

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: P459466

Luminaire Tested: **GALN-SA9A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459466
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-SA9A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 27810 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

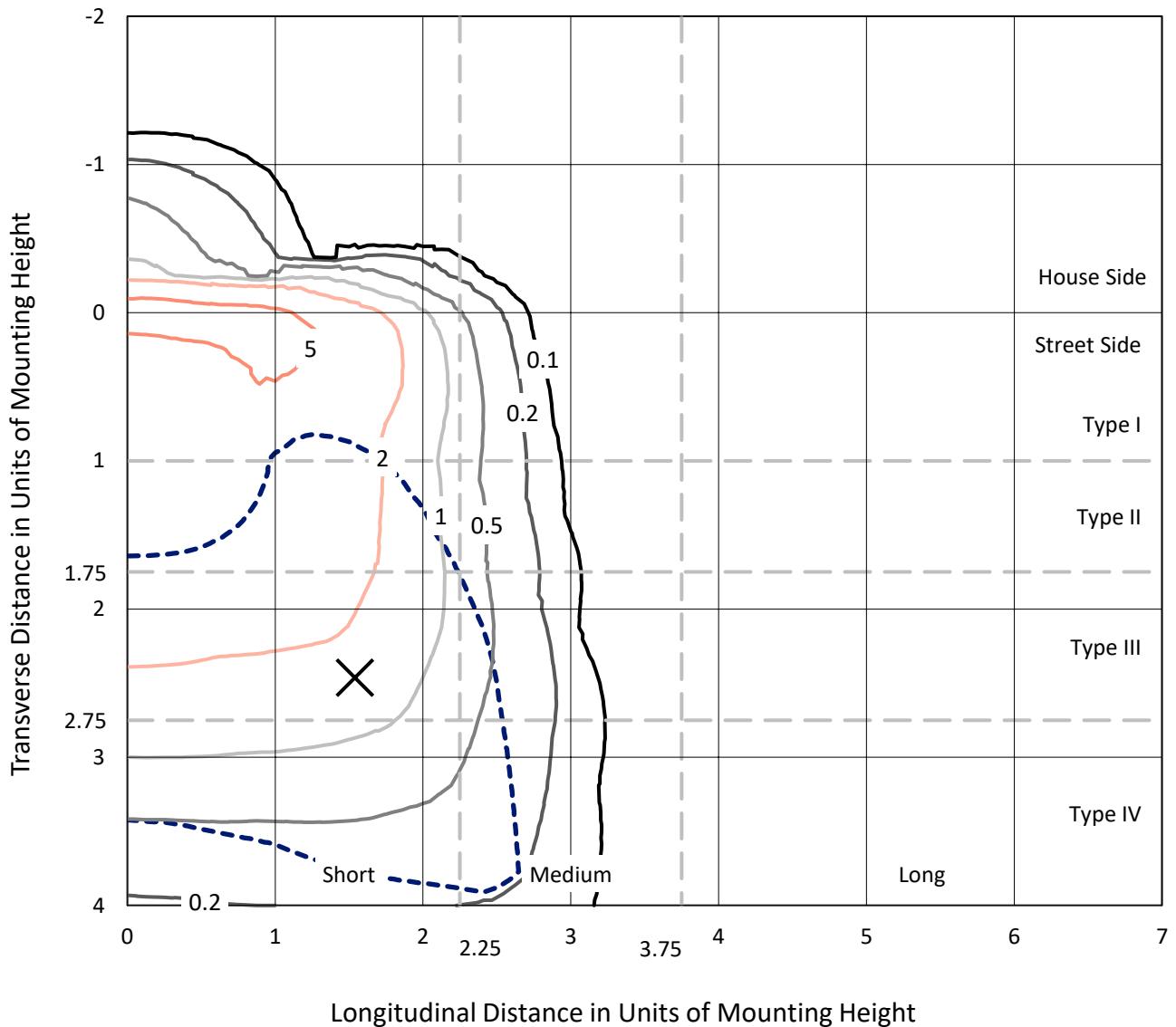
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

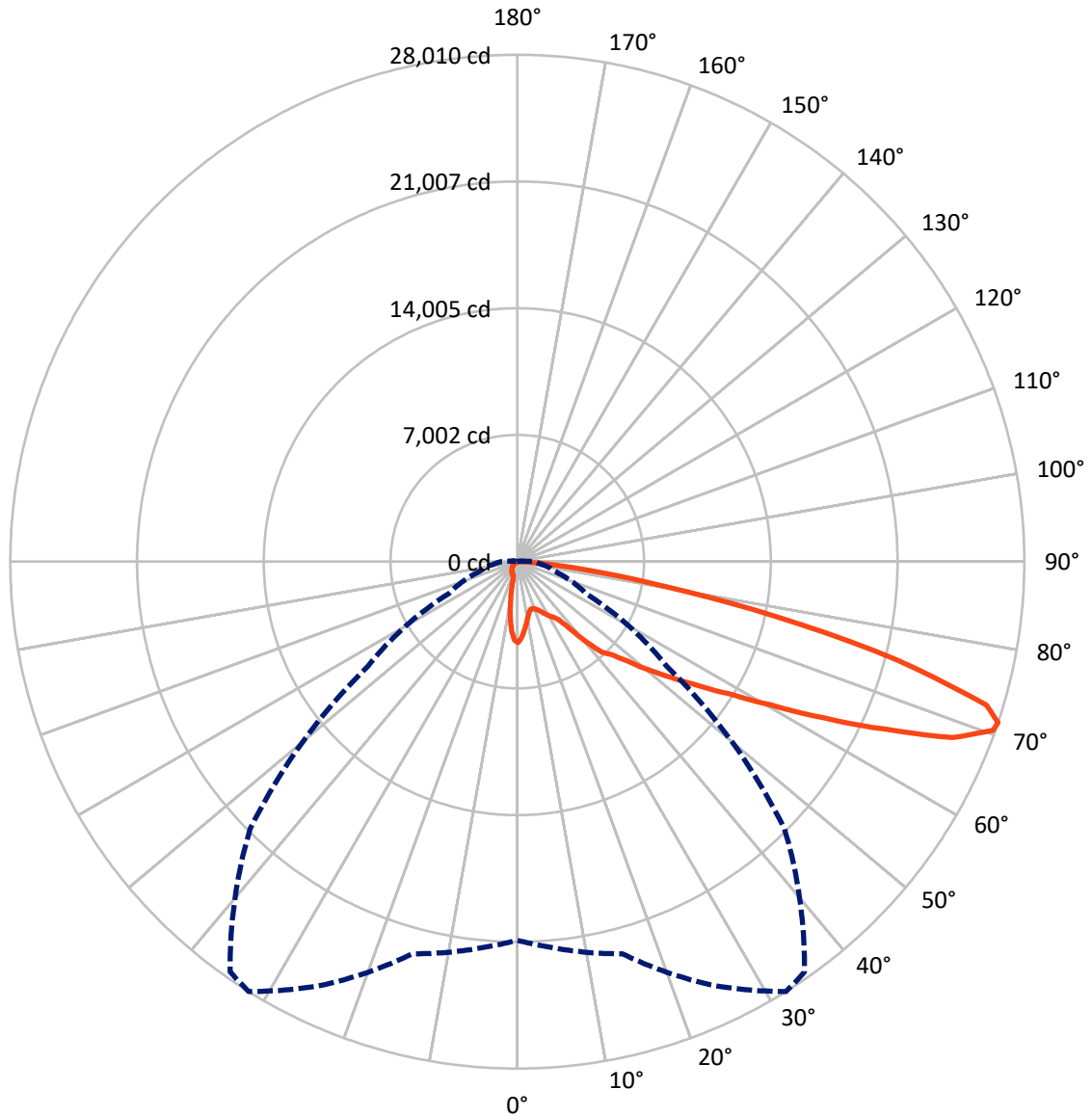
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	2329.4	0.0	2329.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25480.6	0.0	25480.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	27810.0	0.0	27810.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.3
10°-20°	789.3	2.8
20°-30°	1227.8	4.4
30°-40°	2045.6	7.4
40°-50°	3805.1	13.7
50°-60°	6109.2	22.0
60°-70°	8217.2	29.5
70°-80°	4875.4	17.5
80°-90°	376.8	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°	27810.0	100.0
0°-180°	27810.0	100.0



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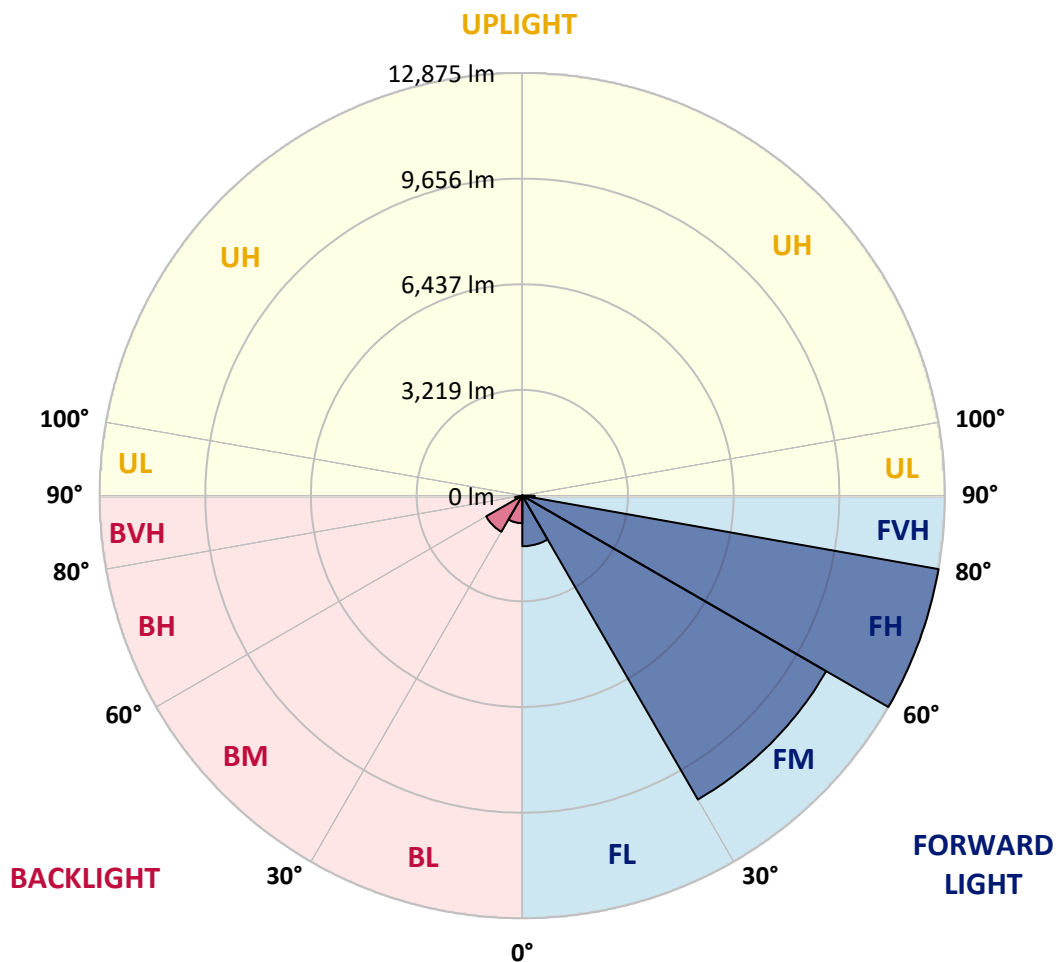
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1541.4	5.5			
FM	(30°-60°)	10689.1	38.4			
FH	(60°-80°)	12874.7	46.3			G5
FVH	(80°-90°)	375.4	1.3			G3/500
BL	(0°-30°)	839.3	3.0	B2/1000		
BM	(30°-60°)	1270.7	4.6	B2/2500		
BH	(60°-80°)	217.9	0.8	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: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3
