

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: P452779

Luminaire Tested: **GALN-SA3D-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452779  
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-SA3D-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 17398 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

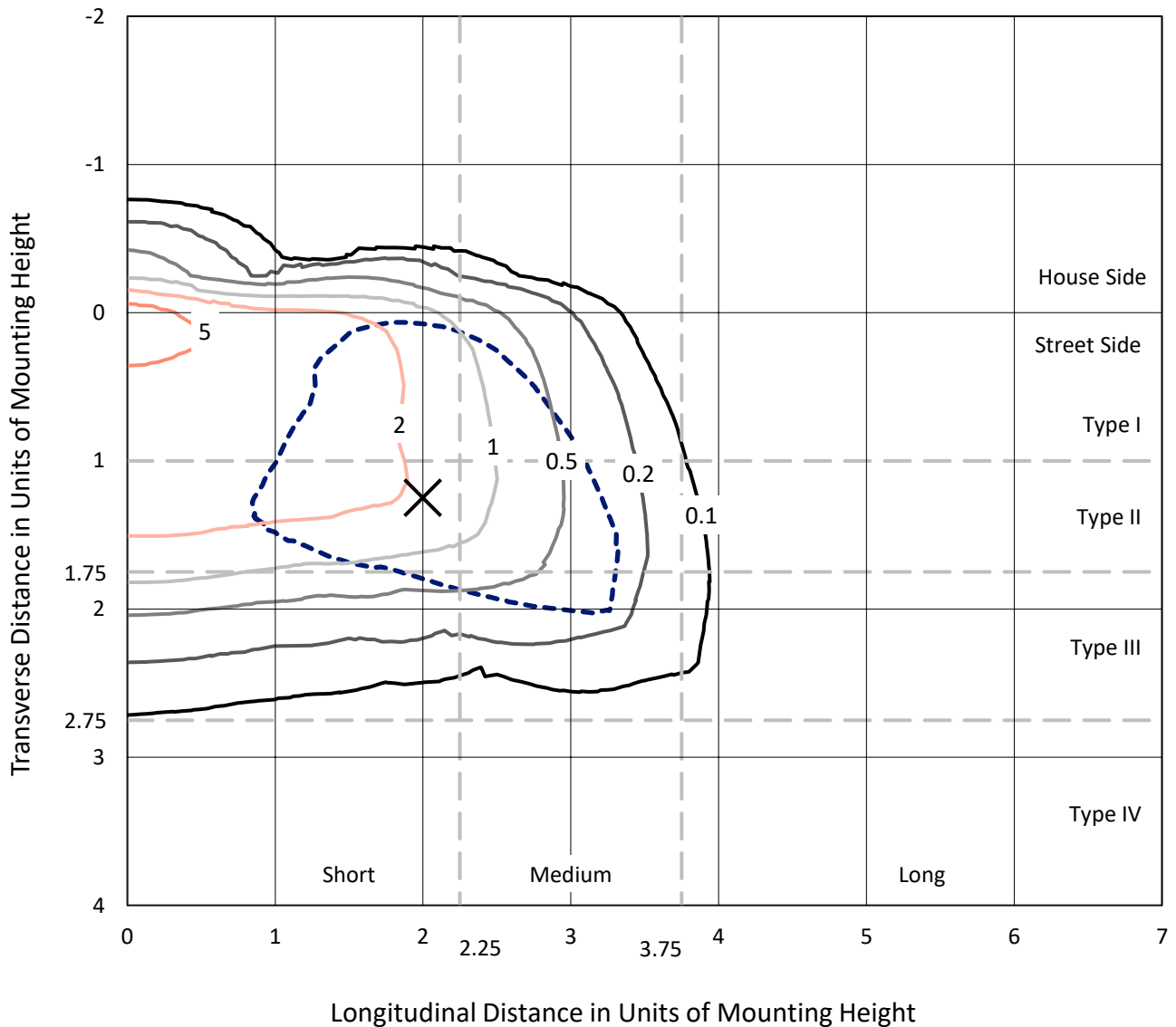
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

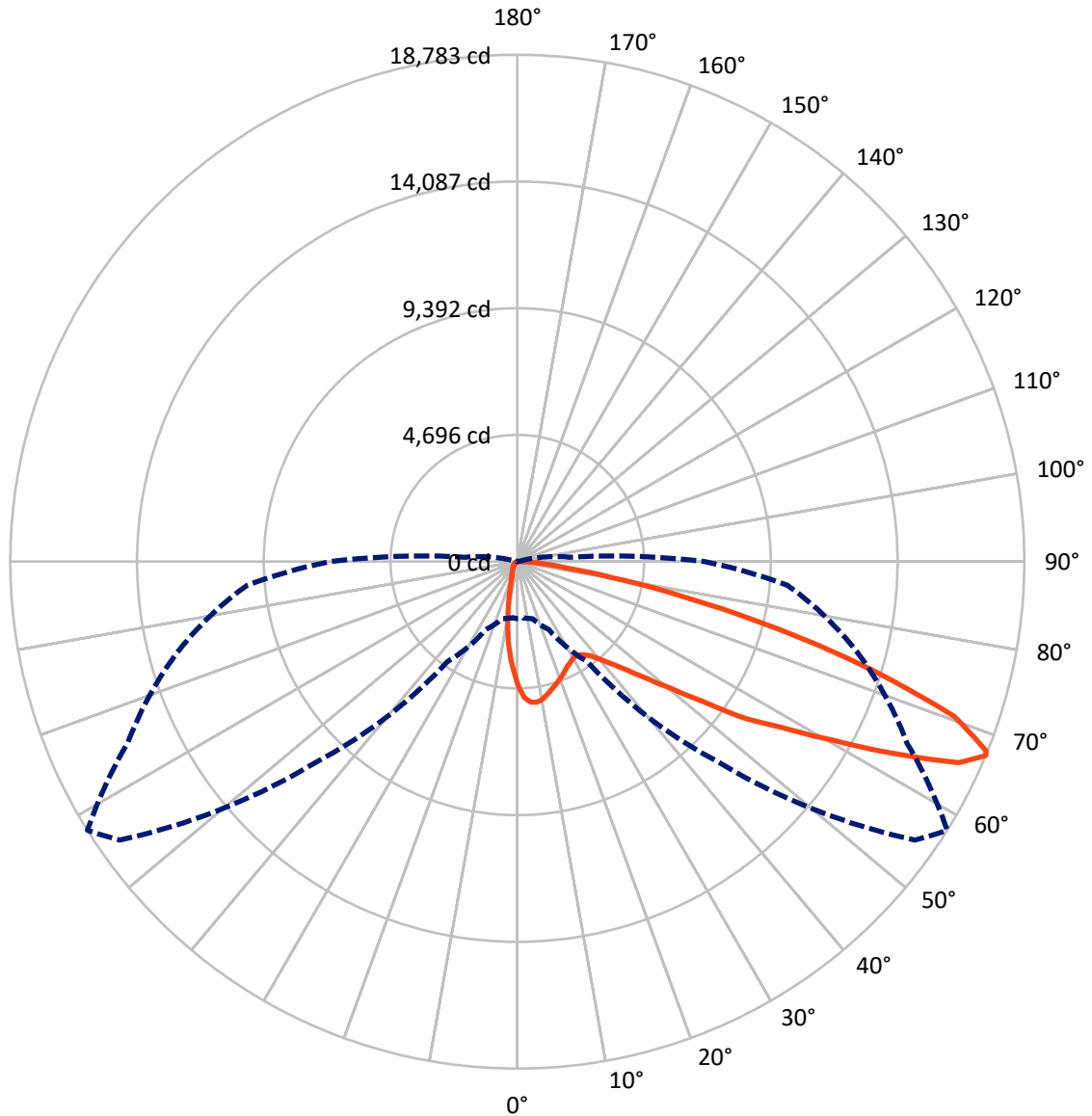
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	1255.5	0.0	1255.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	16142.5	0.0	16142.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	17398.0	0.0	17398.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.3	2.2
10°-20°	808.3	4.6
20°-30°	1095.3	6.3
30°-40°	1519.1	8.7
40°-50°	2422.8	13.9
50°-60°	4188.1	24.1
60°-70°	4784.1	27.5
70°-80°	1994.5	11.5
80°-90°	211.5	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°	17398.0	100.0
0°-180°	17398.0	100.0

**Coefficient of Utilization**



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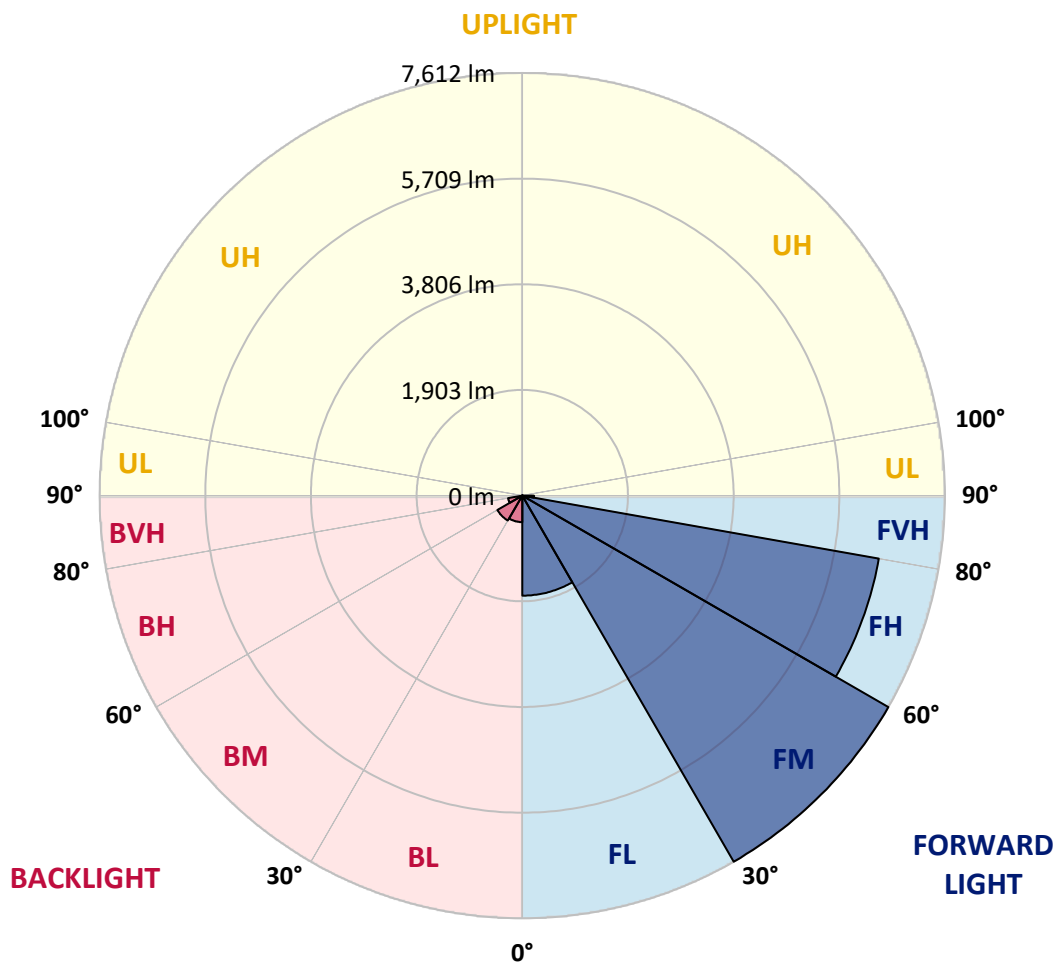
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.1	10.4			
FM (30°-60°)	7612.4	43.8			
FH (60°-80°)	6519.1	37.5			G3/7500
FVH (80°-90°)	209.9	1.2			G2/225
BL (0°-30°)	476.8	2.7	B1/500		
BM (30°-60°)	517.7	3.0	B1/1000		
