

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: P452579

Luminaire Tested: **GALN-SA3C-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20543 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

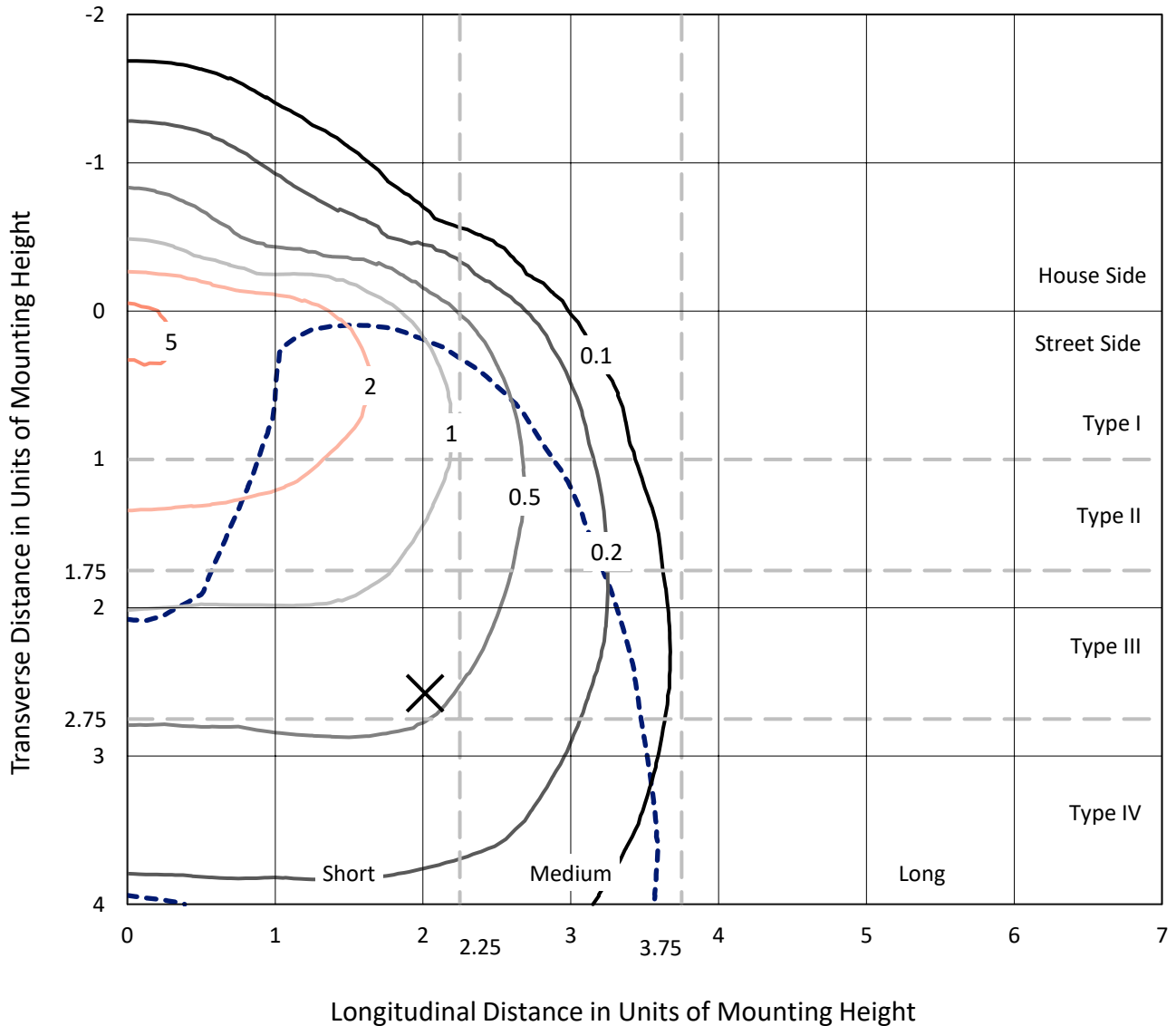
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452579
 CATALOG NUMBER: GALN-SA3C-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

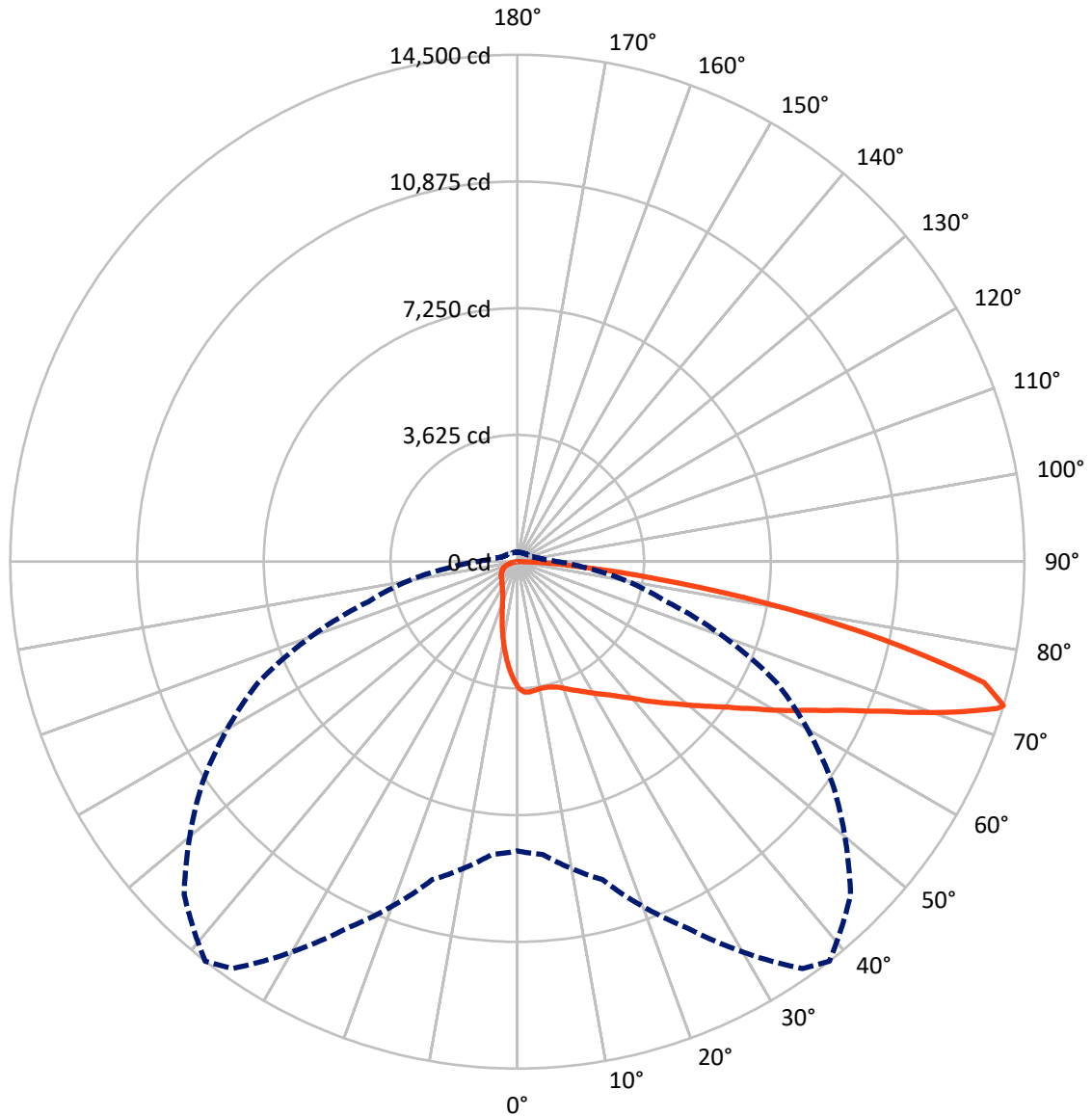
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P452579
CATALOG NUMBER: GALN-SA3C-740-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2761.6	0.0	2761.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17781.4	0.0	17781.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	20543.0	0.0	20543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	1.5
10°-20°	807.8	3.9
20°-30°	1258.0	6.1
30°-40°	1845.1	9.0
40°-50°	2737.1	13.3
50°-60°	3877.9	18.9
60°-70°	4919.2	23.9
70°-80°	4094.9	19.9
80°-90°	688.0	3.3
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°	20543.0	100.0
0°-180°	20543.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452579

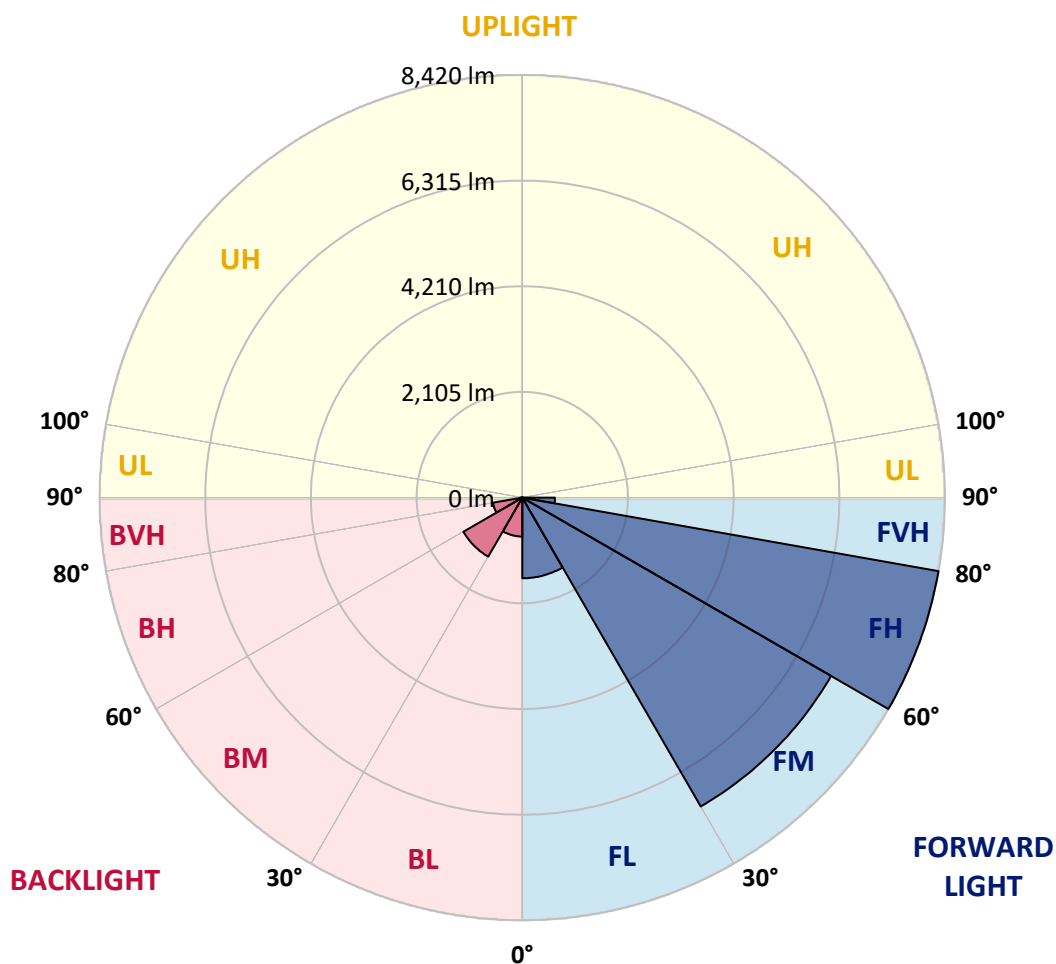
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1605.9	7.8			
FM	(30°-60°)	7104.3	34.6			
FH	(60°-80°)	8420.5	41.0			G4/12000
FVH	(80°-90°)	650.7	3.2			G4/750
BL	(0°-30°)	774.9	3.8	B2/1000		
BM	(30°-60°)	1355.8	6.6	B2/2500		
BH	(60°-80°)	593.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	37.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P452579

