

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: P457320

Luminaire Tested: **GALN-SA8C-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457320
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-SA8C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA 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: 30052 lumens
Efficiency: N/A
Efficacy: 70.1 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

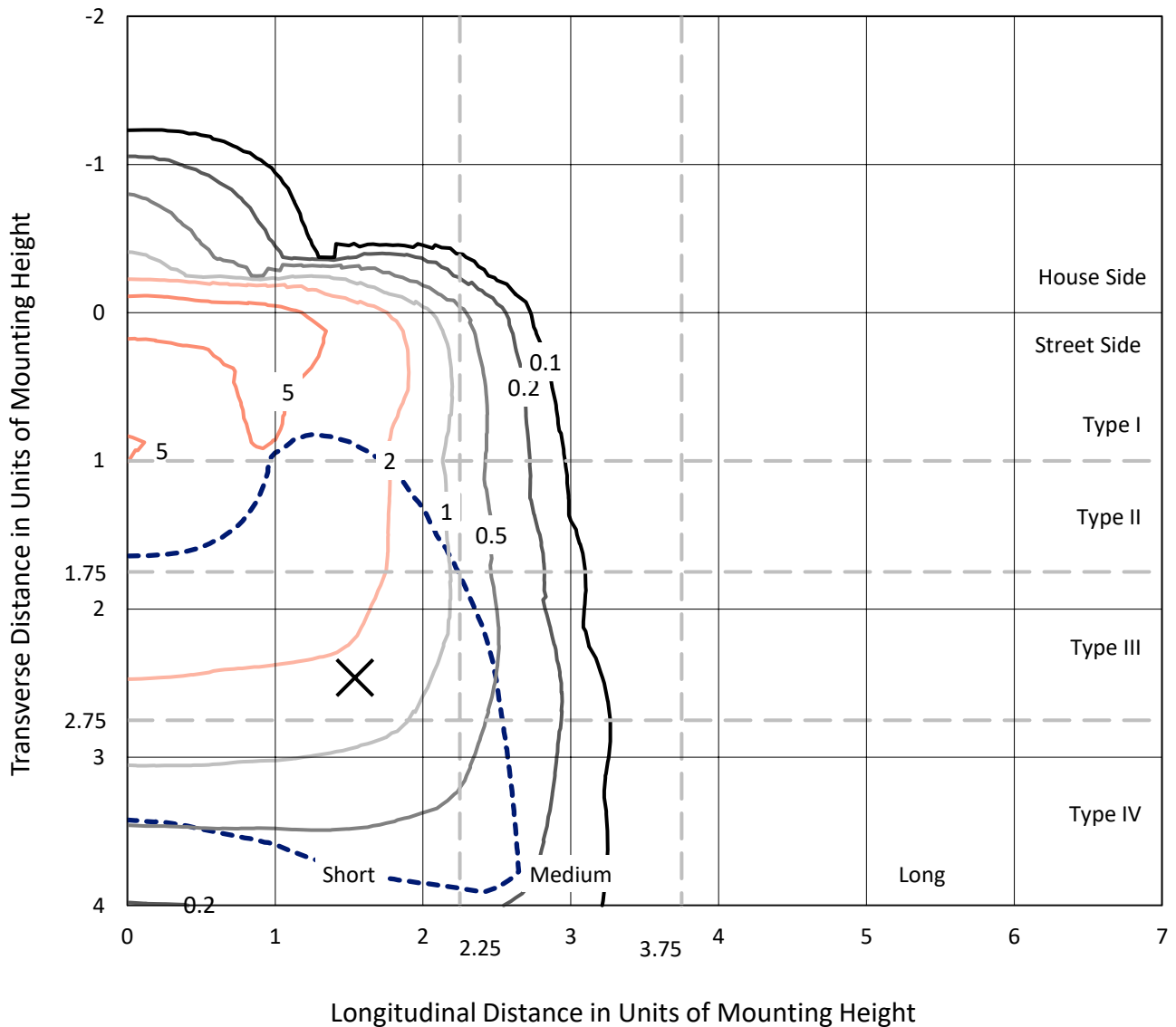
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

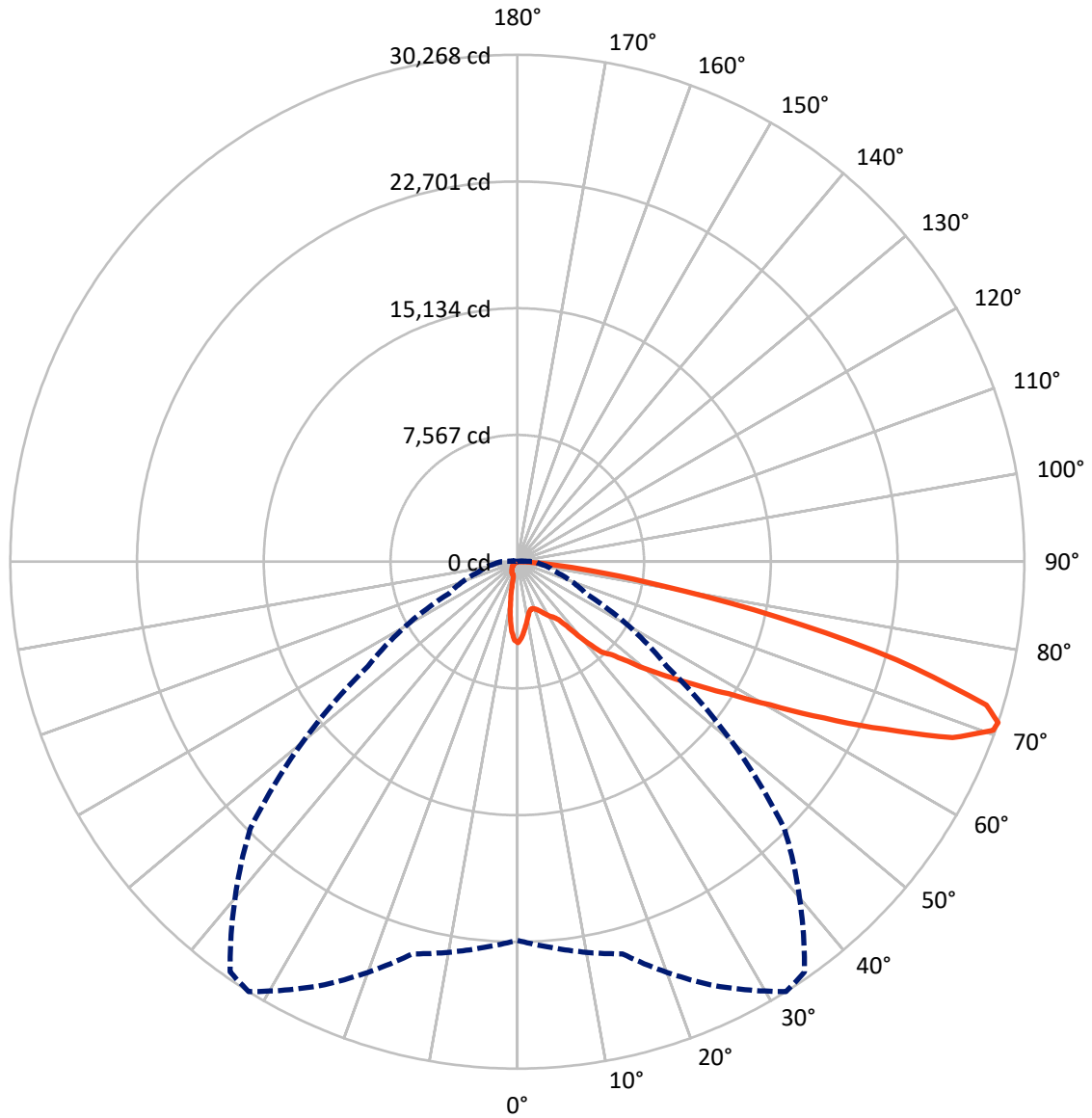
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2517.2	0.0	2517.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	27534.8	0.0	27534.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	30052.0	0.0	30052.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.0	1.3
10°-20°	852.9	2.8
20°-30°	1326.8	4.4
30°-40°	2210.5	7.4
40°-50°	4111.9	13.7
50°-60°	6601.7	22.0
60°-70°	8879.6	29.5
70°-80°	5268.4	17.5
80°-90°	407.2	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°	30052.0	100.0
0°-180°	30052.0	100.0



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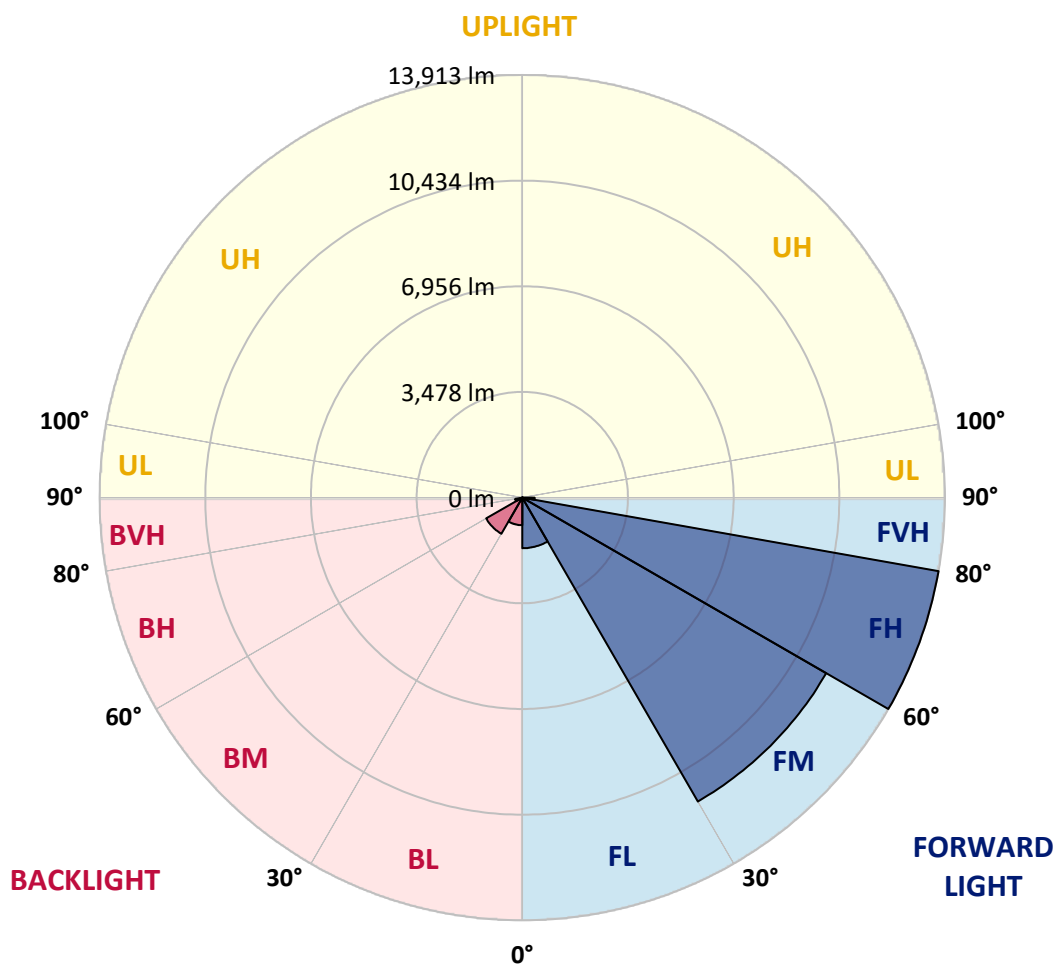
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1665.7	5.5			
FM	(30°-60°)	11550.9	38.4			
FH	(60°-80°)	13912.6	46.3			G5
FVH	(80°-90°)	405.6	1.3			G3/500
BL	(0°-30°)	907.0	3.0	B2/1000		
BM	(30°-60°)	1373.2	4.6	B2/2500		
BH	(60°-80°)	235.4	0.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8
