

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: P457668

Luminaire Tested: **GALN-SA9A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457668
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-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 27188 lumens
Efficiency: N/A
Efficacy: 99.2 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

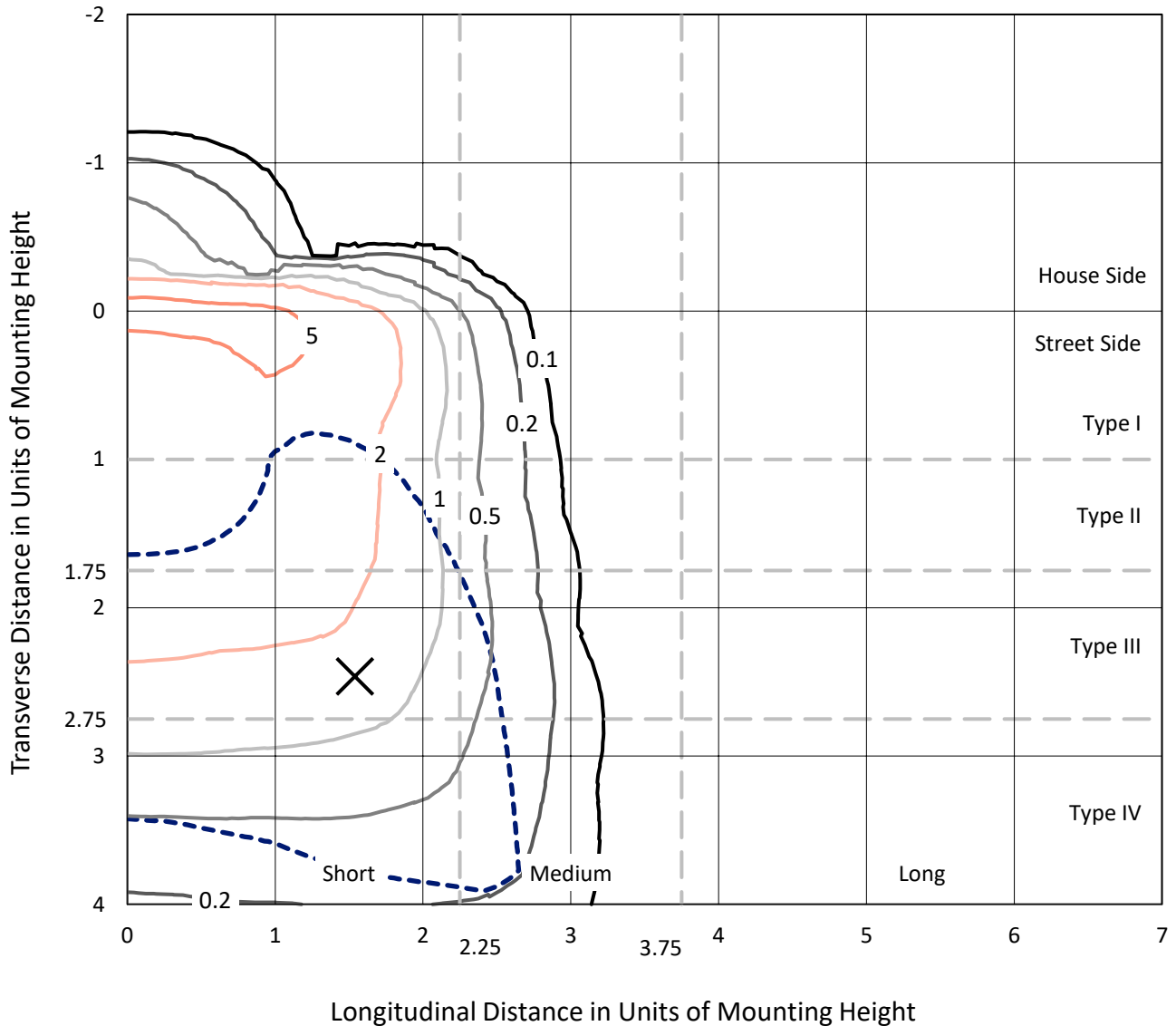
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

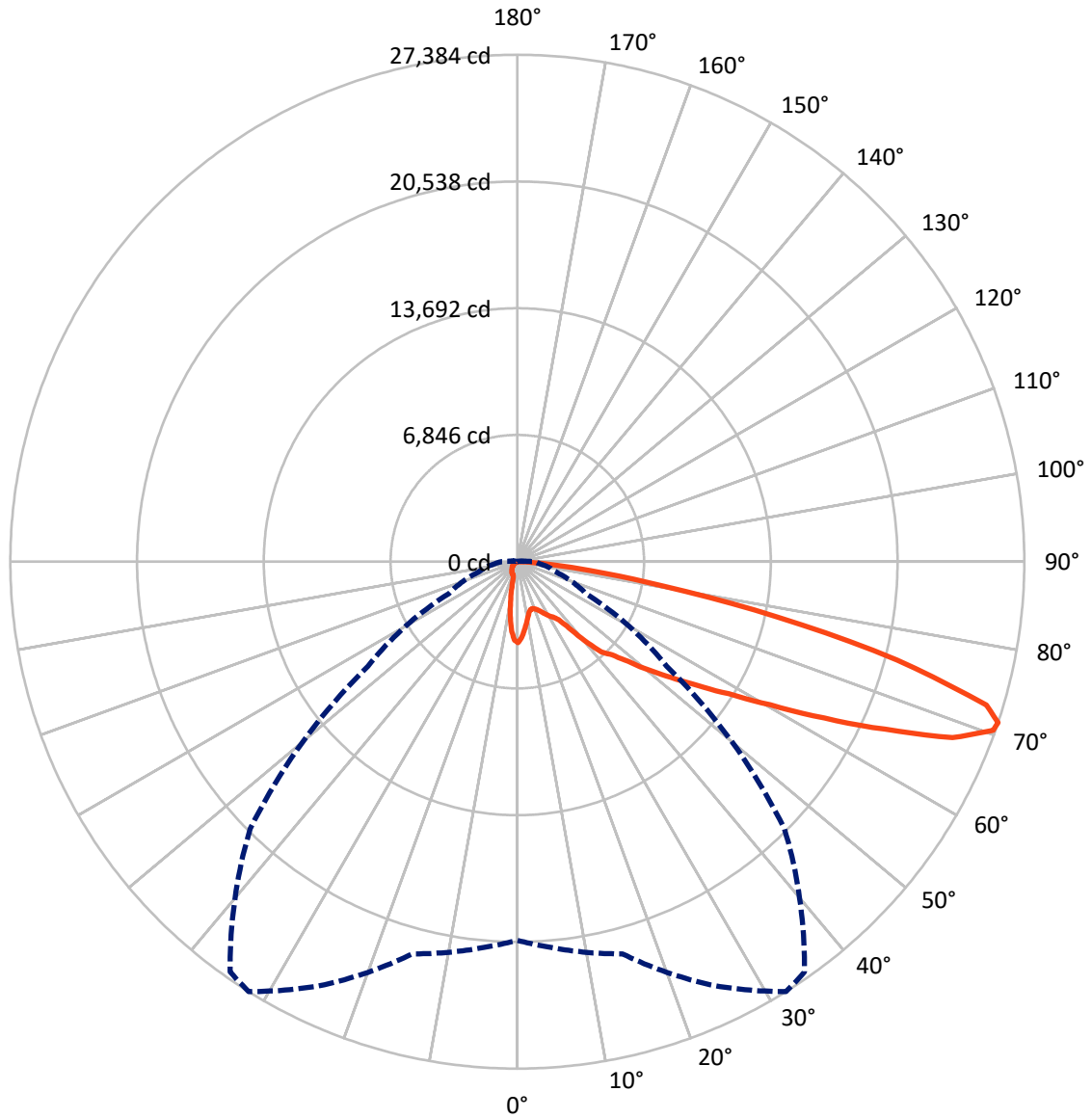
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	2277.3	0.0	2277.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	24910.7	0.0	24910.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	27188.0	0.0	27188.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.5	1.3
10°-20°	771.6	2.8
20°-30°	1200.4	4.4
30°-40°	1999.8	7.4
40°-50°	3720.0	13.7
50°-60°	5972.6	22.0
60°-70°	8033.4	29.5
70°-80°	4766.3	17.5
80°-90°	368.4	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°	27188.0	100.0
0°-180°	27188.0	100.0



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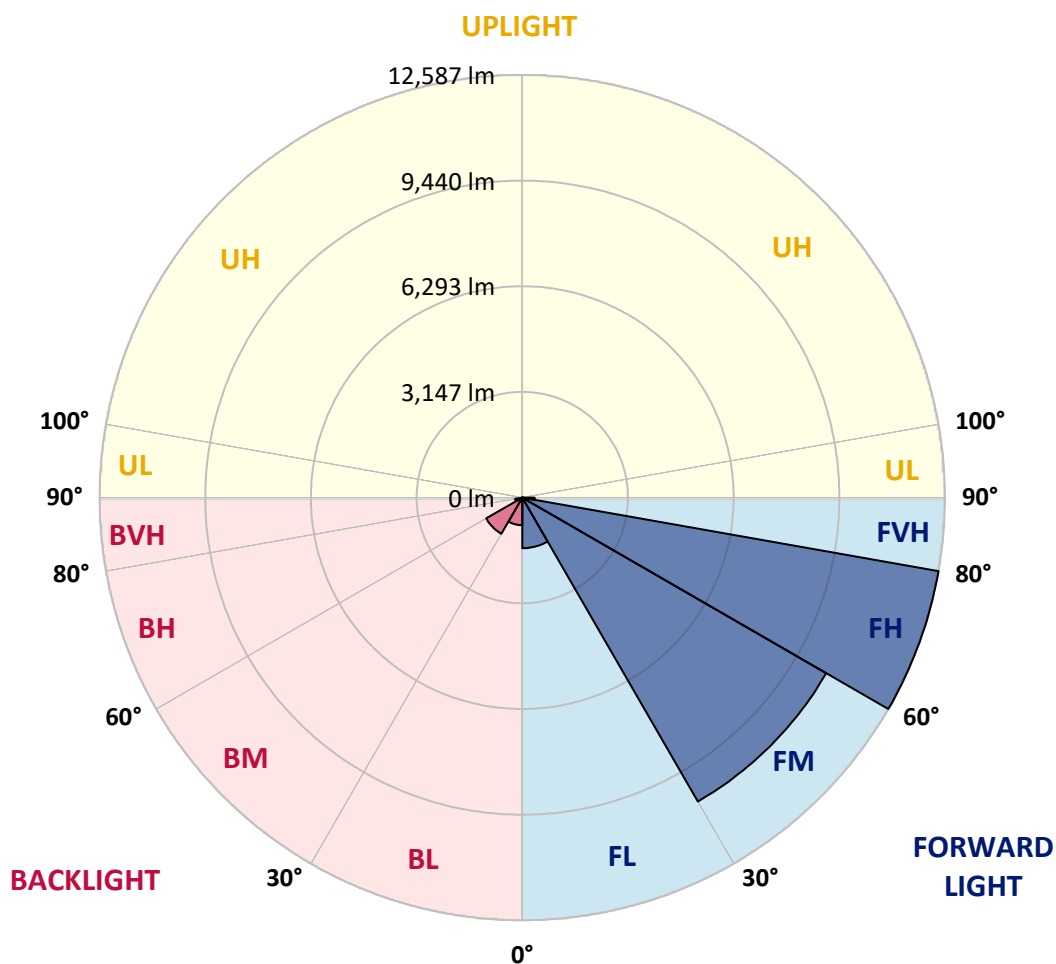
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1506.9	5.5			
FM	(30°-60°)	10450.1	38.4			
FH	(60°-80°)	12586.7	46.3			G5
FVH	(80°-90°)	367.0	1.3			G3/500
BL	(0°-30°)	820.6	3.0	B2/1000		
BM	(30°-60°)	1242.3	4.6	B2/2500		
BH	(60°-80°)	213.0	0.8	B1/500		G1/500
