

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: P455870

Luminaire Tested: **GALN-SA7A-750-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22937 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

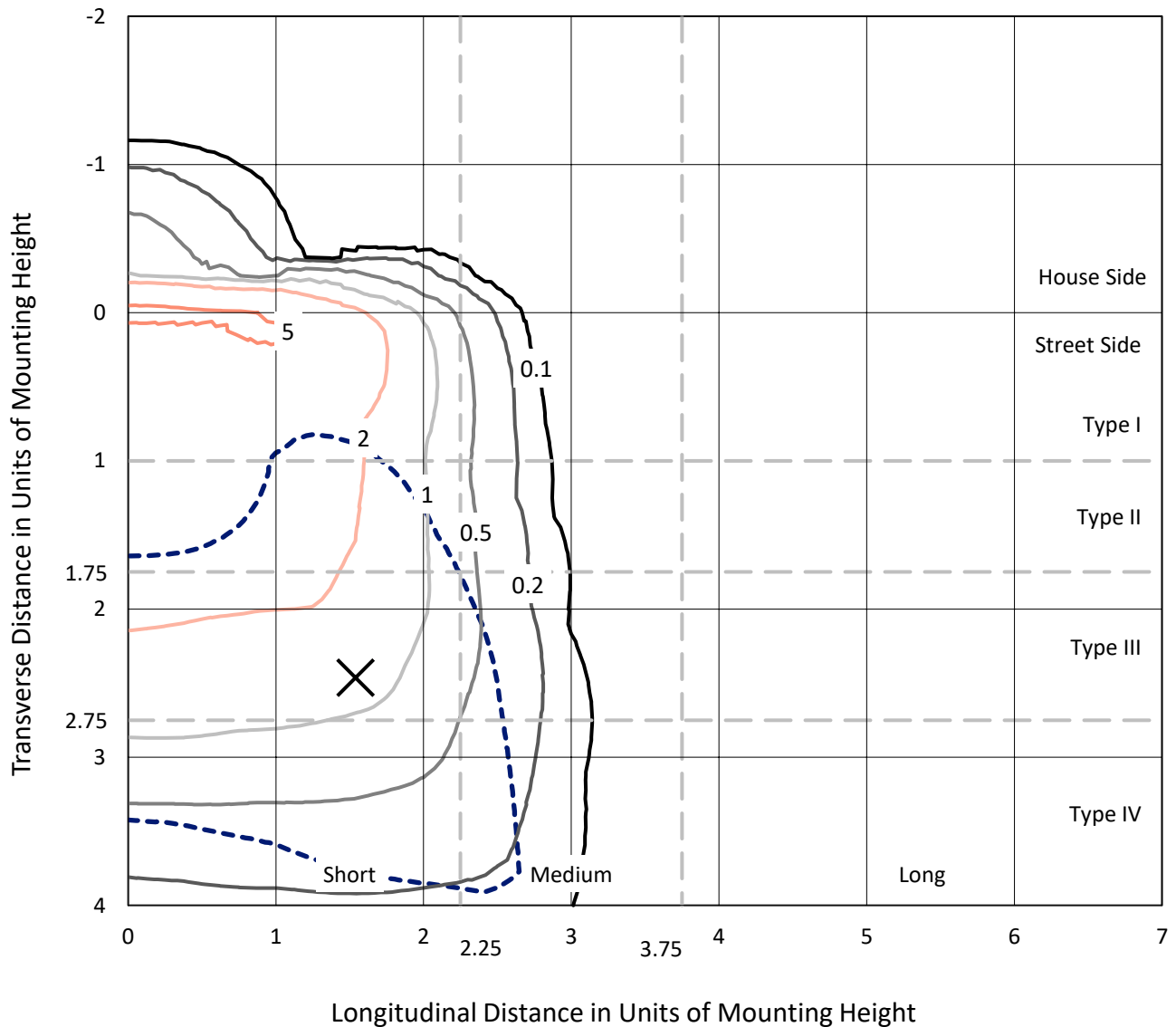
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

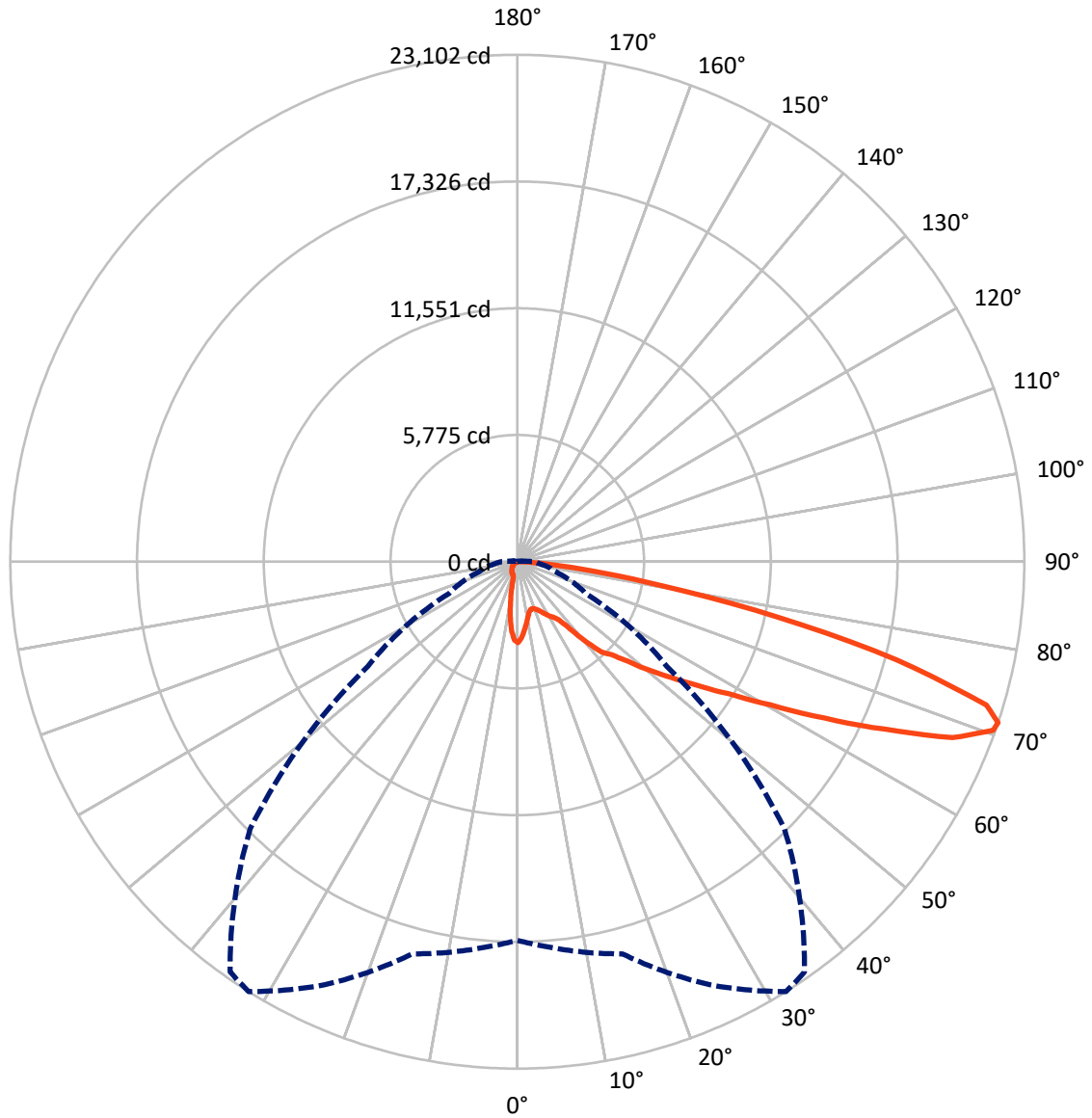
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1921.2	0.0	1921.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21015.8	0.0	21015.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	22937.0	0.0	22937.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	1.3
10°-20°	651.0	2.8
20°-30°	1012.7	4.4
30°-40°	1687.1	7.4
40°-50°	3138.3	13.7
50°-60°	5038.7	22.0
60°-70°	6777.3	29.5
70°-80°	4021.1	17.5
80°-90°	310.8	1.4
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°	22937.0	100.0
0°-180°	22937.0	100.0



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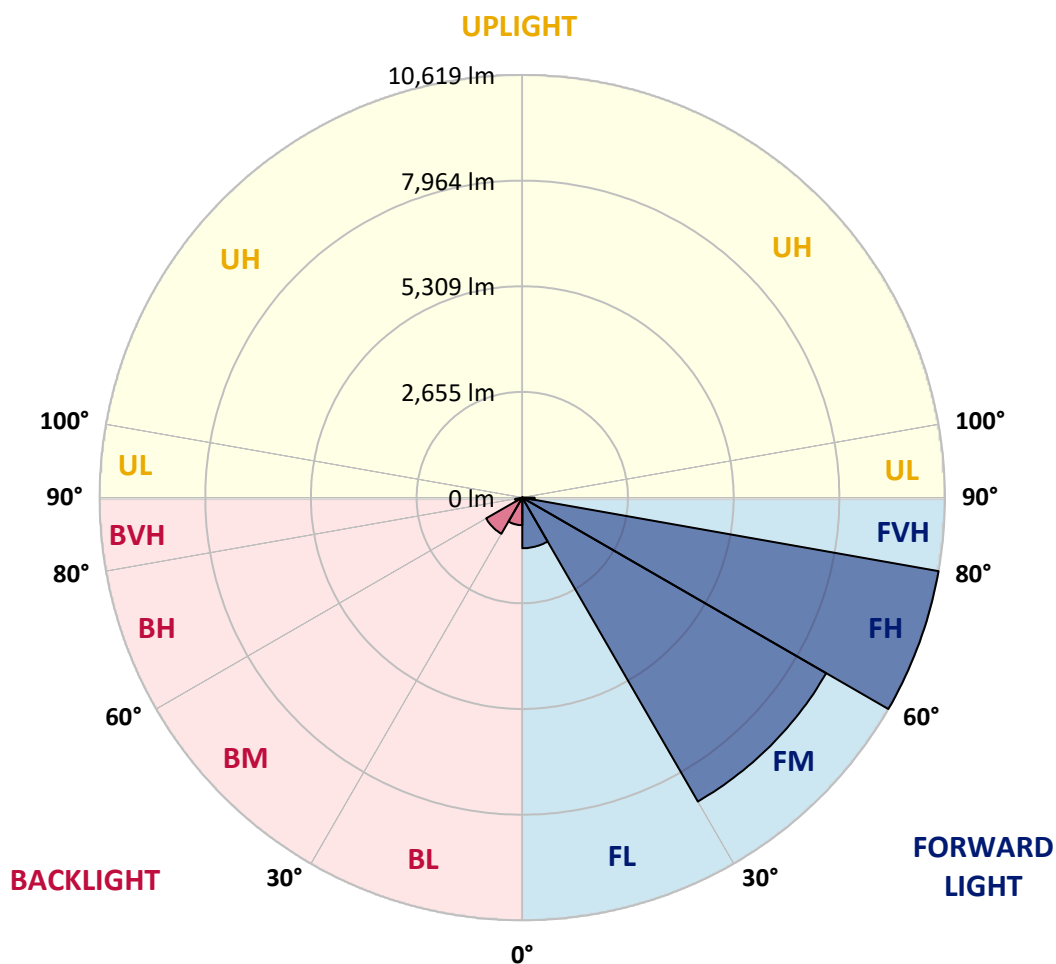
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1271.3	5.5			
FM	(30°-60°)	8816.1	38.4			
FH	(60°-80°)	10618.7	46.3			G4/12000
FVH	(80°-90°)	309.6	1.3			G3/500
BL	(0°-30°)	692.3	3.0	B2/1000		
BM	(30°-60°)	1048.1	4.6	B2/2500		
BH	(60°-80°)	179.7	0.8	B1/500		G1/500
BVH	(80°-90°)	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6
2.5°	3421.0	3456.2	3450.9	3463.3	3493.2	3505.5	3539.0	3575.9	3627.0	3662.2	3685.1
