

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: P453241

Luminaire Tested: **GALN-SA4B-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16778 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

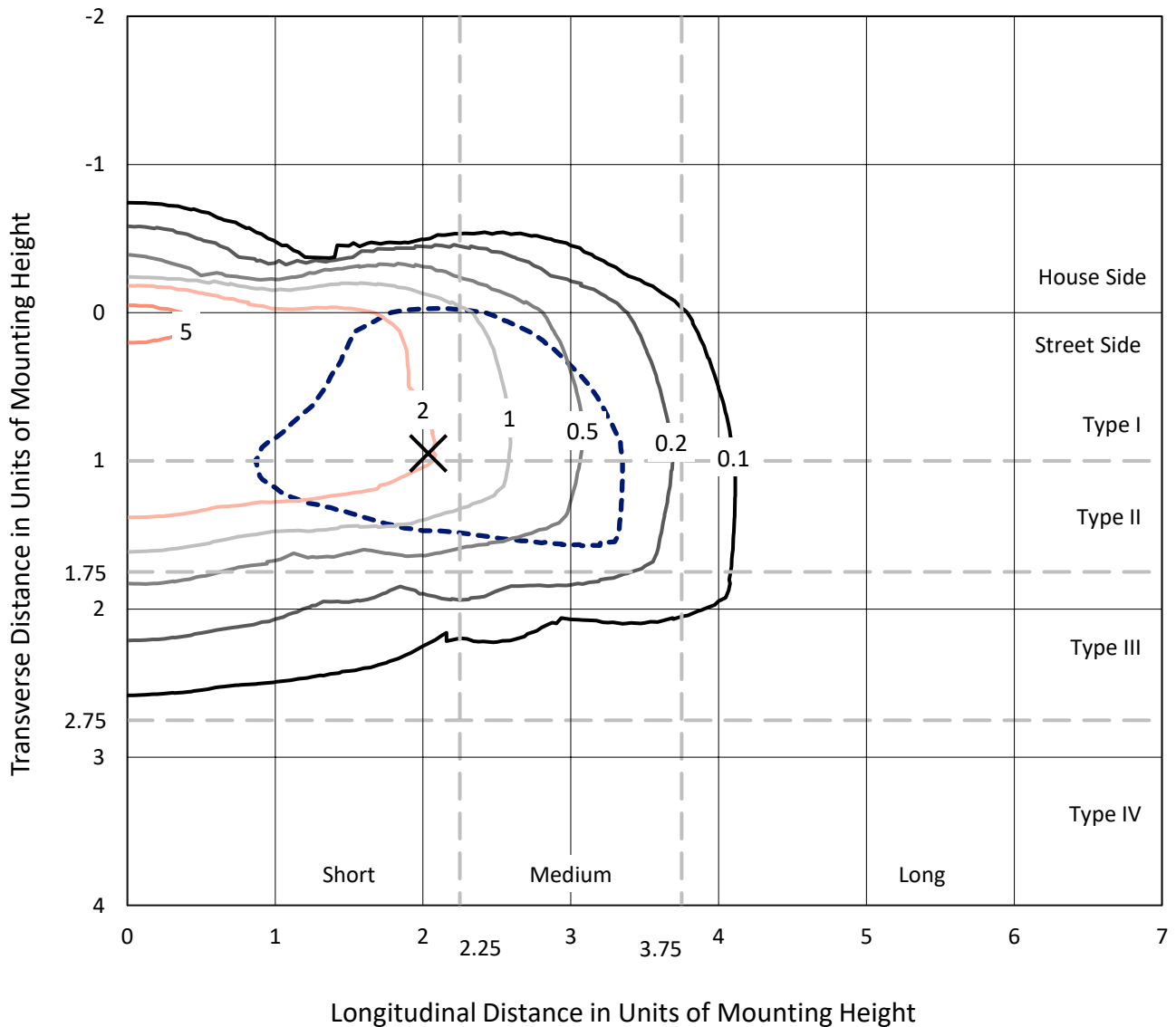
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453241
 CATALOG NUMBER: GALN-SA4B-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