BVH	(80°-90°)	1.4	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°	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3
2.5°	4055.0	4096.8	4090.5	4105.1	4140.6	4155.2	4194.9	4238.7	4299.2	4341.0	4368.1
5°	3631.4	3662.7	3666.9	3739.9	3775.4	3815.0	3931.9	4059.2	4201.1	4313.8	4389.0
7.5°	3178.5	3195.2	3228.6	3324.6	3414.3	3454.0	3631.4	3852.6	4075.9	4286.7	4422.3
10°	2804.9	2823.7	2884.2	2986.5	3070.0	3122.1	3368.4	3646.0	3959.0	4272.1	4470.3
12.5°	2592.0	2602.5	2625.4	2717.3	2823.7	2880.1	3145.1	3462.3	3865.1	4278.3	4551.7
15°	2577.4	2573.3	2546.1	2583.7	2679.7	2738.1	2996.9	3337.1	3781.6	4299.2	4647.7
17.5°	2654.7	2644.2	2579.5	2579.5	2658.8	2706.8	2934.3	3270.3	3739.9	4347.2	4783.4
20°	2773.6	2756.9	2650.5	2642.1	2719.4	2769.4	2971.9	3274.5	3748.2	4437.0	4965.0
22.5°	2923.9	2905.1	2744.4	2748.6	2832.1	2882.1	3080.4	3349.6	3800.4	4547.6	5159.1
25°	3120.1	3099.2	2909.3	2900.9	2988.6	3032.4	3241.1	3483.2	3873.5	4685.3	5413.7
27.5°	3380.9	3337.1	3109.6	3097.1	3191.0	3247.4	3435.2	3662.7	4002.9	4875.2	5755.9
30°	3595.9	3547.9	3330.8	3297.5	3397.6	3441.5	3635.5	3904.8	4257.5	5207.1	6229.7
32.5°	3877.6	3806.7	3552.1	3464.4	3570.8	3627.2	3925.6	4355.6	4635.2	5557.7	6793.2
35°	4512.1	4468.3	4157.3	3850.5	3844.2	3915.2	4353.5	4810.5	5023.4	6104.5	7561.2
37.5°	5419.9	5388.6	5058.9	4647.7	4528.8	4495.4	4873.1	5311.4	5643.2	6855.8	8454.4
40°	6473.9	6400.8	6098.2	5749.7	5595.2	5497.1	5486.7	6056.5	6453.0	7876.3	9385.2
42.5°	7229.4	7095.8	6728.5	6703.4	6670.0	6567.8	6271.4	7145.9	7498.6	8974.1	10380.7