2.5°	4482.2	4528.3	4521.4	4537.6	4576.8	4592.9	4636.7	4685.2	4752.1	4798.2	4828.2
5°	4013.9	4048.5	4053.1	4133.9	4173.1	4216.9	4346.1	4486.8	4643.7	4768.2	4851.3
7.5°	3513.3	3531.8	3568.7	3674.8	3774.0	3817.8	4013.9	4258.4	4505.3	4738.3	4888.2
10°	3100.4	3121.2	3188.1	3301.1	3393.4	3451.0	3723.2	4030.1	4376.1	4722.1	4941.3
12.5°	2865.1	2876.6	2902.0	3003.5	3121.2	3183.4	3476.4	3827.0	4272.3	4729.0	5031.2
15°	2848.9	2844.3	2814.3	2855.9	2962.0	3026.6	3312.6	3688.6	4180.0	4752.1	5137.3
17.5°	2934.3	2922.8	2851.3	2851.3	2938.9	2992.0	3243.4	3614.8	4133.9	4805.1	5287.3
20°	3065.8	3047.3	2929.7	2920.5	3005.8	3061.2	3284.9	3619.4	4143.1	4904.3	5488.0
22.5°	3231.9	3211.1	3033.5	3038.1	3130.4	3185.7	3404.9	3702.5	4200.8	5026.6	5702.5
25°	3448.7	3425.7	3215.7	3206.5	3303.4	3351.8	3582.5	3850.1	4281.5	5178.9	5983.9
27.5°	3737.1	3688.6	3437.2	3423.4	3527.2	3589.4	3797.1	4048.5	4424.5	5388.8	6362.3
30°	3974.7	3921.6	3681.7	3644.8	3755.5	3804.0	4018.5	4316.1	4706.0	5755.6	6885.9
32.5°	4286.1	4207.7	3926.2	3829.4	3947.0	4009.3	4339.2	4814.4	5123.5	6143.1	7508.8
35°	4987.4	4938.9	4595.2	4256.1	4249.2	4327.6	4812.1	5317.3	5552.6	6747.5	8357.7
37.5°	5990.9	5956.3	5591.8	5137.3	5005.8	4968.9	5386.5	5870.9	6237.7	7578.0	9345.0
40°	7155.8	7075.1	6740.6	6355.3	6184.6	6076.2	6064.7	6694.5	7132.8	8706.0	10373.9
42.5°	7990.9	7843.3	7437.3	7409.6	7372.7	7259.6	6932.1	7898.6	8288.5	9919.4	11474.2