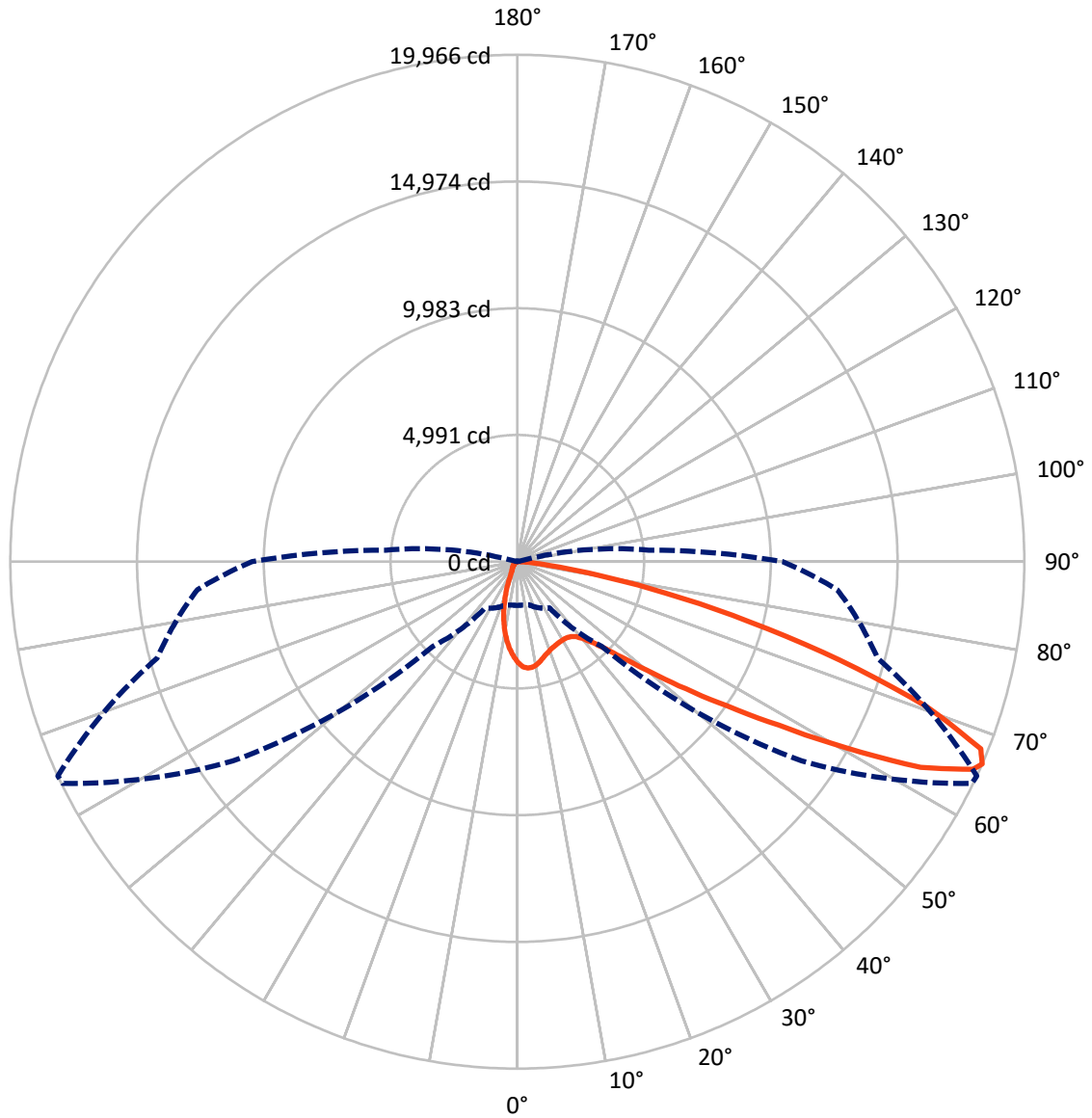
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P453241
CATALOG NUMBER: GALN-SA4B-730-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P453241

CATALOG NUMBER: GALN-SA4B-730-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.1	0.0	1735.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15042.9	0.0	15042.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	16778.0	0.0	16778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.4	1.9
10°-20°	709.0	4.2
20°-30°	1015.6	6.1
30°-40°	1483.4	8.8
40°-50°	2487.4	14.8
50°-60°	4151.1	24.7
60°-70°	4406.3	26.3
70°-80°	1995.6	11.9
80°-90°	204.2	1.2
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°	16778.0	100.0
0°-180°	16778.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453241