CATALOG NUMBER: GALN-SA3C-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1
2.5°	3754.1	3772.6	3763.3	3750.6	3742.5	3734.3	3722.7	3689.1	3662.4	3633.4	3588.2
5°	3781.9	3793.5	3785.4	3769.2	3750.6	3742.5	3720.4	3676.3	3633.4	3584.7	3517.4
7.5°	3765.7	3770.3	3761.0	3741.3	3725.1	3710.0	3684.5	3635.7	3583.5	3524.4	3436.2
10°	3707.7	3725.1	3725.1	3708.8	3692.6	3684.5	3658.9	3612.5	3565.0	3497.7	3393.3
12.5°	3660.1	3678.7	3693.7	3689.1	3687.9	3687.9	3668.2	3633.4	3577.7	3513.9	3389.8
15°	3627.6	3649.7	3682.1	3700.7	3712.3	3715.8	3707.7	3677.5	3620.7	3546.4	3403.7
17.5°	3620.7	3647.3	3706.5	3747.1	3777.3	3776.1	3773.8	3732.0	3669.4	3592.8	3421.1
20°	3652.0	3686.8	3769.2	3833.0	3877.0	3868.9	3856.2	3801.6	3728.5	3642.7	3437.4
22.5°	3745.9	3781.9	3872.4	3942.0	3984.9	3984.9	3946.6	3874.7	3797.0	3700.7	3459.4
25°	3880.5	3920.0	4016.3	4087.0	4106.7	4091.7	4053.4	3966.4	3877.0	3784.2	3505.8
27.5°	4045.3	4092.8	4182.1	4241.3	4235.5	4223.9	4184.5	4073.1	3983.8	3899.1	3584.7
30°	4250.6	4285.4	4378.2	4392.1	4371.2	4368.9	4313.2	4201.9	4118.3	4053.4	3697.2
32.5°	4444.3	4475.6	4549.9	4555.7	4518.6	4523.2	4471.0	4368.9	4321.4	4298.2	3886.3
35°	4649.7	4665.9	4729.7	4722.7	4698.4	4694.9	4674.0	4576.6	4591.7	4633.4	4154.3
37.5°	4821.4	4853.8	4889.8	4895.6	4894.4	4906.0	4920.0	4873.6	4960.6	5091.7	4505.8
40°	4979.1	5007.0	5060.3	5078.9	5124.1	5147.3	5194.9	5196.1	5396.8	5612.5	4938.5
42.5°	5085.9	5133.4	5233.2	5266.8	5377.0	5446.6	5517.4	5592.8	5884.0	6161.3	5449.0