BH (60°-80°)	259.6	1.5	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: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1
2.5°	5352.6	5360.8	5330.5	5306.1	5243.3	5175.9	5086.4	5038.7	4957.3	4816.7	4660.9
5°	5478.2	5488.7	5484.0	5478.2	5453.8	5388.7	5274.7	5232.9	5113.1	4884.1	4602.7
7.5°	5199.2	5237.5	5242.2	5287.5	5330.5	5336.4	5293.3	5261.9	5151.5	4882.9	4499.3
10°	4829.5	4855.0	4892.2	4944.6	5048.0	5134.1	5175.9	5171.3	5107.3	4846.9	4378.4
12.5°	4456.3	4470.2	4527.2	4616.7	4743.4	4889.9	5001.5	5023.6	5024.8	4803.9	4277.2
15°	4135.4	4129.6	4173.7	4277.2	4455.1	4638.8	4838.8	4873.6	4929.4	4762.0	4183.0
17.5°	3861.0	3891.2	3898.2	4012.1	4176.1	4414.4	4669.0	4730.6	4842.2	4726.0	4105.2
20°	3691.3	3707.5	3722.7	3786.6	3934.3	4185.4	4509.7	4594.6	4760.9	4693.4	4018.0
22.5°	3641.3	3651.7	3639.0	3658.7	3763.3	3986.6	4336.5	4449.3	4683.0	4663.2	3947.0
25°	3679.6	3690.1	3659.9	3636.6	3672.7	3825.0	4169.1	4306.3	4620.2	4657.4	3893.6
27.5°	3772.6	3792.4	3750.6	3708.7	3687.8	3737.8	4037.7	4197.0	4577.2	4685.3	3869.1
30°	3918.0	3929.6	3898.2	3847.1	3799.4	3749.4	3969.1	4121.4	4565.5	4750.4	3866.8
32.5°	4076.1	4100.5	4083.1	4049.3	3987.7	3869.1	3988.9	4123.8	4593.4	4844.6	3895.9
35°	4271.4	4299.3	4315.6	4308.6	4229.6	4081.9	4114.5	4228.4	4667.9	5017.8	3974.9
37.5°	4463.2	4487.7	4579.5	4610.9	4541.1	4401.6	4358.6	4434.2	4831.8	5244.5	4117.9
40°	4683.0	4715.5	4844.6	4964.3	4930.6	4784.1	4705.1	4767.8	5082.9	5586.3	4388.8