45°	8867.5	8643.7	8039.3	7935.5	7921.7	7914.8	8242.3	9324.2	9548.0	11234.3	12604.6
47.5°	9548.0	9370.4	8874.4	8828.3	8885.9	9042.8	9974.8	10837.5	10791.4	12406.2	13552.7
50°	10454.6	10320.8	9769.5	9857.1	10154.7	10410.8	11928.7	12486.9	11813.3	13328.9	14242.4
52.5°	11525.0	11278.1	10766.0	11003.6	11460.4	11887.1	14002.5	13931.0	12530.8	14023.3	14756.9
55°	12452.3	12277.0	12101.7	12348.5	13031.3	13564.2	15875.7	15012.9	13052.1	14581.5	14982.9
57.5°	14021.0	13979.5	13799.5	14051.0	14879.1	15432.8	17552.7	15852.6	13386.6	14872.2	14717.6
60°	16341.7	16274.8	15940.3	16260.9	17340.5	18210.2	19098.3	16606.9	13462.7	14759.2	13954.1
62.5°	19132.9	18904.6	18618.5	19091.4	20572.4	20955.3	20553.9	17054.5	13179.0	13859.5	12113.2
65°	21739.7	21504.4	21511.3	22507.8	24120.3	24381.0	22251.8	16987.6	12348.5	11605.7	8934.4
67.5°	23735.1	23695.9	23977.3	25922.0	28030.4	27850.5	23769.7	15986.4	9887.1	7522.6	4747.5
70°	23836.6	23912.7	24720.1	28002.7	30143.5	29857.4	23640.5	12994.4	6163.9	3460.3	1870.8
71°	22609.3	23121.5	24238.0	27938.1	30268.1	29896.7	22551.7	10883.7	4521.4	2413.0	1349.5
72.5°	19266.7	19536.6	21949.6	26293.4	29283.0	28489.5	19790.4	7628.7	2895.1	1476.4	775.1
75°	10611.5	11275.8	14699.2	20627.8	23421.4	22724.7	12897.5	3624.0	1444.1	807.4	320.7
77.5°	5052.0	4922.8	7172.0	12267.8	15880.3	15843.4	6498.4	1610.2	842.0	546.7	161.5
80°	1444.1	1624.0	2745.1	5831.7	8816.7	8913.6	2496.0	777.4	583.6	426.8	83.0