45°	8022.4	7820.0	7273.2	7179.3	7166.7	7160.5	7456.8	8435.6	8638.1	10163.7	11403.3
47.5°	8638.1	8477.4	8028.7	7986.9	8039.1	8181.0	9024.2	9804.7	9763.0	11223.9	12261.1
50°	9458.3	9337.2	8838.4	8917.7	9187.0	9418.6	10791.9	11296.9	10687.5	12058.7	12885.1
52.5°	10426.6	10203.3	9740.0	9955.0	10368.2	10754.3	12668.1	12603.4	11336.6	12686.8	13350.5
55°	11265.6	11107.0	10948.4	11171.7	11789.4	12271.5	14362.7	13582.2	11808.2	13191.9	13555.0
57.5°	12684.8	12647.2	12484.4	12711.9	13461.1	13962.0	15879.9	14341.8	12110.8	13454.9	13315.0
60°	14784.3	14723.8	14421.1	14711.2	15687.9	16474.7	17278.2	15024.3	12179.7	13352.6	12624.2
62.5°	17309.5	17102.9	16844.1	17272.0	18611.8	18958.3	18595.1	15429.2	11923.0	12538.7	10958.8
65°	19667.8	19455.0	19461.2	20362.8	21821.6	22057.5	20131.2	15368.6	11171.7	10499.7	8082.9
67.5°	21473.1	21437.6	21692.2	23451.6	25359.1	25196.3	21504.4	14462.9	8944.9	6805.7	4295.0
70°	21564.9	21633.8	22364.2	25334.0	27270.8	27012.0	21387.5	11756.0	5576.5	3130.5	1692.6
71°	20454.6	20918.0	21928.1	25275.6	27383.5	27047.5	20402.5	9846.4	4090.5	2183.0	1220.9
72.5°	17430.6	17674.8	19857.8	23787.6	26492.3	25774.4	17904.3	6901.7	2619.2	1335.7	701.2
75°	9600.2	10201.2	13298.3	18661.9	21189.3	20559.0	11668.4	3278.7	1306.5	730.4	290.1
77.5°	4570.5	4453.6	6488.5	11098.6	14366.9	14333.5	5879.1	1456.7	761.8	494.6	146.1
80°	1306.5	1469.2	2483.5	5275.9	7976.5	8064.1	2258.1	703.3	528.0	386.1	75.1
