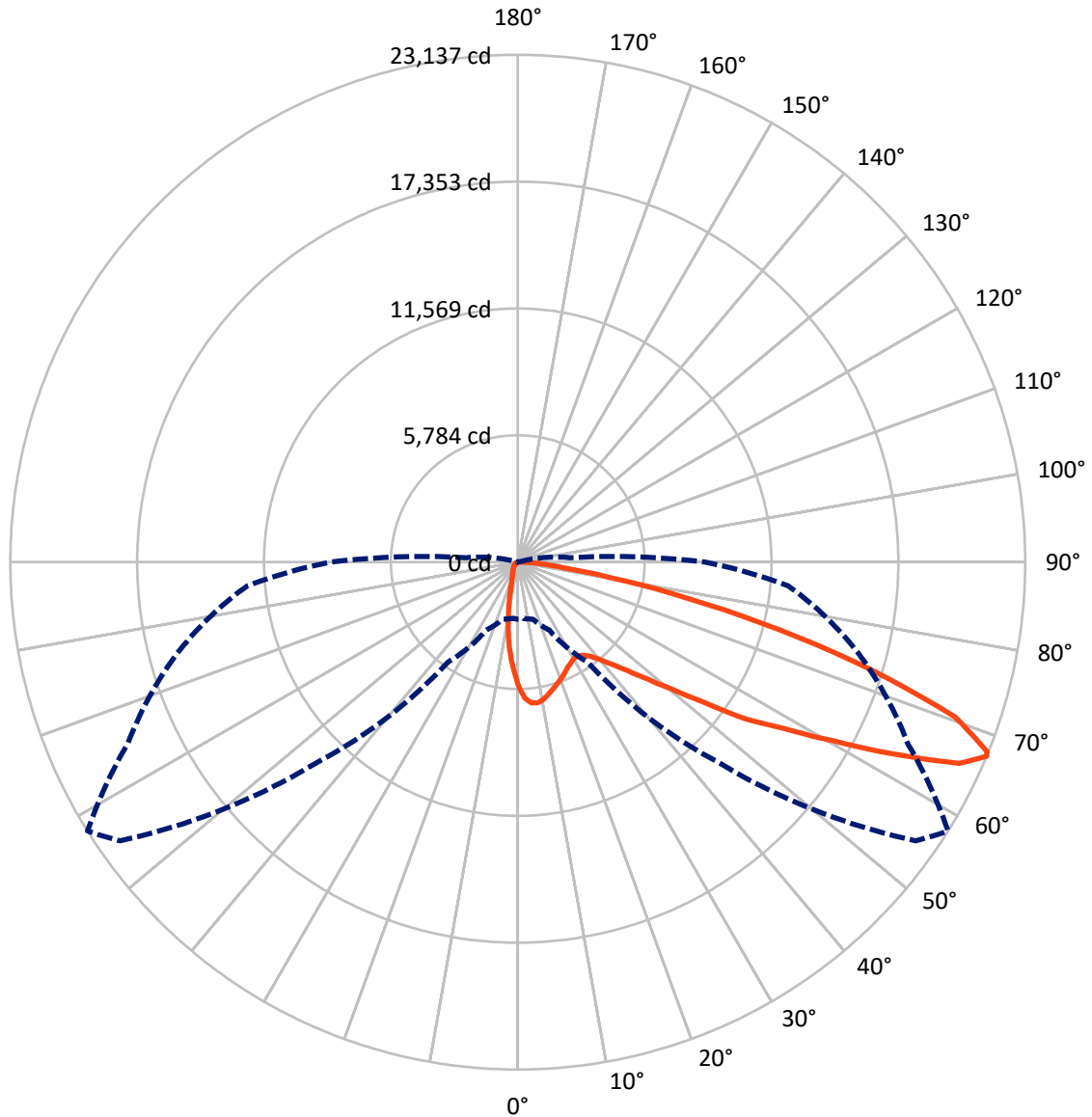
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	1546.6	0.0	1546.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19884.4	0.0	19884.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	21431.0	0.0	21431.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.0	2.2
10°-20°	995.7	4.6
20°-30°	1349.2	6.3
30°-40°	1871.3	8.7
40°-50°	2984.5	13.9
50°-60°	5158.9	24.1
60°-70°	5893.1	27.5
70°-80°	2456.9	11.5
80°-90°	260.5	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°	21431.0	100.0
0°-180°	21431.0	100.0

**Coefficient of Utilization**



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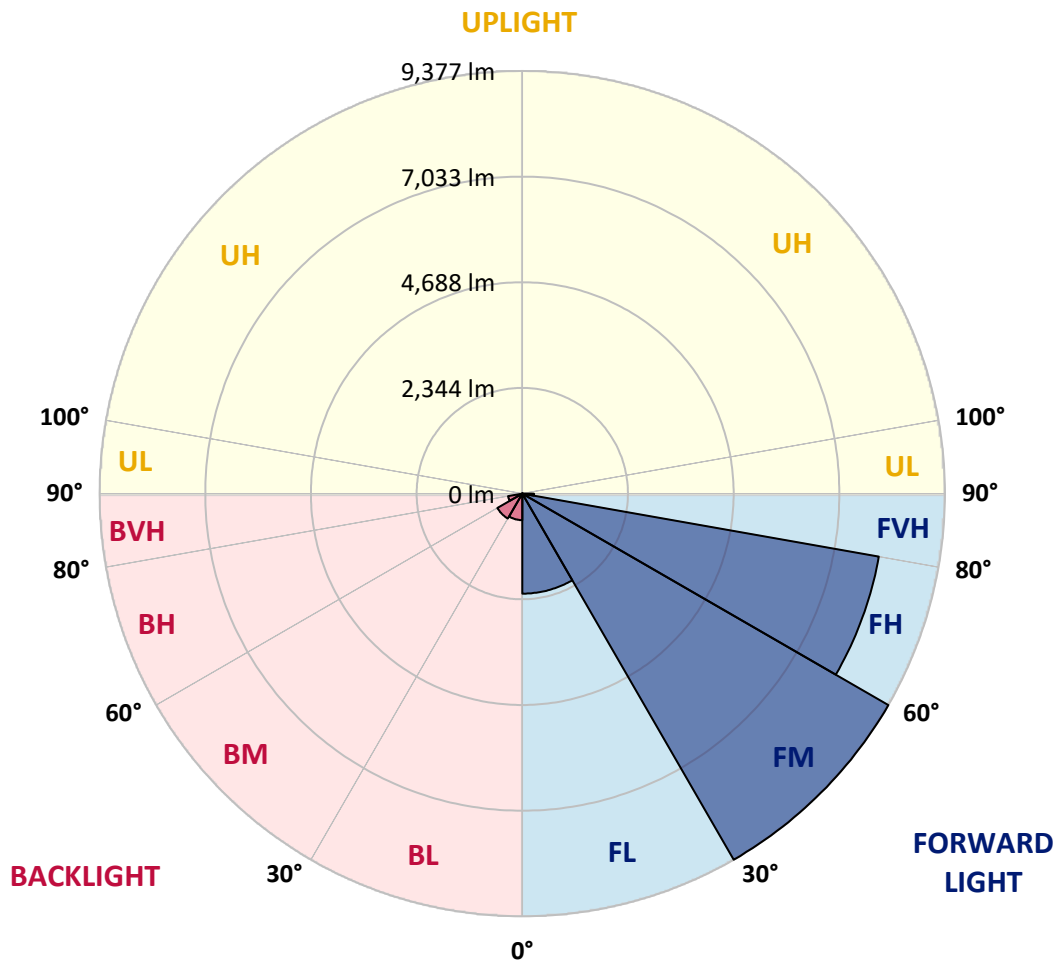
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2218.6	10.4			
FM	(30°-60°)	9377.0	43.8			
FH	(60°-80°)	8030.2	37.5			G4/12000
FVH	(80°-90°)	258.6	1.2			G3/500
BL	(0°-30°)	587.3	2.7	B2/1000		
BM	(30°-60°)	637.7	3.0	B1/1000		
BH	(60°-80°)	319.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2
2.5°	6593.4	6603.4	6566.2	6536.1	6458.8	6375.7	6265.5	6206.7	6106.5	5933.2	5741.3
5°	6748.1	6761.0	6755.2	6748.1	6718.0	6637.8	6497.5	6445.9	6298.4	6016.3	5669.7
7.5°	6404.4	6451.6	6457.4	6513.2	6566.2	6573.4	6520.4	6481.7	6345.7	6014.8	5542.2
10°	5949.0	5980.5	6026.3	6090.7	6218.2	6324.2	6375.7	6370.0	6291.2	5970.4	5393.3
12.5°	5489.3	5506.4	5576.6	5686.9	5843.0	6023.4	6160.9	6188.1	6189.6	5917.5	5268.7
15°	5094.0	5086.8	5141.3	5268.7	5487.8	5714.1	5960.4	6003.4	6072.1	5865.9	5152.7
17.5°	4756.0	4793.3	4801.8	4942.2	5144.1	5437.7	5751.3	5827.2	5964.7	5821.5	5056.8
20°	4546.9	4567.0	4585.6	4664.4	4846.2	5155.6	5555.1	5659.7	5864.5	5781.4	4949.4
