

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: P456827

Luminaire Tested: **GALN-SA8A-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456827
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-SA8A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 26591 lumens
Efficiency: N/A
Efficacy: 109.0 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

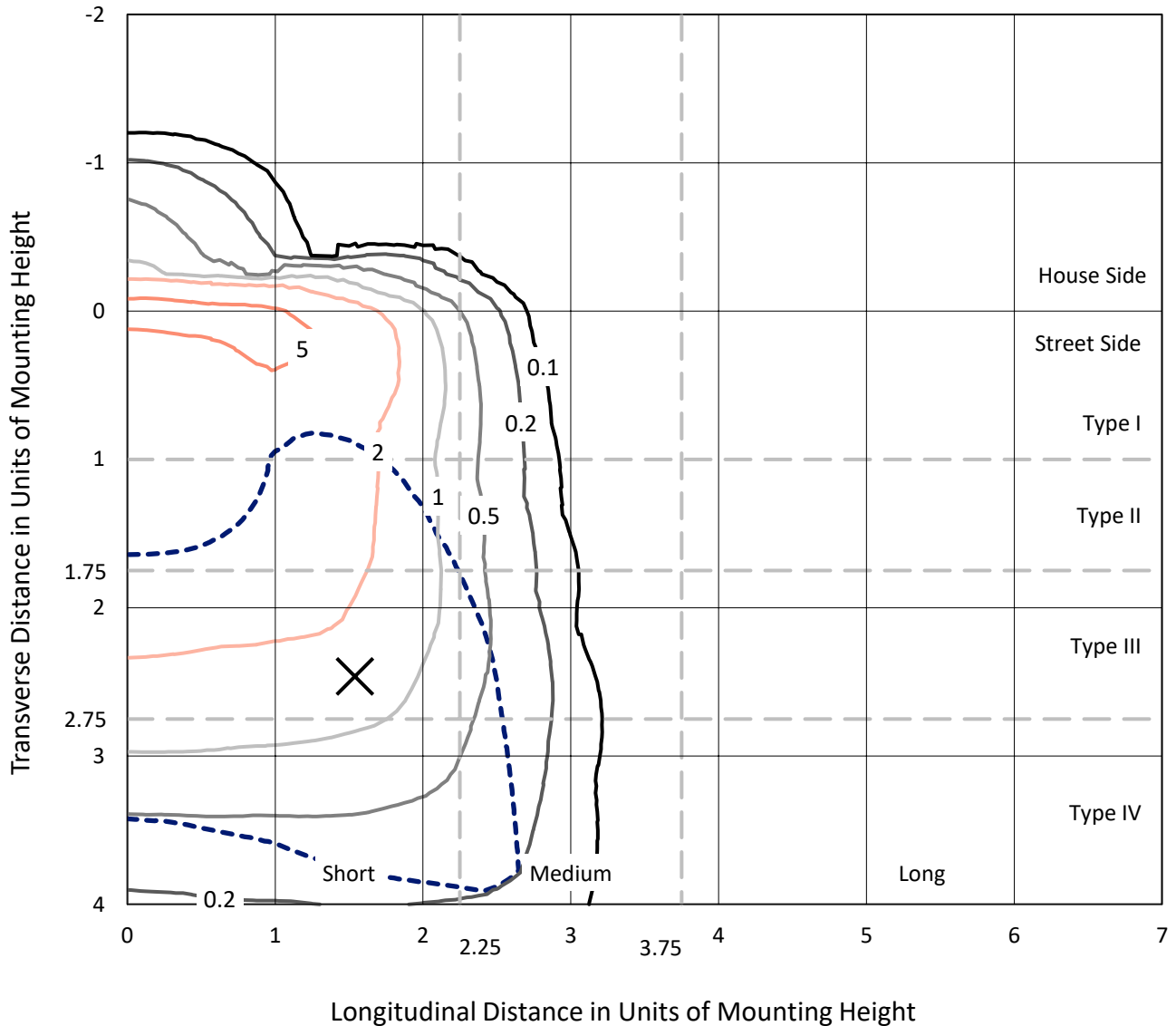
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

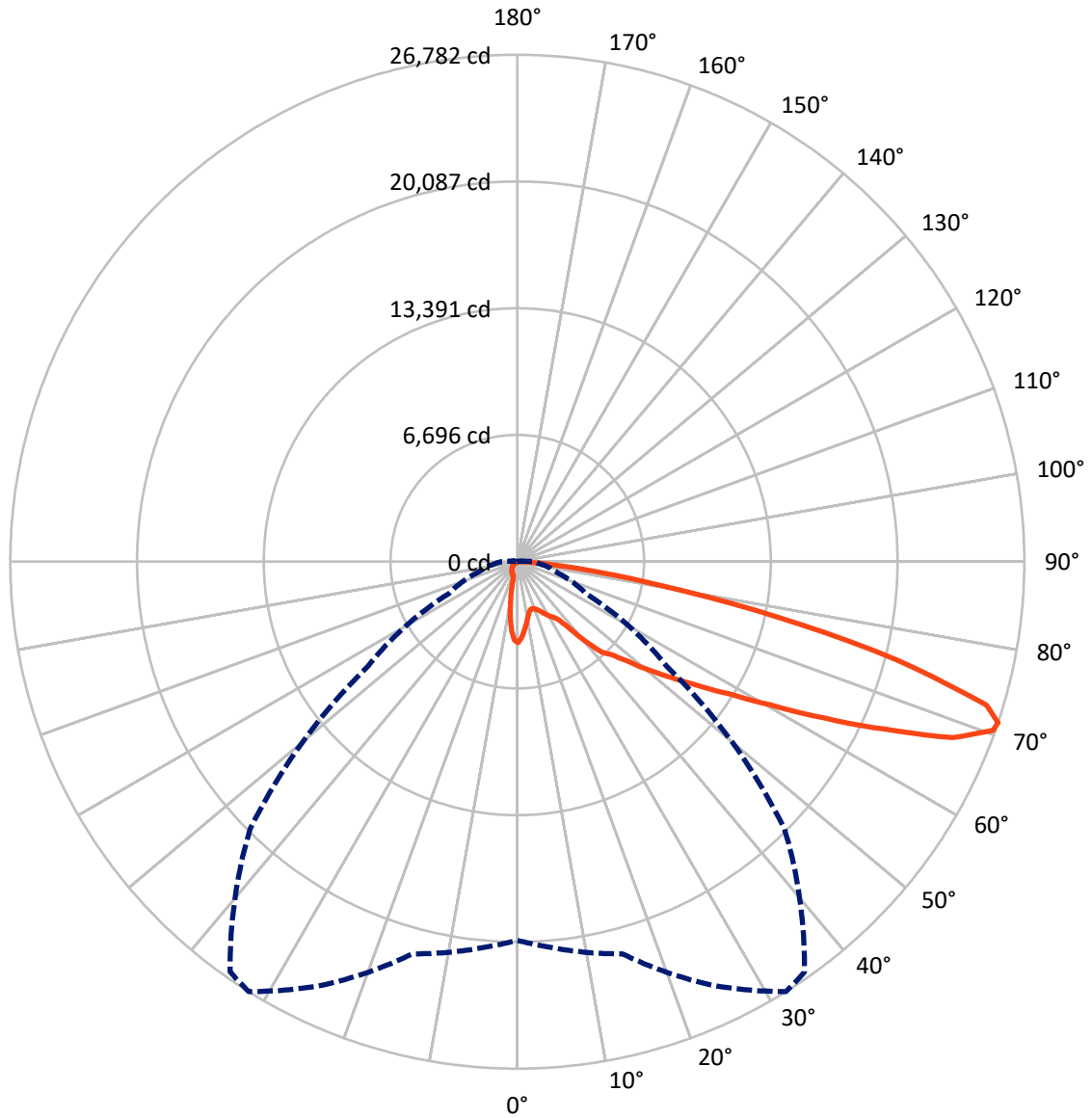
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2227.3	0.0	2227.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	24363.7	0.0	24363.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	26591.0	0.0	26591.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.7	1.3
10°-20°	754.7	2.8
20°-30°	1174.0	4.4
30°-40°	1955.9	7.4
40°-50°	3638.3	13.7
50°-60°	5841.4	22.0
60°-70°	7857.0	29.5
70°-80°	4661.7	17.5
80°-90°	360.3	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°	26591.0	100.0
0°-180°	26591.0	100.0



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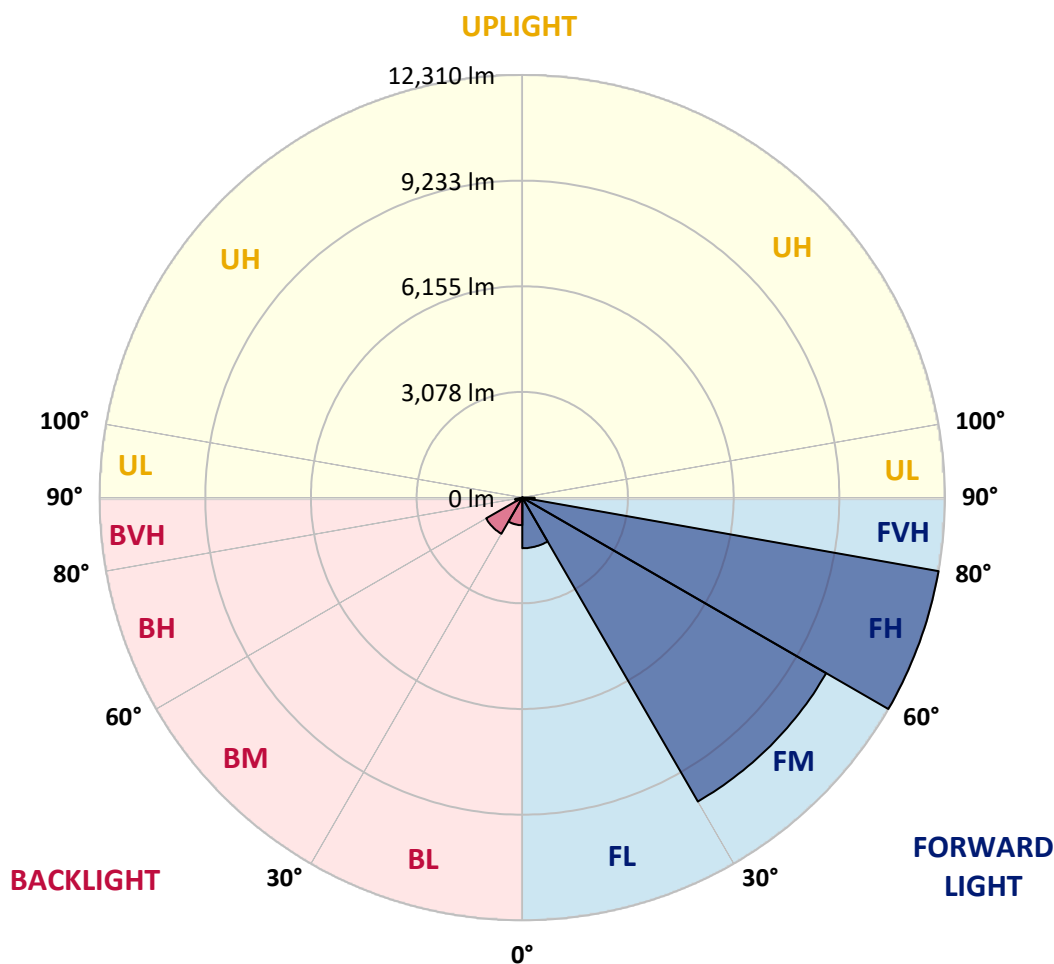
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1473.9	5.5			
FM	(30°-60°)	10220.6	38.4			
FH	(60°-80°)	12310.3	46.3			G5
FVH	(80°-90°)	358.9	1.3			G3/500
BL	(0°-30°)	802.5	3.0	B2/1000		
BM	(30°-60°)	1215.0	4.6	B2/2500		
BH	(60°-80°)	208.3	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°	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2