5°	3063.6	3090.0	3093.5	3155.1	3185.1	3218.5	3317.1	3424.5	3544.3	3639.3	3702.7
7.5°	2681.5	2695.6	2723.8	2804.8	2880.5	2913.9	3063.6	3250.2	3438.6	3616.4	3730.9
10°	2366.4	2382.2	2433.3	2519.5	2590.0	2634.0	2841.7	3075.9	3340.0	3604.1	3771.4
12.5°	2186.8	2195.6	2214.9	2292.4	2382.2	2429.7	2653.3	2921.0	3260.8	3609.4	3840.0
15°	2174.4	2170.9	2148.0	2179.7	2260.7	2310.0	2528.3	2815.3	3190.4	3627.0	3921.0
17.5°	2239.6	2230.8	2176.2	2176.2	2243.1	2283.6	2475.5	2759.0	3155.1	3667.5	4035.5
20°	2339.9	2325.9	2236.1	2229.0	2294.2	2336.4	2507.2	2762.5	3162.2	3743.2	4188.7
22.5°	2466.7	2450.9	2315.3	2318.8	2389.2	2431.5	2598.8	2825.9	3206.2	3836.5	4352.4
25°	2632.2	2614.6	2454.4	2447.3	2521.3	2558.3	2734.3	2938.6	3267.8	3952.7	4567.2
27.5°	2852.3	2815.3	2623.4	2612.9	2692.1	2739.6	2898.1	3090.0	3377.0	4113.0	4856.0
30°	3033.7	2993.2	2810.0	2781.9	2866.4	2903.4	3067.1	3294.2	3591.8	4392.9	5255.6
32.5°	3271.3	3211.5	2996.7	2922.7	3012.5	3060.1	3311.8	3674.5	3910.5	4688.7	5731.0
35°	3806.6	3769.6	3507.3	3248.5	3243.2	3303.0	3672.8	4058.4	4238.0	5150.0	6378.9
37.5°	4572.5	4546.1	4267.9	3921.0	3820.7	3792.5	4111.2	4480.9	4760.9	5783.8	7132.5
40°	5461.6	5400.0	5144.7	4850.7	4720.4	4637.6	4628.8	5109.5	5444.0	6644.8	7917.8
42.5°	6099.0	5986.3	5676.4	5655.3	5627.1	5540.9	5290.8	6028.6	6326.1	7570.9	8757.6
45°	6768.1	6597.3	6136.0	6056.7	6046.2	6040.9	6290.9	7116.7	7287.5	8574.5	9620.4