45°	5178.7	5241.3	5407.2	5511.6	5661.3	5746.0	5895.6	6053.4	6472.2	6835.3	5967.5
47.5°	5319.0	5374.7	5565.0	5749.4	5975.7	6073.1	6297.0	6532.5	7080.1	7478.0	6464.1
50°	5513.9	5547.6	5741.3	6041.8	6330.6	6455.9	6751.8	7091.7	7729.7	8112.5	6900.2
52.5°	5763.4	5777.3	5931.6	6331.8	6712.3	6867.8	7259.9	7656.6	8298.2	8663.6	7246.0
55°	6058.0	6034.8	6155.5	6639.2	7148.5	7351.5	7772.6	8228.6	8937.4	9109.1	7497.7
57.5°	6349.2	6313.2	6409.5	7012.8	7686.8	7931.6	8422.3	8817.9	9508.1	9525.5	7674.0
60°	6657.8	6631.1	6746.0	7451.3	8346.9	8636.9	9090.5	9429.3	10060.3	9815.6	7701.9
62.5°	6974.5	6931.6	7095.1	7944.3	9090.5	9353.8	9793.5	10078.9	10602.1	9923.5	7433.9
65°	7281.9	7262.2	7515.1	8530.2	9937.4	10236.7	10663.6	10857.3	11036.0	9761.0	6769.2
67.5°	7609.1	7648.5	8052.2	9312.1	11041.8	11417.7	11878.2	11696.1	11160.1	8991.9	5700.7
70°	8107.9	8133.4	8757.6	10336.5	12465.2	12918.8	13141.6	11994.2	10561.5	7531.3	4285.4
72.5°	8322.5	8435.1	9387.5	11411.9	14082.4	14359.7	13566.2	11329.5	8798.2	5116.0	2251.7
73°	8275.0	8409.5	9416.5	11575.4	14208.8	14500.0	13475.7	10987.3	8178.7	4406.0	1930.4
75°	7682.2	7848.0	9039.5	11438.5	13962.9	13788.9	12020.9	9364.3	5526.7	2003.5	879.4
77.5°	6061.5	6109.1	7162.4	9236.7	10995.4	10672.9	8996.5	5852.7	2257.5	744.8	498.8
80°	3040.6	3215.8	4037.1	5291.2	7352.7	7247.1	5678.7	2768.0	940.8	437.4	330.6
82.5°	1462.9	1587.0	1966.4	2580.1	4062.7	3966.4	2812.1	1512.8	597.4	255.2	194.9
85°	942.0	1034.8	1251.7	1230.9	1670.5	1595.1	1263.3	1145.0	353.8	133.4	135.7