2.5°	4147.8	4190.5	4184.1	4199.0	4235.3	4250.3	4290.8	4335.7	4397.6	4440.3	4468.0
5°	3714.4	3746.5	3750.7	3825.5	3861.7	3902.3	4021.9	4152.1	4297.2	4412.5	4489.4
7.5°	3251.2	3268.3	3302.4	3400.6	3492.4	3533.0	3714.4	3940.7	4169.1	4384.8	4523.5
10°	2869.1	2888.3	2950.2	3054.8	3140.2	3193.6	3445.5	3729.4	4049.6	4369.8	4572.6
12.5°	2651.3	2662.0	2685.5	2779.4	2888.3	2945.9	3217.1	3541.5	3953.5	4376.2	4655.9
15°	2636.4	2632.1	2604.4	2642.8	2741.0	2800.8	3065.5	3413.5	3868.2	4397.6	4754.1
17.5°	2715.4	2704.7	2638.5	2638.5	2719.7	2768.8	3001.4	3345.1	3825.5	4446.7	4892.8
20°	2837.1	2820.0	2711.1	2702.6	2781.6	2832.8	3039.9	3349.4	3834.0	4538.5	5078.5
22.5°	2990.8	2971.6	2807.2	2811.5	2896.8	2948.1	3150.9	3426.3	3887.4	4651.6	5277.1
25°	3191.4	3170.1	2975.8	2967.3	3056.9	3101.8	3315.3	3562.9	3962.1	4792.5	5537.5
27.5°	3458.3	3413.5	3180.8	3168.0	3264.0	3321.7	3513.8	3746.5	4094.4	4986.8	5887.6
30°	3678.2	3629.1	3407.0	3372.9	3475.4	3520.2	3718.7	3994.1	4354.9	5326.2	6372.2
32.5°	3966.3	3893.8	3633.3	3543.7	3652.5	3710.2	4015.4	4455.2	4741.3	5684.8	6948.6
35°	4615.3	4570.5	4252.4	3938.6	3932.2	4004.8	4453.1	4920.6	5138.3	6244.1	7734.2
37.5°	5543.9	5511.9	5174.6	4754.1	4632.4	4598.2	4984.6	5432.9	5772.3	7012.6	8647.8
40°	6622.0	6547.3	6237.7	5881.2	5723.2	5622.9	5612.2	6195.0	6600.6	8056.5	9599.9
42.5°	7394.7	7258.1	6882.4	6856.8	6822.6	6718.0	6414.9	7309.4	7670.1	9179.4	10618.2
