

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: P455795

Luminaire Tested: **GALN-SA7A-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455795
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-SA7A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 23996 lumens
Efficiency: N/A
Efficacy: 111.6 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

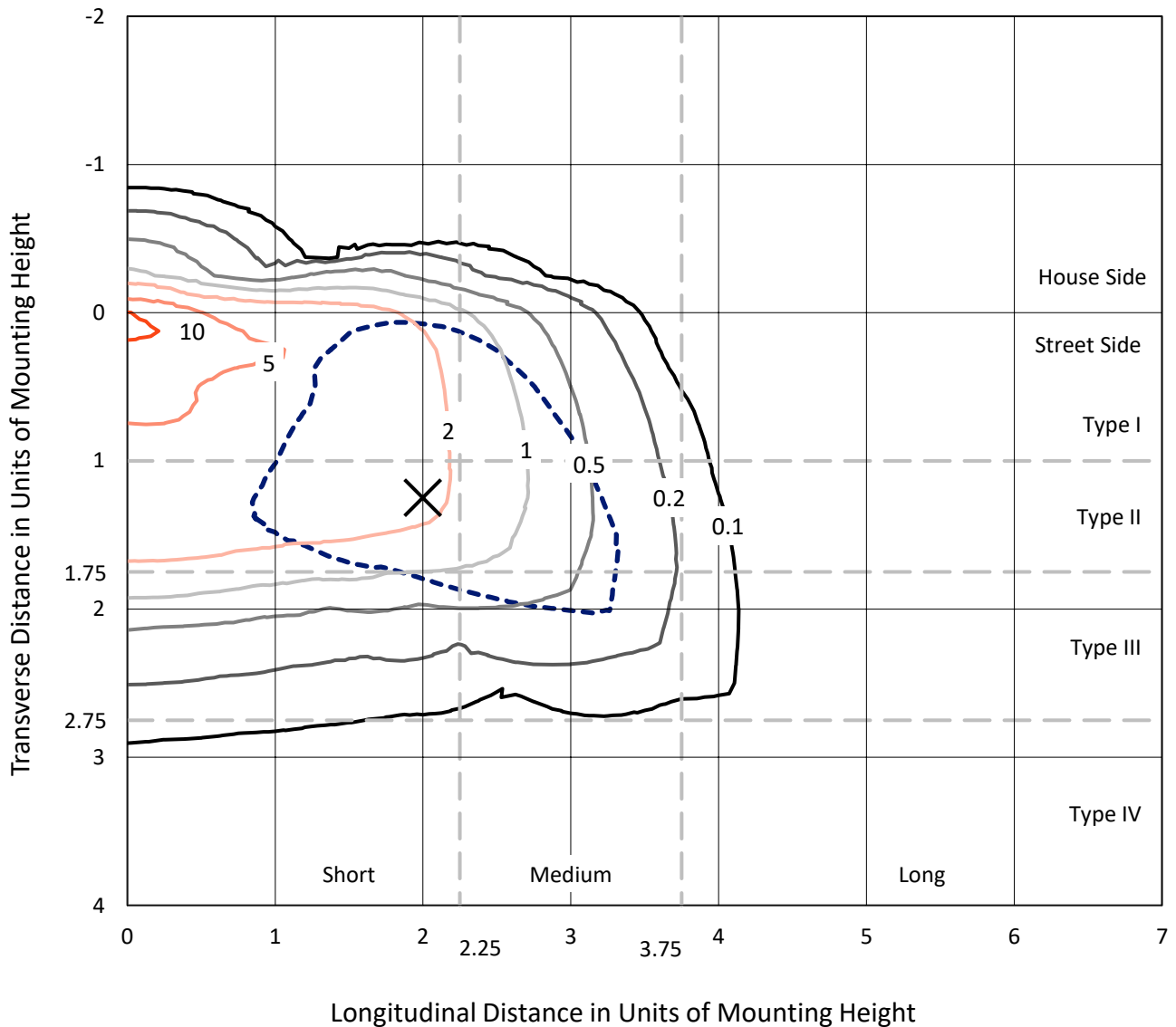
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

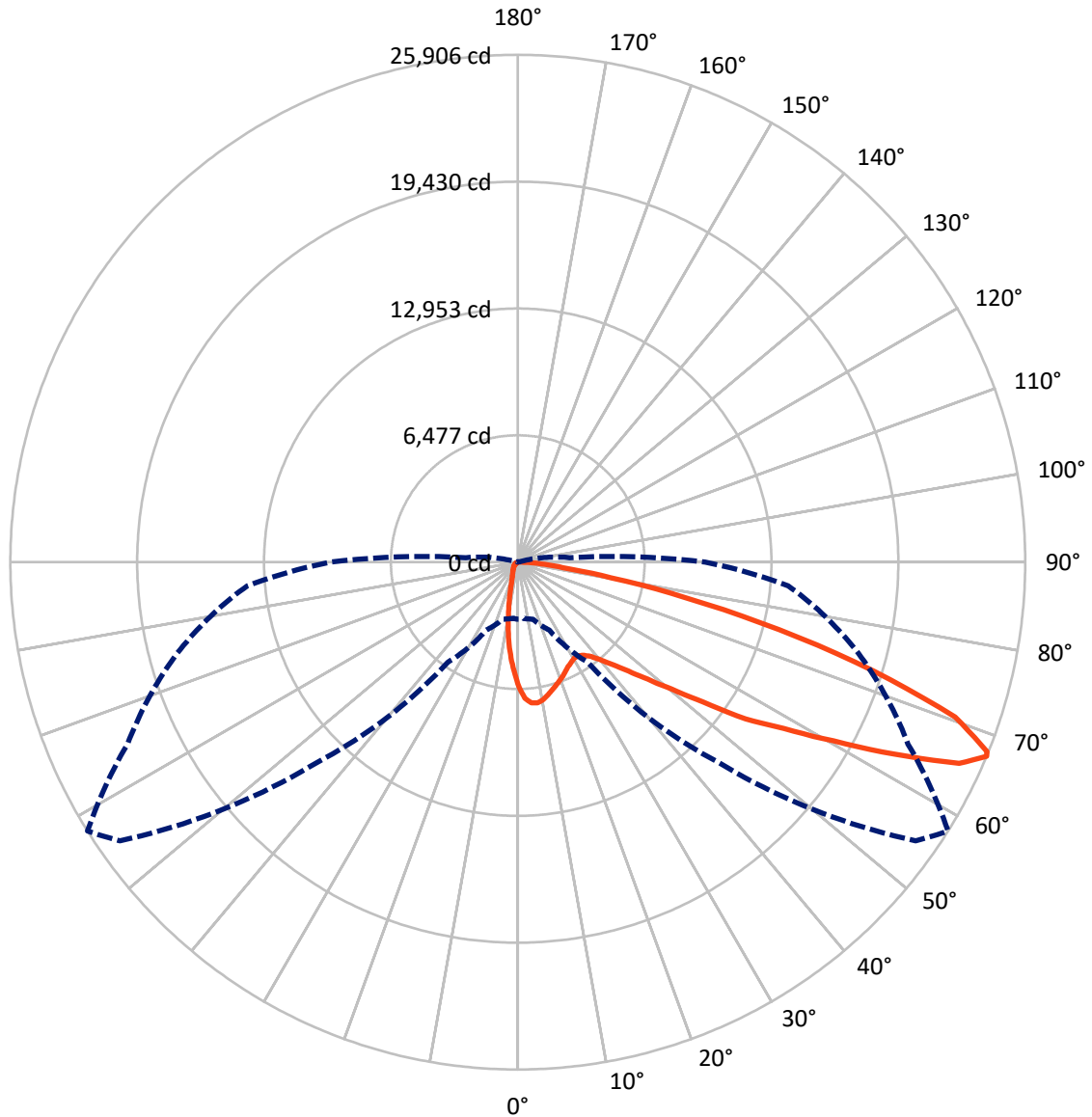
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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
House Side	Lumens	1731.7	0.0	1731.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22264.3	0.0	22264.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	23996.0	0.0	23996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.2	2.2
10°-20°	1114.8	4.6
20°-30°	1510.7	6.3
30°-40°	2095.2	8.7
40°-50°	3341.7	13.9
50°-60°	5776.4	24.1
60°-70°	6598.4	27.5
70°-80°	2750.9	11.5
80°-90°	291.7	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°	23996.0	100.0
0°-180°	23996.0	100.0

Coefficient of Utilization



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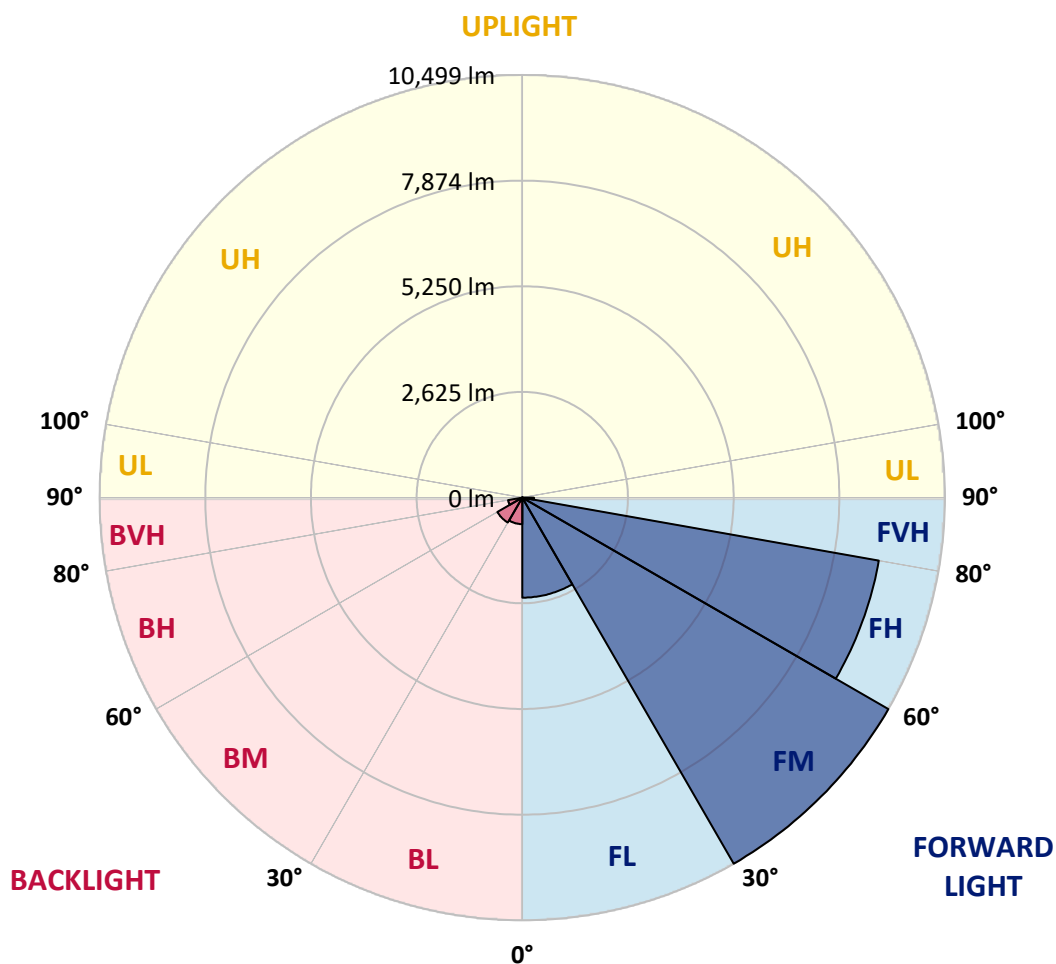
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2484.2	10.4			
FM	(30°-60°)	10499.3	43.8			
FH	(60°-80°)	8991.3	37.5			G4/12000
FVH	(80°-90°)	289.6	1.2			G3/500
BL	(0°-30°)	657.6	2.7	B2/1000		
BM	(30°-60°)	714.0	3.0	B1/1000		