42.5°	4893.4	4951.5	5148.0	5359.6	5391.0	5227.1	5174.8	5195.7	5454.9	6078.1	4766.7
45°	5192.2	5246.8	5500.3	5787.4	5935.1	5807.2	5753.7	5750.2	5965.3	6769.8	5379.4
47.5°	5623.5	5672.3	5971.1	6254.8	6517.6	6535.0	6433.9	6468.7	6607.1	7579.0	6130.4
50°	6152.5	6267.6	6464.1	6759.4	7110.5	7394.2	7425.6	7379.0	7497.6	8516.1	7032.6
52.5°	6921.0	6965.2	7145.4	7388.3	7799.9	8281.2	8654.4	8590.5	8553.3	9409.0	7944.1
55°	7494.1	7553.4	7833.6	8167.3	8770.7	9405.5	10214.6	10236.7	9767.0	10267.0	8835.8
57.5°	7320.9	7411.6	7836.0	8506.8	9833.3	10993.6	11595.8	11610.9	10890.1	11100.5	9842.6
60°	6431.5	6474.5	7082.6	7977.8	9924.0	12714.2	13554.8	13432.7	12033.0	12033.0	10732.0
62.5°	4560.9	4628.3	5121.3	6438.5	8962.5	13311.8	15900.9	15648.6	13607.1	12924.7	11262.1
65°	2914.6	2849.5	3176.2	4064.5	6676.8	12429.4	17943.6	17958.7	15088.3	13281.6	10972.7
67°	2111.3	2085.7	2179.9	2778.6	4527.2	10448.3	17986.6	18783.0	15939.3	13056.0	10047.2
67.5°	1931.1	1950.8	2019.4	2506.6	4113.3	9507.8	17791.3	18734.2	16131.1	12920.0	9712.4
70°	1463.7	1430.0	1504.4	1773.0	2465.9	5997.9	15304.5	17182.1	15892.8	11570.2	7760.4
72.5°	1076.6	1073.1	1176.6	1449.8	1898.5	3194.8	11488.9	13776.9	12984.0	8810.2	4886.4
75°	726.6	759.2	924.3	1211.4	1720.7	2071.8	7832.5	9994.9	9013.7	5002.7	1997.4
77.5°	413.9	416.2	595.3	973.1	1545.1	1667.2	4641.1	6367.6	4771.3	1663.7	592.9
80°	179.0	196.5	295.3	706.9	1281.2	1476.5	2661.2	3499.4	1929.9	352.3	191.8