82.5°	436.0	445.2	1008.1	2579.0	4385.3	4133.9	936.6	396.8	419.8	339.1	48.4
85°	76.1	94.6	297.6	908.9	1672.5	1268.8	235.3	189.2	276.8	223.8	27.7
87.5°	4.6	6.9	99.2	103.8	147.6	85.4	41.5	27.7	60.0	60.0	16.1
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°	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8	4832.8
2.5°	4849.0	4862.8	4853.6	4832.8	4798.2	4756.7	4701.3	4655.2	4616.0	4595.2	4620.6
5°	4879.0	4897.4	4851.3	4747.5	4590.6	4419.9	4226.1	4076.2	3958.5	3921.6	3907.8
7.5°	4925.1	4936.6	4812.1	4581.4	4249.2	3845.5	3492.6	3195.0	2964.3	2895.1	2793.6
10°	4985.1	4978.2	4742.9	4313.8	3730.2	3123.5	2576.7	2170.7	1863.9	1753.2	1744.0
12.5°	5077.4	5040.4	4655.2	3949.3	3111.9	2318.4	1642.5	1284.9	1091.1	1026.5	1012.7
15°	5192.7	5105.0	4516.8	3522.5	2383.0	1497.1	1012.7	904.3	878.9	874.3	869.7
17.5°	5328.8	5190.4	4334.6	2998.9	1674.8	971.2	846.6	844.3	846.6	842.0	839.7
20°	5513.3	5280.4	4117.7	2378.4	1107.3	818.9	807.4	807.4	809.7	807.4	807.4
22.5°	5709.4	5386.5	3850.1	1815.5	835.1	777.4	775.1	779.7	784.3	782.0	782.0
25°	5951.6	5524.9	3497.2	1243.4	747.4	742.8	745.1	754.3	763.6	765.9	763.6
27.5°	6302.3	5695.6	3118.8	855.8	685.1	689.7	712.8	735.9	749.7	752.0	752.0
30°	6696.8	5884.8	2625.2	694.4	634.4	634.4	662.1	705.9	735.9	740.5	742.8
32.5°	7204.3	6103.9	2078.5	625.2	585.9	581.3	606.7	659.8	715.1	731.3	731.3
35°	7831.7	6362.3	1545.6	581.3	551.3	539.8	553.6	597.5	669.0	715.1	719.7
37.5°	8567.6	6606.8	1130.4	542.1	519.0	502.9	512.1	546.7	604.4	673.6	692.1