45°	8205.9	7998.9	7439.6	7343.5	7330.7	7324.3	7627.4	8628.6	8835.7	10396.2	11664.2
47.5°	8835.7	8671.3	8212.3	8169.7	8223.0	8368.2	9230.6	10029.0	9986.3	11480.6	12541.6
50°	9674.6	9550.8	9040.6	9121.7	9397.1	9634.1	11038.7	11555.4	10932.0	12334.5	13179.9
52.5°	10665.2	10436.7	9962.8	10182.7	10605.4	11000.3	12957.9	12891.7	11595.9	12977.1	13655.9
55°	11523.3	11361.1	11198.9	11427.3	12059.2	12552.3	14691.3	13892.9	12078.4	13493.7	13865.1
57.5°	12975.0	12936.5	12770.0	13002.7	13769.1	14281.4	16243.2	14669.9	12387.9	13762.7	13619.6
60°	15122.5	15060.6	14751.1	15047.8	16046.8	16851.6	17673.5	15368.0	12458.3	13658.1	12913.0
62.5°	17705.5	17494.2	17229.5	17667.1	19037.6	19392.0	19020.5	15782.1	12195.8	12825.5	11209.5
65°	20117.8	19900.1	19906.5	20828.7	22320.9	22562.1	20591.7	15720.2	11427.3	10739.9	8267.9
67.5°	21964.4	21928.1	22188.5	23988.1	25939.2	25772.7	21996.4	14793.8	9149.5	6961.4	4393.3
70°	22058.3	22128.7	22875.9	25913.6	27894.7	27630.0	21876.8	12025.0	5704.0	3202.1	1731.3
71°	20922.6	21396.5	22429.7	25853.8	28009.9	27666.2	20869.2	10071.7	4184.1	2232.9	1248.8
72.5°	17829.4	18079.1	20312.1	24331.8	27098.4	26364.1	18313.9	7059.6	2679.1	1366.2	717.3
75°	9819.8	10434.6	13602.6	19088.9	21674.0	21029.3	11935.3	3353.7	1336.3	747.2	296.7
77.5°	4675.1	4555.5	6636.9	11352.6	14695.6	14661.4	6013.6	1490.0	779.2	505.9	149.4
80°	1336.3	1502.9	2540.3	5396.6	8159.0	8248.6	2309.8	719.4	540.1	394.9	76.9