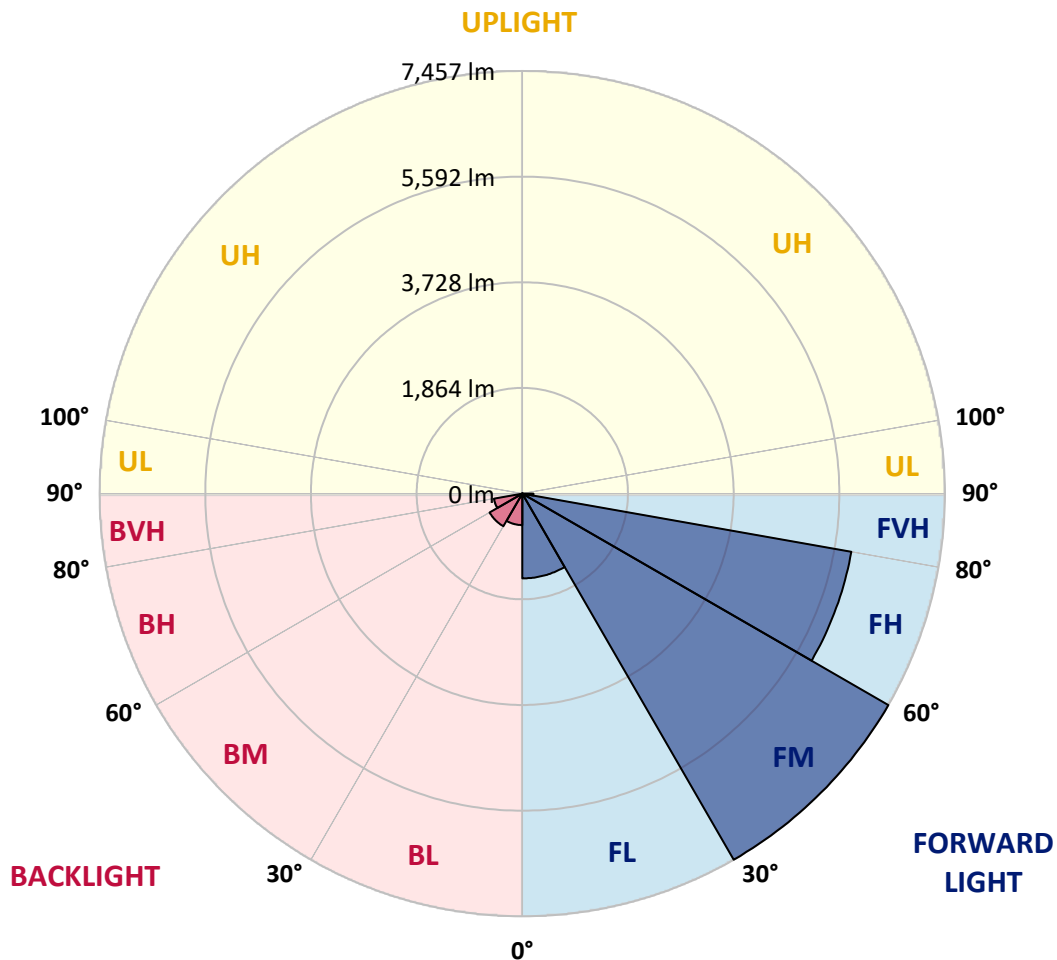
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.0	8.9			
FM (30°-60°)	7456.5	44.4			
FH (60°-80°)	5893.7	35.1			G3/7500
FVH (80°-90°)	197.7	1.2			G2/225
BL (0°-30°)	555.0	3.3	B2/1000		
BM (30°-60°)	665.4	4.0	B1/1000		
BH (60°-80°)	508.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.5	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-G3