2.5°	3966.0	4006.8	4000.7	4015.0	4049.7	4064.0	4102.7	4145.6	4204.8	4245.6	4272.2
5°	3551.6	3582.3	3586.3	3657.8	3692.5	3731.3	3845.6	3970.1	4108.9	4219.1	4292.6
7.5°	3108.7	3125.0	3157.7	3251.6	3339.4	3378.1	3551.6	3768.0	3986.4	4192.6	4325.2
10°	2743.3	2761.7	2820.9	2920.9	3002.6	3053.6	3294.4	3565.9	3872.1	4178.3	4372.2
12.5°	2535.1	2545.3	2567.8	2657.6	2761.7	2816.8	3076.0	3386.3	3780.2	4184.4	4451.8
15°	2520.8	2516.8	2490.2	2527.0	2620.9	2678.0	2931.1	3263.8	3698.6	4204.8	4545.7
17.5°	2596.4	2586.2	2522.9	2522.9	2600.4	2647.4	2869.9	3198.5	3657.8	4251.8	4678.4
20°	2712.7	2696.4	2592.3	2584.1	2659.6	2708.6	2906.6	3202.6	3665.9	4339.5	4855.9
22.5°	2859.7	2841.3	2684.1	2688.2	2769.9	2818.9	3012.8	3276.1	3717.0	4447.7	5045.8
25°	3051.5	3031.1	2845.4	2837.2	2923.0	2965.8	3169.9	3406.7	3788.4	4582.4	5294.8
27.5°	3306.7	3263.8	3041.3	3029.1	3120.9	3176.1	3359.8	3582.3	3915.0	4768.2	5629.5
30°	3516.9	3470.0	3257.7	3225.0	3323.0	3365.9	3555.7	3819.0	4164.0	5092.7	6092.9
32.5°	3792.5	3723.1	3474.1	3388.3	3492.4	3547.6	3839.4	4259.9	4533.4	5435.6	6644.0
35°	4413.0	4370.1	4066.0	3766.0	3759.8	3829.2	4257.9	4704.9	4913.1	5970.4	7395.2
37.5°	5300.9	5270.3	4947.8	4545.7	4429.3	4396.7	4766.1	5194.8	5519.3	6705.2	8268.8
40°	6331.7	6260.3	5964.3	5623.4	5472.4	5376.4	5366.2	5923.5	6311.3	7703.4	9179.1
42.5°	7070.6	6940.0	6580.7	6556.2	6523.6	6423.6	6133.7	6989.0	7333.9	8777.0	10152.8