47.5°	7287.5	7151.9	6773.3	6738.1	6782.1	6901.9	7613.2	8271.7	8236.5	9468.9	10344.0
50°	7979.4	7877.3	7456.5	7523.4	7750.5	7946.0	9104.5	9530.6	9016.5	10173.2	10870.4
52.5°	8796.4	8608.0	8217.1	8398.5	8747.1	9072.8	10687.3	10632.8	9564.0	10703.2	11263.1
55°	9504.2	9370.3	9236.5	9424.9	9946.1	10352.8	12117.0	11458.5	9961.9	11129.3	11435.6
57.5°	10701.4	10669.7	10532.4	10724.3	11356.4	11779.0	13397.0	12099.4	10217.2	11351.1	11233.1
60°	12472.7	12421.6	12166.3	12411.0	13235.0	13898.8	14576.7	12675.1	10275.3	11264.8	10650.4
62.5°	14603.1	14428.8	14210.5	14571.4	15701.8	15994.0	15687.7	13016.7	10058.8	10578.2	9245.3
65°	16592.7	16413.1	16418.4	17179.0	18409.7	18608.6	16983.5	12965.7	9424.9	8858.0	6819.1
67.5°	18115.7	18085.7	18300.5	19784.8	21394.0	21256.7	18142.1	12201.5	7546.3	5741.6	3623.5
70°	18193.1	18251.2	18867.5	21372.9	23006.8	22788.5	18043.5	9917.9	4704.5	2641.0	1427.9
71°	17256.4	17647.3	18499.5	21323.6	23101.9	22818.4	17212.4	8306.9	3450.9	1841.7	1030.0
72.5°	14705.2	14911.2	16752.9	20068.2	22350.1	21744.4	15104.9	5822.6	2209.7	1126.8	591.6
75°	8099.1	8606.2	11219.1	15744.0	17876.2	17344.5	9844.0	2766.0	1102.2	616.2	244.7
77.5°	3855.9	3757.3	5474.0	9363.3	12120.5	12092.4	4959.8	1229.0	642.6	417.3	123.2
80°	1102.2	1239.5	2095.2	4451.0	6729.3	6803.3	1905.1	593.3	445.5	325.7	63.4
82.5°	332.8	339.8	769.4	1968.4	3347.1	3155.1	714.8	302.8	320.4	258.8	37.0