87.5°	621.8	681.0	816.7	653.1	607.9	549.9	558.0	645.0	69.6	51.0	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452579
 CATALOG NUMBER: GALN-SA3C-740-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1	3609.1
2.5°	3569.6	3554.5	3504.6	3455.9	3409.5	3365.4	3336.4	3298.2	3272.6	3279.6	3290.0
5°	3480.3	3446.6	3358.5	3272.6	3191.4	3095.1	3017.4	2954.8	2907.2	2889.8	2886.3
7.5°	3386.3	3329.5	3203.0	3055.7	2917.6	2798.2	2660.1	2591.7	2511.6	2483.8	2474.5
10°	3329.5	3252.9	3075.4	2870.1	2662.4	2464.0	2314.4	2192.6	2082.4	2061.5	2051.0
12.5°	3313.2	3212.3	2973.3	2708.8	2432.7	2189.1	1967.5	1807.4	1700.7	1676.3	1640.4
15°	3304.0	3178.7	2878.2	2546.4	2196.1	1899.1	1665.9	1479.1	1381.7	1316.7	1317.9
17.5°	3295.8	3140.4	2771.5	2368.9	1991.9	1649.7	1392.1	1223.9	1134.6	1099.8	1096.3
20°	3284.2	3095.1	2648.5	2182.1	1758.7	1422.3	1189.1	1063.8	1003.5	974.5	973.3
22.5°	3279.6	3051.1	2527.8	1991.9	1552.2	1247.1	1054.5	966.4	928.1	908.4	908.4
25°	3291.2	3019.7	2401.4	1810.9	1368.9	1097.5	961.7	901.4	879.4	868.9	865.4
27.5°	3327.2	3005.8	2276.1	1629.9	1200.7	995.4	899.1	857.3	841.1	832.9	834.1
30°	3395.6	3004.6	2153.1	1451.3	1075.4	917.6	849.2	820.2	807.4	802.8	801.6
32.5°	3505.8	3030.2	2032.5	1303.9	969.8	852.7	802.8	781.9	776.1	772.6	771.5
35°	3692.6	3102.1	1913.0	1169.4	888.6	794.7	758.7	748.3	740.1	743.6	744.8
37.5°	3944.3	3226.2	1799.3	1063.8	827.1	751.7	721.6	712.3	707.7	711.1	714.6
40°	4281.9	3404.9	1704.2	979.1	783.1	715.8	689.1	681.0	676.3	682.1	683.3