45°	7846.3	7648.3	7113.5	7021.6	7009.4	7003.2	7293.1	8250.4	8448.4	9940.5	11152.9
47.5°	8448.4	8291.2	7852.4	7811.6	7862.6	8001.4	8826.0	9589.4	9548.6	10977.4	11991.9
50°	9250.6	9132.2	8644.3	8721.9	8985.2	9211.8	10554.9	11048.8	10452.8	11793.9	12602.2
52.5°	10197.7	9979.3	9526.1	9736.4	10140.5	10518.1	12389.9	12326.6	11087.6	12408.3	13057.4
55°	11018.2	10863.1	10708.0	10926.4	11530.6	12002.1	14047.3	13283.9	11548.9	12902.2	13257.4
57.5°	12406.2	12369.5	12210.3	12432.8	13165.5	13655.4	15531.3	14026.9	11844.9	13159.4	13022.7
60°	14459.6	14400.4	14104.5	14388.2	15343.5	16113.0	16898.8	14694.4	11912.3	13059.4	12347.0
62.5°	16929.5	16727.4	16474.3	16892.7	18203.1	18542.0	18186.8	15090.4	11661.2	12263.3	10718.2
65°	19236.0	19027.8	19033.9	19915.7	21342.5	21573.1	19689.1	15031.2	10926.4	10269.1	7905.4
67.5°	21001.6	20966.9	21215.9	22936.6	24802.2	24643.0	21032.2	14145.3	8748.4	6656.3	4200.7
70°	21091.4	21158.8	21873.2	24777.7	26671.9	26418.8	20917.9	11497.9	5454.0	3061.8	1655.4
71°	20005.5	20458.6	21446.6	24720.6	26782.2	26453.5	19954.5	9630.2	4000.7	2135.1	1194.1
72.5°	17047.8	17286.7	19421.7	23265.2	25910.6	25208.4	17511.2	6750.1	2561.7	1306.3	685.8
75°	9389.4	9977.2	13006.3	18252.1	20724.0	20107.6	11412.2	3206.7	1277.8	714.4	283.7
77.5°	4470.2	4355.9	6346.0	10854.9	14051.4	14018.7	5750.0	1424.7	745.0	483.8	142.9
80°	1277.8	1437.0	2429.0	5160.1	7801.3	7887.1	2208.5	687.9	516.4	377.6	73.5