82.5°	394.4	402.8	912.0	2333.3	3967.4	3739.9	847.3	359.0	379.8	306.8	43.8
85°	68.9	85.6	269.2	822.3	1513.1	1147.8	212.9	171.1	250.4	202.4	25.0
87.5°	4.2	6.3	89.7	93.9	133.6	77.2	37.6	25.0	54.3	54.3	14.6
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°	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3
2.5°	4386.9	4399.4	4391.0	4372.3	4341.0	4303.4	4253.3	4211.6	4176.1	4157.3	4180.3
5°	4414.0	4430.7	4389.0	4295.0	4153.1	3998.7	3823.4	3687.7	3581.3	3547.9	3535.4
7.5°	4455.7	4466.2	4353.5	4144.8	3844.2	3479.0	3159.7	2890.5	2681.8	2619.2	2527.4
10°	4510.0	4503.7	4290.9	3902.7	3374.7	2825.8	2331.2	1963.9	1686.3	1586.1	1577.8
12.5°	4593.5	4560.1	4211.6	3572.9	2815.4	2097.4	1485.9	1162.5	987.1	928.7	916.2
15°	4697.8	4618.5	4086.3	3186.8	2155.9	1354.5	916.2	818.1	795.1	791.0	786.8
17.5°	4821.0	4695.7	3921.5	2713.1	1515.2	878.6	765.9	763.8	765.9	761.8	759.7
20°	4987.9	4777.1	3725.3	2151.7	1001.8	740.9	730.4	730.4	732.5	730.4	730.4
22.5°	5165.3	4873.1	3483.2	1642.5	755.5	703.3	701.2	705.4	709.6	707.5	707.5
25°	5384.4	4998.4	3163.9	1124.9	676.2	672.0	674.1	682.4	690.8	692.9	690.8
27.5°	5701.7	5152.8	2821.6	774.3	619.8	624.0	644.9	665.8	678.3	680.4	680.4
30°	6058.5	5323.9	2375.0	628.2	573.9	573.9	599.0	638.6	665.8	669.9	672.0
32.5°	6517.7	5522.2	1880.4	565.6	530.1	525.9	548.9	596.9	647.0	661.6	661.6
35°	7085.3	5755.9	1398.3	525.9	498.8	488.4	500.9	540.5	605.2	647.0	651.1