Type II Short





REPORT NUMBER: P453241

CATALOG NUMBER: GALN-SA4B-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7
2.5°	4192.9	4197.4	4203.1	4211.0	4216.7	4199.7	4175.9	4148.7	4143.0	4085.2	4014.9
5°	3968.5	3975.3	4025.1	4052.3	4113.5	4169.1	4204.2	4208.7	4206.5	4152.1	4039.9
7.5°	3648.9	3668.2	3716.9	3764.5	3879.0	3984.3	4109.0	4196.3	4201.9	4187.2	4047.8
10°	3389.4	3401.9	3426.8	3520.9	3616.1	3777.0	3951.5	4115.8	4129.4	4188.3	4041.0
12.5°	3186.6	3204.7	3235.3	3307.8	3422.3	3574.1	3772.4	3993.4	4021.7	4166.8	4021.7
15°	3044.9	3054.0	3084.6	3156.0	3267.0	3407.5	3608.1	3865.4	3890.3	4138.5	4018.3
17.5°	2978.1	2988.3	3009.8	3066.5	3158.2	3288.6	3484.6	3762.2	3794.0	4120.3	4030.8
20°	2996.2	3005.3	3006.4	3035.9	3098.2	3208.1	3393.9	3665.9	3706.7	4109.0	4051.2
22.5°	3099.3	3100.4	3086.9	3073.3	3094.8	3174.1	3338.4	3604.7	3646.7	4106.7	4075.0
25°	3253.4	3256.8	3234.2	3186.6	3143.5	3184.3	3326.0	3565.1	3602.5	4101.1	4089.7
27.5°	3466.5	3465.3	3458.5	3379.2	3256.8	3229.6	3336.2	3543.5	3575.3	4085.2	4095.4
30°	3764.5	3755.4	3740.7	3651.2	3464.2	3339.6	3379.2	3529.9	3559.4	4062.5	4080.7
32.5°	4058.0	4092.0	4089.7	4004.7	3771.3	3535.6	3468.7	3548.1	3569.6	4047.8	4059.1
35°	4400.2	4399.1	4486.4	4454.6	4181.5	3786.0	3621.7	3608.1	3625.1	4058.0	4048.9
37.5°	4717.5	4747.0	4883.0	4915.8	4666.5	4139.6	3838.2	3737.3	3743.0	4127.1	4073.9
40°	5113.0	5169.7	5372.5	5482.4	5262.6	4664.3	4157.7	3974.1	3975.3	4297.1	4167.9
42.5°	5623.0	5712.5	5901.7	6085.3	5967.5	5285.3	4637.1	4349.2	4347.0	4596.3	4383.2
45°	6242.8	6305.2	6520.5	6811.7	6736.9	6152.2	5335.1	4930.6	4901.1	5087.0	4765.1
47.5°	6777.7	6862.7	7081.4	7413.4	7753.4	7210.6	6169.2	5729.5	5710.2	5867.7	5420.1
50°	7011.1	7085.9	7316.0	7781.7	8605.6	8599.9	7411.2	6895.6	6862.7	6947.7	6433.2
52.5°	6755.0	6825.3	7057.6	7637.8	9006.7	10292.9	9210.7	8358.5	8318.9	8210.1	7643.5
55°	5877.9	5935.7	6279.1	6945.4	8852.6	11421.6	11690.1	10166.0	10011.9	9589.2	9013.5
57.5°	4680.1	4650.7	4863.7	5637.7	7948.3	11800.1	14235.3	12417.7	12142.3	10781.3	10172.8
60°	3243.2	3333.9	3420.0	3930.0	5976.5	11143.9	15818.4	15248.4	14885.8	11954.2	11283.3
62.5°	2384.3	2444.3	2501.0	2736.7	3757.7	8897.9	16098.3	18156.2	17834.4	13199.6	12342.9
65°	1885.7	1890.2	1912.8	2145.2	2476.1	5786.1	14753.2	19796.0	19713.2	14398.5	12772.4
66°	1717.9	1719.1	1754.2	2003.5	2222.2	4711.9	13675.5	19920.6	19965.9	14686.3	12646.6
67.5°	1501.5	1497.0	1548.0	1800.7	2023.9	3397.3	11746.8	19415.2	19683.8	14907.3	12194.4
70°	1163.8	1158.1	1220.5	1510.6	1864.1	2266.4	7807.8	16670.6	17103.5	14455.2	10789.2
72.5°	775.1	779.6	886.2	1192.1	1779.1	1995.6	4697.1	12681.7	13293.6	11937.2	8487.7
75°	452.1	460.1	581.3	886.2	1544.6	1902.7	2658.5	9043.0	9433.9	8242.9	5287.5
77.5°	236.8	240.2	325.2	584.7	1184.2	1766.7	1771.2	5777.1	5960.7	4005.9	2093.0
80°	125.8	122.4	174.5	352.4	814.8	1551.4	1436.9	3058.5	3179.8	1189.9	529.2