82.5°	66.3	77.9	130.2	434.8	934.7	1216.1	1607.9	1670.7	654.5	124.4	119.7
85°	0.0	2.3	47.7	203.5	487.1	542.9	1074.2	990.5	289.5	59.3	77.9
87.5°	0.0	0.0	0.0	20.9	63.9	202.3	333.7	372.0	69.8	20.9	18.6
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°	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1
2.5°	4577.2	4501.6	4312.1	4122.6	3981.9	3864.5	3687.8	3591.3	3540.1	3464.6	3469.2
5°	4462.1	4308.6	3974.9	3629.6	3350.6	3078.6	2753.0	2621.7	2511.2	2448.4	2406.6
7.5°	4291.2	4064.5	3570.4	3110.0	2681.0	2205.5	1848.5	1610.2	1449.8	1390.5	1333.5
10°	4104.0	3802.9	3160.0	2521.7	1926.4	1435.8	1133.5	915.0	837.1	765.0	772.0
12.5°	3930.8	3564.5	2783.3	1990.4	1349.8	912.6	711.5	622.0	596.4	588.3	588.3
15°	3788.9	3336.7	2378.7	1496.3	925.4	655.7	569.7	545.3	536.0	533.6	533.6
17.5°	3637.8	3120.4	2013.6	1105.6	673.1	548.7	519.7	503.4	499.9	497.6	497.6
20°	3502.9	2903.0	1667.2	823.1	544.1	494.1	475.5	465.0	461.6	459.2	460.4
22.5°	3375.0	2710.0	1341.6	622.0	479.0	449.9	431.3	420.9	413.9	408.1	409.2
25°	3261.1	2524.0	1078.9	509.2	431.3	405.7	387.1	372.0	356.9	349.9	348.8
27.5°	3180.9	2361.2	840.6	436.0	388.3	360.4	337.2	318.6	298.8	288.3	286.0
30°	3114.6	2196.2	665.0	384.8	345.3	318.6	289.5	262.7	241.8	231.4	226.7
32.5°	3071.6	2039.2	524.3	343.0	309.3	276.7	244.1	217.4	194.2	183.7	181.4
35°	3064.6	1907.8	429.0	308.1	276.7	241.8	208.1	179.0	159.3	148.8	146.5
