

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: STREETWORKS

Report Number: P299995

Luminaire Tested: **GAA-AF-05-LED-U-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-SL3-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI
3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III w/Spill
Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18041.6 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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: 28.75 FT

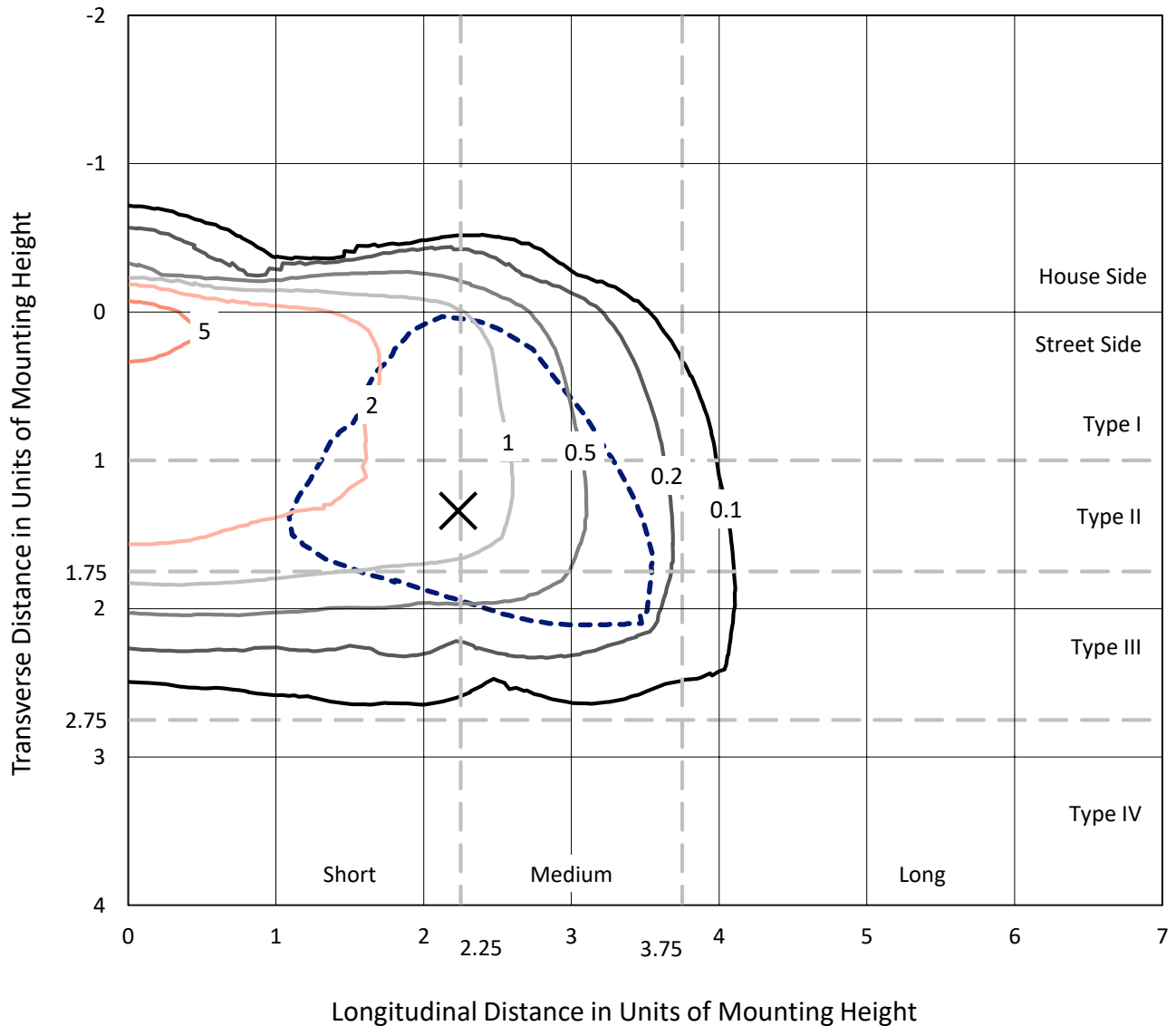


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