82.5°	403.5	412.0	932.9	2386.6	4058.1	3825.5	866.7	367.2	388.5	313.8	44.8
85°	70.4	87.5	275.4	841.1	1547.7	1174.1	217.7	175.0	256.2	207.1	25.6
87.5°	4.3	6.4	91.8	96.1	136.6	79.0	38.4	25.6	55.5	55.5	14.9
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°	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3	4472.3
2.5°	4487.2	4500.0	4491.5	4472.3	4440.3	4401.8	4350.6	4307.9	4271.6	4252.4	4275.9
5°	4515.0	4532.1	4489.4	4393.3	4248.1	4090.2	3910.8	3772.1	3663.2	3629.1	3616.3
7.5°	4557.7	4568.3	4453.1	4239.6	3932.2	3558.6	3232.0	2956.6	2743.1	2679.1	2585.2
10°	4613.2	4606.8	4389.0	3992.0	3451.9	2890.4	2384.5	2008.8	1724.9	1622.4	1613.9
12.5°	4698.6	4664.4	4307.9	3654.7	2879.8	2145.4	1519.9	1189.1	1009.7	950.0	937.2
15°	4805.3	4724.2	4179.8	3259.7	2205.2	1385.4	937.2	836.8	813.3	809.1	804.8
17.5°	4931.3	4803.2	4011.2	2775.2	1549.8	898.7	783.4	781.3	783.4	779.2	777.0
20°	5102.0	4886.4	3810.5	2200.9	1024.7	757.8	747.2	747.2	749.3	747.2	747.2
22.5°	5283.5	4984.6	3562.9	1680.0	772.8	719.4	717.3	721.5	725.8	723.7	723.7
25°	5507.6	5112.7	3236.3	1150.6	691.7	687.4	689.5	698.1	706.6	708.7	706.6
27.5°	5832.1	5270.7	2886.2	792.0	634.0	638.3	659.6	681.0	693.8	695.9	695.9
30°	6197.2	5445.7	2429.3	642.6	587.1	587.1	612.7	653.2	681.0	685.3	687.4
32.5°	6666.8	5648.5	1923.4	578.5	542.2	538.0	561.4	610.5	661.8	676.7	676.7
35°	7247.4	5887.6	1430.3	538.0	510.2	499.5	512.3	552.9	619.1	661.8	666.0