85°	58.1	72.2	227.1	693.7	1276.5	968.4	179.6	144.4	211.3	170.8	21.1
87.5°	3.5	5.3	75.7	79.2	112.7	65.1	31.7	21.1	45.8	45.8	12.3
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°	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6	3688.6
2.5°	3701.0	3711.5	3704.5	3688.6	3662.2	3630.5	3588.3	3553.1	3523.1	3507.3	3526.6
5°	3723.8	3737.9	3702.7	3623.5	3503.8	3373.5	3225.6	3111.1	3021.3	2993.2	2982.6
7.5°	3759.1	3767.9	3672.8	3496.7	3243.2	2935.1	2665.7	2438.5	2262.5	2209.7	2132.2
10°	3804.8	3799.6	3620.0	3292.5	2847.0	2384.0	1966.7	1656.8	1422.6	1338.1	1331.1
12.5°	3875.3	3847.1	3553.1	3014.3	2375.2	1769.5	1253.6	980.7	832.8	783.5	772.9
15°	3963.3	3896.4	3447.4	2688.6	1818.8	1142.7	772.9	690.2	670.8	667.3	663.8
17.5°	4067.2	3961.5	3308.3	2288.9	1278.3	741.2	646.2	644.4	646.2	642.6	640.9
20°	4208.0	4030.2	3142.8	1815.3	845.1	625.0	616.2	616.2	618.0	616.2	616.2
22.5°	4357.7	4111.2	2938.6	1385.7	637.4	593.3	591.6	595.1	598.6	596.9	596.9
25°	4542.6	4216.8	2669.2	949.0	570.5	566.9	568.7	575.7	582.8	584.5	582.8
27.5°	4810.2	4347.1	2380.4	653.2	522.9	526.4	544.1	561.7	572.2	574.0	574.0
30°	5111.3	4491.5	2003.7	530.0	484.2	484.2	505.3	538.8	561.7	565.2	566.9
32.5°	5498.6	4658.8	1586.4	477.1	447.2	443.7	463.1	503.6	545.8	558.1	558.1
35°	5977.5	4856.0	1179.7	443.7	420.8	412.0	422.6	456.0	510.6	545.8	549.3
37.5°	6539.2	5042.6	862.7	413.8	396.2	383.8	390.9	417.3	461.3	514.1	528.2