22.5°	4485.4	4498.2	4482.5	4506.8	4635.7	4910.7	5341.8	5480.7	5768.5	5744.2	4862.0
25°	4532.6	4545.5	4508.3	4479.6	4524.0	4711.6	5135.5	5304.5	5691.2	5737.0	4796.1
27.5°	4647.2	4671.5	4620.0	4568.4	4542.6	4604.2	4973.7	5169.9	5638.2	5771.4	4766.0
30°	4826.2	4840.5	4801.8	4738.8	4680.1	4618.5	4889.2	5076.8	5623.9	5851.6	4763.2
32.5°	5021.0	5051.0	5029.6	4988.0	4912.1	4766.0	4913.6	5079.7	5658.2	5967.6	4799.0
35°	5261.6	5295.9	5316.0	5307.4	5210.0	5028.1	5068.2	5208.6	5749.9	6181.0	4896.4
37.5°	5497.9	5527.9	5641.1	5679.7	5593.8	5422.0	5369.0	5462.0	5951.8	6460.2	5072.5
40°	5768.5	5808.6	5967.6	6115.1	6073.6	5893.1	5795.7	5873.1	6261.2	6881.3	5406.2
42.5°	6027.7	6099.3	6341.4	6602.0	6640.7	6438.7	6374.3	6400.1	6719.4	7487.0	5871.6
45°	6395.8	6463.1	6775.3	7129.0	7310.9	7153.4	7087.5	7083.2	7348.1	8339.1	6626.4
47.5°	6927.1	6987.2	7355.3	7704.7	8028.4	8049.9	7925.3	7968.2	8138.7	9335.9	7551.5
50°	7578.7	7720.5	7962.5	8326.3	8758.8	9108.2	9146.9	9089.6	9235.6	10490.2	8662.8
52.5°	8525.3	8579.7	8801.7	9101.0	9608.0	10200.9	10660.6	10581.8	10536.0	11590.0	9785.6
55°	9231.4	9304.4	9649.5	10060.5	10803.8	11585.7	12582.5	12609.7	12031.1	12646.9	10884.0
57.5°	9018.0	9129.7	9652.4	10478.7	12112.7	13542.0	14283.8	14302.4	13414.5	13673.7	12124.2
60°	7922.4	7975.4	8724.4	9827.1	12224.4	15661.5	16696.9	16546.5	14822.3	14822.3	13219.8
62.5°	5618.1	5701.2	6308.4	7931.0	11040.1	16397.6	19586.9	19276.1	16761.4	15920.7	13872.8
65°	3590.3	3510.1	3912.5	5006.6	8224.6	15310.6	22103.1	22121.7	18585.9	16360.4	13516.2
67°	2600.7	2569.2	2685.2	3422.7	5576.6	12870.3	22156.1	23137.1	19634.2	16082.5	12376.3
67.5°	2378.7	2403.1	2487.6	3087.6	5066.8	11711.8	21915.5	23076.9	19870.5	15915.0	11963.8