BH	(60°-80°)	358.0	1.5	B1/500		G1/500
BVH	(80°-90°)	2.1	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°	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1
2.5°	7382.6	7393.8	7352.1	7318.4	7231.8	7138.8	7015.4	6949.6	6837.4	6643.3	6428.5
5°	7555.7	7570.2	7563.8	7555.7	7522.1	7432.3	7275.1	7217.4	7052.2	6736.3	6348.3
7.5°	7170.9	7223.8	7230.2	7292.8	7352.1	7360.1	7300.8	7257.5	7105.1	6734.7	6205.6
10°	6661.0	6696.3	6747.6	6819.7	6962.4	7081.1	7138.8	7132.4	7044.2	6685.0	6038.8
12.5°	6146.2	6165.5	6244.1	6367.5	6542.3	6744.4	6898.3	6928.8	6930.4	6625.7	5899.3
15°	5703.7	5695.7	5756.6	5899.3	6144.6	6398.0	6673.8	6721.9	6798.9	6568.0	5769.4
17.5°	5325.3	5366.9	5376.6	5533.7	5759.8	6088.5	6439.7	6524.7	6678.6	6518.3	5662.0
20°	5091.1	5113.6	5134.4	5222.6	5426.3	5772.6	6220.0	6337.1	6566.4	6473.4	5541.7
22.5°	5022.2	5036.6	5019.0	5046.2	5190.6	5498.4	5981.1	6136.6	6458.9	6431.7	5443.9
25°	5075.1	5089.5	5047.8	5015.8	5065.5	5275.5	5750.2	5939.4	6372.3	6423.7	5370.2
27.5°	5203.4	5230.6	5172.9	5115.2	5086.3	5155.3	5569.0	5788.7	6313.0	6462.1	5336.5
30°	5403.8	5419.9	5376.6	5306.0	5240.3	5171.3	5474.4	5684.4	6297.0	6551.9	5333.3
32.5°	5621.9	5655.6	5631.5	5585.0	5500.0	5336.5	5501.6	5687.6	6335.5	6681.8	5373.4
35°	5891.3	5929.8	5952.2	5942.6	5833.6	5629.9	5674.8	5832.0	6438.1	6920.7	5482.4
37.5°	6155.9	6189.5	6316.2	6359.5	6263.3	6070.9	6011.6	6115.8	6664.2	7233.4	5679.6
40°	6458.9	6503.8	6681.8	6847.0	6800.5	6598.4	6489.4	6576.0	7010.5	7704.9	6053.2