40°	9248.1	6823.6	844.3	509.8	486.7	475.2	482.1	498.3	546.7	611.3	622.8
42.5°	9990.9	6992.0	671.3	475.2	454.4	449.8	449.8	456.8	489.1	526.0	528.3
45°	10731.4	7052.0	562.9	433.7	419.8	424.5	422.2	417.5	431.4	426.8	426.8
47.5°	11259.7	6980.5	466.0	394.5	394.5	401.4	389.9	373.7	366.8	339.1	341.4
50°	11621.9	6719.8	382.9	348.3	366.8	376.0	352.9	327.6	302.2	272.2	265.3
52.5°	11771.8	6256.2	313.7	288.4	325.3	336.8	309.1	279.1	239.9	214.5	207.6
55°	11674.9	5684.1	260.7	235.3	274.5	288.4	260.7	226.1	182.2	154.6	149.9
57.5°	11248.2	5001.2	221.5	186.9	219.1	228.4	209.9	173.0	129.2	101.5	101.5
60°	10510.0	4295.3	179.9	147.6	163.8	177.6	159.2	124.6	87.7	62.3	57.7
62.5°	9012.8	3487.9	145.3	115.3	115.3	126.9	110.7	90.0	55.4	32.3	30.0
65°	6507.6	2392.2	115.3	85.4	83.0	83.0	69.2	60.0	32.3	13.8	9.2
67.5°	3536.4	1349.5	92.3	64.6	57.7	55.4	43.8	34.6	13.8	2.3	0.0
70°	1391.0	519.0	71.5	43.8	36.9	34.6	23.1	16.1	9.2	0.0	0.0
71°	943.5	357.6	62.3	36.9	30.0	25.4	18.5	13.8	6.9	0.0	0.0
72.5°	539.8	221.5	48.4	27.7	23.1	18.5	13.8	9.2	6.9	0.0	0.0
75°	235.3	113.0	30.0	20.8	16.1	11.5	9.2	6.9	2.3	0.0	0.0
77.5°	120.0	62.3	20.8	16.1	9.2	6.9	4.6	2.3	0.0	0.0	0.0
80°	66.9	32.3	13.8	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
82.5°	36.9	18.5	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.1	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	4.6	0.0	0.0	0.0	0.0	2.3	2.3	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)