82.5°	385.8	393.9	892.0	2282.0	3880.3	3657.8	828.7	351.1	371.5	300.1	42.9
85°	67.4	83.7	263.3	804.2	1479.8	1122.6	208.2	167.4	244.9	198.0	24.5
87.5°	4.1	6.1	87.8	91.9	130.6	75.5	36.7	24.5	53.1	53.1	14.3
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°	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2	4276.2
2.5°	4290.5	4302.8	4294.6	4276.2	4245.6	4208.9	4159.9	4119.1	4084.4	4066.0	4088.5
5°	4317.1	4333.4	4292.6	4200.7	4061.9	3910.9	3739.4	3606.7	3502.6	3470.0	3457.7
7.5°	4357.9	4368.1	4257.9	4053.8	3759.8	3402.6	3090.3	2827.0	2622.9	2561.7	2471.9
10°	4411.0	4404.8	4196.6	3817.0	3300.6	2763.7	2280.0	1920.7	1649.3	1551.3	1543.1
12.5°	4492.6	4460.0	4119.1	3494.5	2753.5	2051.4	1453.3	1136.9	965.5	908.3	896.1
15°	4594.7	4517.1	3996.6	3116.9	2108.5	1324.7	896.1	800.1	777.7	773.6	769.5
17.5°	4715.1	4592.6	3835.4	2653.5	1481.9	859.3	749.1	747.1	749.1	745.0	743.0
20°	4878.4	4672.2	3643.5	2104.4	979.8	724.6	714.4	714.4	716.5	714.4	714.4
22.5°	5051.9	4766.1	3406.7	1606.4	738.9	687.9	685.8	689.9	694.0	692.0	692.0
25°	5266.2	4888.6	3094.4	1100.2	661.3	657.3	659.3	667.5	675.6	677.7	675.6
27.5°	5576.5	5039.6	2759.7	757.3	606.2	610.3	630.7	651.1	663.4	665.4	665.4
30°	5925.5	5207.0	2322.8	614.4	561.3	561.3	585.8	624.6	651.1	655.2	657.3
32.5°	6374.6	5400.9	1839.1	553.2	518.5	514.4	536.8	583.8	632.8	647.1	647.1
35°	6929.8	5629.5	1367.6	514.4	487.8	477.6	489.9	528.7	591.9	632.8	636.8