42.5°	6749.2	6829.3	7100.3	7392.2	7435.5	7209.4	7137.2	7166.1	7523.7	8383.1	6574.4
45°	7161.3	7236.6	7586.2	7982.3	8185.9	8009.5	7935.8	7931.0	8227.6	9337.2	7419.4
47.5°	7756.2	7823.5	8235.6	8626.9	8989.3	9013.3	8873.8	8921.9	9112.7	10453.3	8455.3
50°	8485.8	8644.5	8915.5	9322.8	9807.1	10198.3	10241.6	10177.5	10341.0	11745.7	9699.6
52.5°	9545.7	9606.6	9855.2	10190.3	10757.9	11421.8	11936.5	11848.3	11797.0	12977.2	10956.8
55°	10336.2	10418.0	10804.4	11264.6	12096.9	12972.4	14088.4	14118.9	13471.1	14160.6	12186.7
57.5°	10097.3	10222.4	10807.6	11732.9	13562.5	15162.8	15993.4	16014.2	15020.1	15310.3	13575.3
60°	8870.6	8929.9	9768.6	11003.3	13687.6	17536.0	18695.3	18526.9	16596.3	16596.3	14802.0
62.5°	6290.6	6383.6	7063.5	8880.2	12361.4	18360.2	21931.2	21583.2	18767.5	17826.2	15533.2
65°	4020.0	3930.2	4380.8	5605.9	9209.0	17143.1	24748.6	24769.4	20810.3	18318.5	15133.9
67°	2912.0	2876.7	3006.6	3832.4	6244.1	14410.7	24807.9	25906.3	21984.1	18007.4	13857.5
67.5°	2663.4	2690.7	2785.3	3457.2	5673.2	13113.5	24538.5	25838.9	22248.7	17819.8	13395.7
70°	2018.8	1972.3	2074.9	2445.4	3401.0	8272.5	21108.6	23698.3	21920.0	15958.1	10703.4
72.5°	1484.8	1480.0	1622.8	1999.6	2618.5	4406.4	15845.9	19001.6	17908.0	12151.4	6739.5
75°	1002.2	1047.1	1274.8	1670.9	2373.2	2857.5	10802.8	13785.4	12432.0	6899.9	2754.8
77.5°	570.8	574.1	821.0	1342.1	2131.1	2299.4	6401.2	8782.4	6580.8	2294.6	817.8