37.5°	7928.4	6113.9	1046.0	501.7	480.3	465.4	473.9	505.9	559.3	623.3	640.4
40°	8558.2	6314.6	781.3	471.8	450.4	439.8	446.2	461.1	505.9	565.7	576.4
42.5°	9245.6	6470.4	621.2	439.8	420.5	416.3	416.3	422.7	452.6	486.7	488.9
45°	9930.8	6525.9	520.9	401.3	388.5	392.8	390.7	386.4	399.2	394.9	394.9
47.5°	10419.7	6459.7	431.2	365.0	365.0	371.4	360.8	345.8	339.4	313.8	315.9
50°	10754.8	6218.5	354.4	322.3	339.4	348.0	326.6	303.1	279.7	251.9	245.5
52.5°	10893.6	5789.4	290.3	266.8	301.0	311.7	286.1	258.3	222.0	198.5	192.1
55°	10803.9	5260.0	241.2	217.7	254.0	266.8	241.2	209.2	168.6	143.0	138.8
57.5°	10409.0	4628.1	204.9	172.9	202.8	211.3	194.3	160.1	119.5	93.9	93.9
60°	9725.9	3974.9	166.5	136.6	151.6	164.4	147.3	115.3	81.1	57.6	53.4
62.5°	8340.4	3227.7	134.5	106.7	106.7	117.4	102.5	83.3	51.2	29.9	27.8
65°	6022.1	2213.7	106.7	79.0	76.9	76.9	64.0	55.5	29.9	12.8	8.5
67.5°	3272.6	1248.8	85.4	59.8	53.4	51.2	40.6	32.0	12.8	2.1	0.0
70°	1287.2	480.3	66.2	40.6	34.2	32.0	21.3	14.9	8.5	0.0	0.0
71°	873.1	330.9	57.6	34.2	27.8	23.5	17.1	12.8	6.4	0.0	0.0
72.5°	499.5	204.9	44.8	25.6	21.3	17.1	12.8	8.5	6.4	0.0	0.0
75°	217.7	104.6	27.8	19.2	14.9	10.7	8.5	6.4	2.1	0.0	0.0
77.5°	111.0	57.6	19.2	14.9	8.5	6.4	4.3	2.1	0.0	0.0	0.0
80°	61.9	29.9	12.8	8.5	6.4	4.3	2.1	2.1	0.0	0.0	0.0
82.5°	34.2	17.1	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	4.3	0.0	0.0	0.0	0.0	2.1	2.1	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)