40°	7058.6	5208.1	644.4	389.1	371.5	362.7	368.0	380.3	417.3	466.6	475.4
42.5°	7625.5	5336.6	512.4	362.7	346.9	343.3	343.3	348.6	373.3	401.4	403.2
45°	8190.7	5382.4	429.6	331.0	320.4	324.0	322.2	318.7	329.2	325.7	325.7
47.5°	8593.9	5327.8	355.7	301.1	301.1	306.4	297.6	285.2	279.9	258.8	260.6
50°	8870.3	5128.9	292.3	265.9	279.9	287.0	269.4	250.0	230.6	207.8	202.5
52.5°	8984.8	4775.0	239.5	220.1	248.3	257.1	235.9	213.0	183.1	163.7	158.5
55°	8910.8	4338.3	199.0	179.6	209.5	220.1	199.0	172.5	139.1	118.0	114.4
57.5°	8585.1	3817.2	169.0	142.6	167.3	174.3	160.2	132.1	98.6	77.5	77.5
60°	8021.7	3278.4	137.3	112.7	125.0	135.6	121.5	95.1	66.9	47.5	44.0
62.5°	6879.0	2662.2	110.9	88.0	88.0	96.8	84.5	68.7	42.3	24.6	22.9
65°	4966.9	1825.8	88.0	65.1	63.4	63.4	52.8	45.8	24.6	10.6	7.0
67.5°	2699.1	1030.0	70.4	49.3	44.0	42.3	33.5	26.4	10.6	1.8	0.0
70°	1061.7	396.2	54.6	33.5	28.2	26.4	17.6	12.3	7.0	0.0	0.0
71°	720.1	272.9	47.5	28.2	22.9	19.4	14.1	10.6	5.3	0.0	0.0
72.5°	412.0	169.0	37.0	21.1	17.6	14.1	10.6	7.0	5.3	0.0	0.0
75°	179.6	86.3	22.9	15.8	12.3	8.8	7.0	5.3	1.8	0.0	0.0
77.5°	91.6	47.5	15.8	12.3	7.0	5.3	3.5	1.8	0.0	0.0	0.0
80°	51.1	24.6	10.6	7.0	5.3	3.5	1.8	1.8	0.0	0.0	0.0
82.5°	28.2	14.1	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.6	8.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	3.5	0.0	0.0	0.0	0.0	1.8	1.8	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)