80°	246.9	271.0	407.3	974.9	1767.1	2036.5	3670.4	4826.6	2661.8	485.9	264.6
82.5°	91.4	107.4	179.6	599.7	1289.2	1677.3	2217.7	2304.2	902.8	171.6	165.2
85°	0.0	3.2	65.7	280.6	671.9	748.8	1481.6	1366.2	399.3	81.8	107.4
87.5°	0.0	0.0	0.0	28.9	88.2	279.0	460.2	513.1	96.2	28.9	25.7
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°	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1	6361.1
2.5°	6313.0	6208.8	5947.4	5686.0	5492.0	5330.1	5086.3	4953.2	4882.7	4778.5	4784.9
5°	6154.3	5942.6	5482.4	5006.2	4621.3	4246.1	3797.1	3615.9	3463.6	3377.0	3319.3
7.5°	5918.6	5605.9	4924.4	4289.4	3697.7	3041.9	2549.6	2220.9	1999.6	1917.8	1839.2
10°	5660.4	5245.1	4358.3	3478.0	2657.0	1980.3	1563.4	1262.0	1154.5	1055.1	1064.7
12.5°	5421.5	4916.4	3838.8	2745.2	1861.7	1258.8	981.3	857.9	822.6	811.4	811.4
15°	5225.8	4602.1	3280.8	2063.7	1276.4	904.4	785.7	752.0	739.2	736.0	736.0
17.5°	5017.4	4303.8	2777.3	1524.9	928.4	756.9	716.8	694.3	689.5	686.3	686.3
20°	4831.4	4004.0	2299.4	1135.3	750.4	681.5	655.8	641.4	636.6	633.4	635.0
22.5°	4655.0	3737.8	1850.4	857.9	660.6	620.6	594.9	580.5	570.8	562.8	564.4
25°	4497.8	3481.2	1488.1	702.3	594.9	559.6	534.0	513.1	492.3	482.7	481.1
27.5°	4387.2	3256.7	1159.3	601.3	535.6	497.1	465.0	439.4	412.1	397.7	394.5
30°	4295.8	3029.0	917.2	530.8	476.2	439.4	399.3	362.4	333.5	319.1	312.7
32.5°	4236.5	2812.6	723.2	473.0	426.5	381.6	336.7	299.9	267.8	253.4	250.1
35°	4226.8	2631.4	591.7	424.9	381.6	333.5	287.0	246.9	219.7	205.2	202.0