70°	1803.0	1761.5	1853.1	2184.0	3037.5	7388.2	18852.2	21165.1	19576.9	14252.3	9559.3
72.5°	1326.1	1321.8	1449.3	1785.8	2338.6	3935.4	14152.1	16970.4	15993.8	10852.5	6019.1
75°	895.1	935.2	1138.5	1492.3	2119.5	2552.0	9648.1	12311.8	11103.1	6162.3	2460.4
77.5°	509.8	512.7	733.2	1198.7	1903.3	2053.6	5717.0	7843.6	5877.4	2049.3	730.4
80°	220.5	242.0	363.8	870.7	1578.2	1818.8	3278.1	4310.6	2377.3	433.9	236.3
82.5°	81.6	96.0	160.4	535.6	1151.4	1498.0	1980.6	2057.9	806.3	153.2	147.5
85°	0.0	2.9	58.7	250.6	600.1	668.8	1323.3	1220.2	356.6	73.0	96.0
87.5°	0.0	0.0	0.0	25.8	78.8	249.2	411.0	458.3	85.9	25.8	22.9
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°	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2	5681.2
2.5°	5638.2	5545.1	5311.7	5078.2	4905.0	4760.3	4542.6	4423.8	4360.8	4267.7	4273.4
5°	5496.4	5307.4	4896.4	4471.0	4127.3	3792.2	3391.2	3229.4	3093.3	3016.0	2964.5
7.5°	5285.9	5006.6	4398.0	3830.9	3302.4	2716.7	2277.0	1983.5	1785.8	1712.8	1642.6
10°	5055.3	4684.4	3892.5	3106.2	2373.0	1768.6	1396.3	1127.1	1031.1	942.3	950.9
12.5°	4841.9	4390.8	3428.5	2451.8	1662.7	1124.2	876.4	766.2	734.7	724.6	724.6
15°	4667.2	4110.1	2930.1	1843.1	1140.0	807.7	701.7	671.7	660.2	657.3	657.3
17.5°	4481.1	3843.8	2480.4	1361.9	829.2	676.0	640.2	620.1	615.8	612.9	612.9
20°	4314.9	3576.0	2053.6	1013.9	670.2	608.6	585.7	572.8	568.5	565.7	567.1
22.5°	4157.4	3338.2	1652.6	766.2	590.0	554.2	531.3	518.4	509.8	502.7	504.1
25°	4017.1	3109.1	1329.0	627.3	531.3	499.8	476.9	458.3	439.7	431.1	429.6
27.5°	3918.2	2908.6	1035.4	537.0	478.3	444.0	415.3	392.4	368.1	355.2	352.3