42.5°	4654.3	3611.4	1625.3	913.0	747.1	685.6	660.1	650.8	647.3	650.8	652.0
45°	5037.1	3851.5	1584.7	865.4	716.9	663.6	636.9	626.5	618.3	616.0	619.5
47.5°	5414.2	4060.3	1583.5	836.4	692.6	643.9	614.9	603.2	592.8	587.0	585.8
50°	5721.6	4226.2	1611.4	823.7	671.7	621.8	592.8	581.2	567.3	555.7	558.0
52.5°	5953.6	4334.1	1624.1	817.9	660.1	598.6	569.6	559.2	542.9	527.8	527.8
55°	6103.3	4359.6	1592.8	812.1	650.8	574.2	542.9	533.6	517.4	502.3	502.3
57.5°	6154.3	4280.8	1480.3	798.1	641.5	553.4	516.2	508.1	495.4	480.3	478.0
60°	6036.0	4013.9	1283.1	756.4	623.0	531.3	487.2	483.8	479.1	466.4	465.2
62.5°	5580.1	3447.8	1068.4	701.9	591.6	508.1	460.6	466.4	469.8	462.9	461.7
65°	4821.4	2799.3	913.0	626.5	549.9	475.6	431.6	446.6	455.9	455.9	453.6
67.5°	3910.7	2149.7	769.1	561.5	497.7	431.6	399.1	410.7	417.6	415.3	421.1
70°	2779.6	1455.9	626.5	487.2	431.6	381.7	357.3	357.3	352.7	350.3	350.3
72.5°	1348.0	831.8	508.1	407.2	367.8	326.0	306.3	298.1	288.9	287.7	281.9
73°	1126.5	745.9	484.9	392.1	352.7	317.9	295.8	283.1	277.3	272.6	271.5
75°	685.6	566.1	404.9	330.6	300.5	273.8	254.1	242.5	236.7	233.2	232.0
77.5°	451.3	422.3	314.4	252.9	229.7	213.5	205.3	193.7	190.3	185.6	185.6
80°	336.4	322.5	225.1	178.7	164.7	150.8	148.5	146.2	136.9	131.1	128.8
82.5°	216.9	229.7	153.1	119.5	104.4	92.8	94.0	97.4	88.2	80.0	77.7
85°	154.3	165.9	92.8	54.5	44.1	38.3	42.9	38.3	39.4	31.3	25.5
87.5°	25.5	44.1	16.2	7.0	3.5	2.3	0.0	0.0	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)