37.5°	4295.8	2491.9	495.5	386.4	344.8	291.8	240.5	203.6	179.6	168.4	166.8
40°	4480.2	2403.7	429.7	354.4	311.1	253.4	205.2	173.2	149.1	137.9	137.9
42.5°	4831.4	2406.9	386.4	323.9	277.4	216.5	174.8	144.3	123.5	113.8	110.6
45°	5379.8	2515.9	349.6	293.4	245.3	187.6	149.1	118.7	97.8	89.8	89.8
47.5°	6114.2	2732.4	317.5	263.0	216.5	160.4	126.7	96.2	78.6	70.6	70.6
50°	7074.7	3080.3	290.2	237.3	192.4	137.9	102.6	78.6	60.9	54.5	52.9
52.5°	8078.5	3510.1	258.2	214.9	165.2	117.1	83.4	60.9	46.5	41.7	40.1
55°	9186.5	3930.2	227.7	192.4	134.7	97.8	65.7	48.1	33.7	28.9	28.9
57.5°	10304.1	4342.3	190.8	160.4	105.8	72.2	51.3	35.3	22.4	17.6	17.6
60°	11250.2	4475.4	162.0	129.9	80.2	51.3	36.9	22.4	12.8	8.0	8.0
62.5°	11380.1	4026.4	136.3	99.4	57.7	35.3	19.2	12.8	4.8	3.2	3.2
65°	10674.6	3271.2	113.8	75.4	38.5	17.6	8.0	4.8	1.6	0.0	0.0
67°	9564.9	2652.2	93.0	56.1	27.3	11.2	4.8	1.6	0.0	0.0	0.0
67.5°	9281.1	2528.7	89.8	52.9	24.1	9.6	3.2	1.6	0.0	0.0	0.0
70°	7283.1	1893.7	64.1	32.1	14.4	6.4	0.0	0.0	0.0	0.0	0.0
72.5°	4526.7	1071.1	46.5	19.2	9.6	3.2	0.0	0.0	0.0	0.0	0.0
75°	1710.9	375.2	32.1	12.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	532.4	142.7	19.2	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	179.6	54.5	12.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	110.6	22.4	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	69.0	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	3.2	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)