37.5°	3114.6	1806.7	359.2	280.2	250.0	211.6	174.4	147.7	130.2	122.1	120.9
40°	3248.3	1742.7	311.6	256.9	225.5	183.7	148.8	125.6	108.1	100.0	100.0
42.5°	3502.9	1745.1	280.2	234.8	201.1	157.0	126.7	104.6	89.5	82.5	80.2
45°	3900.5	1824.1	253.4	212.8	177.9	136.0	108.1	86.0	70.9	65.1	65.1
47.5°	4433.0	1981.1	230.2	190.7	157.0	116.3	91.8	69.8	57.0	51.2	51.2
50°	5129.4	2233.4	210.4	172.1	139.5	100.0	74.4	57.0	44.2	39.5	38.4
52.5°	5857.2	2544.9	187.2	155.8	119.7	84.9	60.5	44.2	33.7	30.2	29.1
55°	6660.6	2849.5	165.1	139.5	97.7	70.9	47.7	34.9	24.4	20.9	20.9
57.5°	7470.9	3148.3	138.3	116.3	76.7	52.3	37.2	25.6	16.3	12.8	12.8
60°	8156.8	3244.8	117.4	94.2	58.1	37.2	26.7	16.3	9.3	5.8	5.8
62.5°	8251.0	2919.3	98.8	72.1	41.9	25.6	14.0	9.3	3.5	2.3	2.3
65°	7739.5	2371.7	82.5	54.6	27.9	12.8	5.8	3.5	1.2	0.0	0.0
67°	6934.9	1922.9	67.4	40.7	19.8	8.1	3.5	1.2	0.0	0.0	0.0
67.5°	6729.2	1833.4	65.1	38.4	17.4	7.0	2.3	1.2	0.0	0.0	0.0
70°	5280.5	1373.0	46.5	23.3	10.5	4.7	0.0	0.0	0.0	0.0	0.0
72.5°	3282.0	776.6	33.7	14.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0
75°	1240.5	272.0	23.3	9.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	386.0	103.5	14.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	130.2	39.5	9.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	80.2	16.3	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	2.3	1.2	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)