82.5°	47.6	52.1	92.9	231.2	481.6	1113.9	1237.5	1351.9	1310.0	261.8	222.1
85°	9.1	11.3	39.7	137.1	242.5	465.7	912.2	662.9	614.2	98.6	128.1
87.5°	1.1	2.3	11.3	32.9	35.1	157.5	269.7	183.6	158.6	36.3	53.3
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°	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7	3978.7
2.5°	3980.9	3950.4	3848.4	3747.5	3644.4	3551.5	3488.0	3384.9	3358.8	3321.4	3299.9
5°	3973.0	3901.6	3705.6	3491.4	3292.0	3076.7	2912.3	2753.7	2668.7	2625.6	2609.8
7.5°	3950.4	3837.0	3531.1	3195.6	2876.1	2554.2	2274.3	2061.3	1924.2	1830.1	1766.7
10°	3905.0	3748.6	3328.2	2867.0	2384.3	1959.3	1604.6	1334.9	1126.4	1060.7	1062.9
12.5°	3858.6	3650.1	3101.6	2502.1	1903.8	1367.8	991.6	778.5	678.8	645.9	639.1
15°	3815.5	3556.0	2879.5	2148.6	1417.6	886.2	639.1	564.3	537.1	531.5	530.3
17.5°	3792.8	3468.7	2642.6	1744.0	989.3	601.7	512.2	491.8	483.9	478.2	475.9
20°	3773.6	3392.8	2416.0	1365.5	676.5	492.9	458.9	439.7	426.1	420.4	417.0
22.5°	3760.0	3314.6	2181.4	1057.3	517.9	437.4	406.8	381.9	362.6	355.8	351.3
25°	3739.6	3228.5	1944.6	772.8	436.3	388.7	353.6	324.1	299.2	286.7	284.4
27.5°	3710.1	3131.0	1685.1	572.3	389.8	345.6	302.6	266.3	241.4	227.8	228.9
30°	3662.5	3029.1	1425.6	454.4	352.4	301.4	255.0	219.8	196.0	185.8	184.7
32.5°	3605.9	2905.5	1187.6	389.8	318.4	261.8	213.0	182.4	164.3	156.4	155.2
35°	3552.6	2780.9	945.1	350.2	283.3	225.5	179.0	153.0	139.4	132.6	133.7
37.5°	3523.1	2669.8	736.6	318.4	255.0	193.8	154.1	131.5	119.0	113.3	112.2
40°	3542.4	2579.2	585.9	290.1	223.2	166.6	132.6	113.3	100.9	92.9	92.9
42.5°	3633.1	2539.5	472.5	262.9	193.8	143.9	115.6	97.5	83.9	75.9	77.1
45°	3909.6	2581.4	395.5	238.0	166.6	124.7	99.7	80.5	68.0	62.3	61.2
47.5°	4368.5	2739.0	342.2	211.9	142.8	106.5	83.9	66.9	54.4	49.9	48.7
50°	5170.8	3064.2	302.6	185.8	121.3	90.7	69.1	53.3	43.1	38.5	38.5
52.5°	6274.6	3773.6	274.2	156.4	102.0	77.1	56.7	43.1	34.0	30.6	29.5
55°	7428.2	4521.5	259.5	131.5	85.0	63.5	45.3	34.0	26.1	22.7	21.5
57.5°	8537.6	5108.5	242.5	106.5	68.0	48.7	35.1	26.1	18.1	15.9	14.7
60°	9601.6	5583.3	206.2	85.0	53.3	35.1	26.1	18.1	12.5	10.2	10.2
62.5°	10553.5	5859.8	162.0	68.0	40.8	24.9	17.0	13.6	9.1	6.8	6.8
65°	10664.6	5500.6	122.4	52.1	29.5	15.9	10.2	10.2	6.8	4.5	4.5
66°	10441.4	5195.7	107.7	47.6	26.1	13.6	9.1	7.9	5.7	3.4	3.4
67.5°	9942.7	4675.6	92.9	40.8	21.5	10.2	6.8	6.8	4.5	2.3	2.3
70°	8590.8	3818.9	73.7	30.6	15.9	7.9	4.5	4.5	3.4	2.3	2.3
72.5°	6547.7	2851.1	60.1	22.7	11.3	5.7	3.4	3.4	3.4	2.3	2.3
75°	3949.2	1535.5	46.5	17.0	10.2	4.5	2.3	3.4	4.5	3.4	2.3
77.5°	1455.0	522.4	36.3	13.6	7.9	4.5	2.3	2.3	4.5	3.4	3.4
80°	357.0	136.0	26.1	11.3	7.9	4.5	2.3	2.3	4.5	4.5	4.5
82.5°	165.4	57.8	18.1	10.2	7.9	4.5	2.3	2.3	3.4	4.5	4.5
85°	95.2	27.2	14.7	11.3	7.9	4.5	2.3	2.3	3.4	4.5	4.5
87.5°	38.5	13.6	13.6	11.3	9.1	5.7	2.3	2.3	2.3	3.4	3.4
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)