37.5°	7751.1	5977.2	1022.6	490.4	469.6	455.0	463.3	494.6	546.8	609.4	626.1
40°	8366.8	6173.3	763.8	461.2	440.4	429.9	436.2	450.8	494.6	553.1	563.5
42.5°	9038.8	6325.7	607.3	429.9	411.1	407.0	407.0	413.2	442.4	475.8	477.9
45°	9708.7	6379.9	509.2	392.4	379.8	384.0	381.9	377.7	390.3	386.1	386.1
47.5°	10186.6	6315.2	421.6	356.9	356.9	363.1	352.7	338.1	331.8	306.8	308.9
50°	10514.3	6079.4	346.4	315.1	331.8	340.2	319.3	296.4	273.4	246.3	240.0
52.5°	10649.9	5659.9	283.8	260.9	294.3	304.7	279.7	252.5	217.0	194.1	187.8
55°	10562.3	5142.4	235.8	212.9	248.4	260.9	235.8	204.5	164.9	139.8	135.7
57.5°	10176.2	4524.6	200.4	169.0	198.3	206.6	189.9	156.5	116.9	91.8	91.8
60°	9508.4	3886.0	162.8	133.6	148.2	160.7	144.0	112.7	79.3	56.3	52.2
62.5°	8153.9	3155.5	131.5	104.3	104.3	114.8	100.2	81.4	50.1	29.2	27.1
65°	5887.4	2164.2	104.3	77.2	75.1	75.1	62.6	54.3	29.2	12.5	8.3
67.5°	3199.4	1220.9	83.5	58.4	52.2	50.1	39.7	31.3	12.5	2.1	0.0
70°	1258.5	469.6	64.7	39.7	33.4	31.3	20.9	14.6	8.3	0.0	0.0
71°	853.6	323.5	56.3	33.4	27.1	23.0	16.7	12.5	6.3	0.0	0.0
72.5°	488.4	200.4	43.8	25.0	20.9	16.7	12.5	8.3	6.3	0.0	0.0
75°	212.9	102.3	27.1	18.8	14.6	10.4	8.3	6.3	2.1	0.0	0.0
77.5°	108.5	56.3	18.8	14.6	8.3	6.3	4.2	2.1	0.0	0.0	0.0
80°	60.5	29.2	12.5	8.3	6.3	4.2	2.1	2.1	0.0	0.0	0.0
82.5°	33.4	16.7	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.9	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	4.2	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)