30°	3836.6	2705.2	819.2	474.0	425.3	392.4	356.6	323.7	297.9	285.0	279.3
32.5°	3783.6	2511.9	645.9	422.5	380.9	340.8	300.7	267.8	239.2	226.3	223.4
35°	3775.0	2350.1	528.4	379.5	340.8	297.9	256.3	220.5	196.2	183.3	180.4
37.5°	3836.6	2225.5	442.5	345.1	307.9	260.6	214.8	181.9	160.4	150.4	148.9
40°	4001.3	2146.7	383.8	316.5	277.8	226.3	183.3	154.7	133.2	123.2	123.2
42.5°	4314.9	2149.6	345.1	289.3	247.8	193.3	156.1	128.9	110.3	101.7	98.8
45°	4804.7	2247.0	312.2	262.1	219.1	167.6	133.2	106.0	87.4	80.2	80.2
47.5°	5460.6	2440.3	283.6	234.9	193.3	143.2	113.1	85.9	70.2	63.0	63.0
50°	6318.4	2751.1	259.2	212.0	171.9	123.2	91.7	70.2	54.4	48.7	47.3
52.5°	7214.9	3134.9	230.6	191.9	147.5	104.5	74.5	54.4	41.5	37.2	35.8
55°	8204.5	3510.1	203.4	171.9	120.3	87.4	58.7	43.0	30.1	25.8	25.8
57.5°	9202.7	3878.1	170.4	143.2	94.5	64.4	45.8	31.5	20.0	15.8	15.8
60°	10047.7	3997.0	144.6	116.0	71.6	45.8	32.9	20.0	11.5	7.2	7.2
62.5°	10163.7	3596.0	121.7	88.8	51.6	31.5	17.2	11.5	4.3	2.9	2.9
65°	9533.5	2921.5	101.7	67.3	34.4	15.8	7.2	4.3	1.4	0.0	0.0
67°	8542.5	2368.7	83.1	50.1	24.3	10.0	4.3	1.4	0.0	0.0	0.0
67.5°	8289.0	2258.4	80.2	47.3	21.5	8.6	2.9	1.4	0.0	0.0	0.0
70°	6504.6	1691.3	57.3	28.6	12.9	5.7	0.0	0.0	0.0	0.0	0.0
72.5°	4042.8	956.6	41.5	17.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0
75°	1528.1	335.1	28.6	11.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	475.5	127.5	17.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.4	48.7	11.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	98.8	20.0	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.6	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	2.9	1.4	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)