37.5°	7580.9	5845.9	1000.2	479.7	459.3	445.0	453.1	483.8	534.8	596.0	612.4
40°	8183.0	6037.8	747.1	451.1	430.7	420.5	426.6	440.9	483.8	540.9	551.1
42.5°	8840.3	6186.8	594.0	420.5	402.1	398.0	398.0	404.2	432.7	465.4	467.4
45°	9495.5	6239.9	498.0	383.7	371.5	375.6	373.5	369.5	381.7	377.6	377.6
47.5°	9962.9	6176.6	412.3	349.0	349.0	355.2	345.0	330.7	324.5	300.1	302.1
50°	10283.4	5945.9	338.8	308.2	324.5	332.7	312.3	289.8	267.4	240.9	234.7
52.5°	10416.1	5535.6	277.6	255.1	287.8	298.0	273.5	247.0	212.3	189.8	183.7
55°	10330.4	5029.4	230.7	208.2	242.9	255.1	230.7	200.0	161.3	136.8	132.7
57.5°	9952.7	4425.3	196.0	165.3	193.9	202.1	185.7	153.1	114.3	89.8	89.8
60°	9299.6	3800.7	159.2	130.6	144.9	157.2	140.8	110.2	77.6	55.1	51.0
62.5°	7974.8	3086.2	128.6	102.1	102.1	112.3	98.0	79.6	49.0	28.6	26.5
65°	5758.1	2116.7	102.1	75.5	73.5	73.5	61.2	53.1	28.6	12.2	8.2
67.5°	3129.1	1194.1	81.6	57.2	51.0	49.0	38.8	30.6	12.2	2.0	0.0
70°	1230.8	459.3	63.3	38.8	32.7	30.6	20.4	14.3	8.2	0.0	0.0
71°	834.8	316.4	55.1	32.7	26.5	22.5	16.3	12.2	6.1	0.0	0.0
72.5°	477.6	196.0	42.9	24.5	20.4	16.3	12.2	8.2	6.1	0.0	0.0
75°	208.2	100.0	26.5	18.4	14.3	10.2	8.2	6.1	2.0	0.0	0.0
77.5°	106.1	55.1	18.4	14.3	8.2	6.1	4.1	2.0	0.0	0.0	0.0
80°	59.2	28.6	12.2	8.2	6.1	4.1	2.0	2.0	0.0	0.0	0.0
82.5°	32.7	16.3	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	4.1	0.0	0.0	0.0	0.0	2.0	2.0	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)