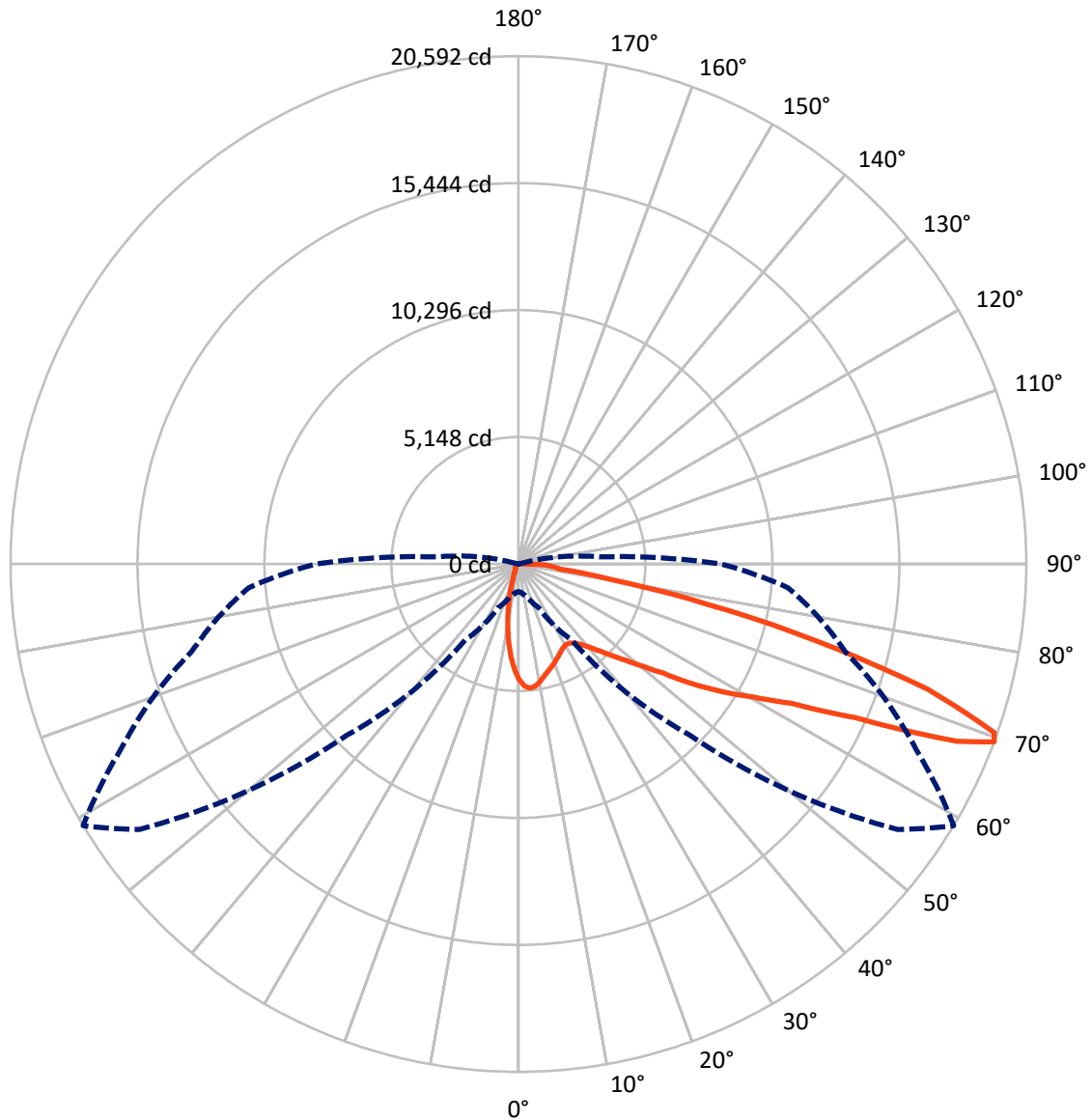


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.2	0.0	1469.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	16572.4	0.0	16572.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	18041.6	0.0	18041.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.2	2.1
10°-20°	787.6	4.4
20°-30°	1059.8	5.9
30°-40°	1538.8	8.5
40°-50°	2562.2	14.2
50°-60°	3997.0	22.2
60°-70°	4946.0	27.4
70°-80°	2506.6	13.9
80°-90°	262.3	1.5
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°	18041.6	100.0
0°-180°	18041.6	100.0



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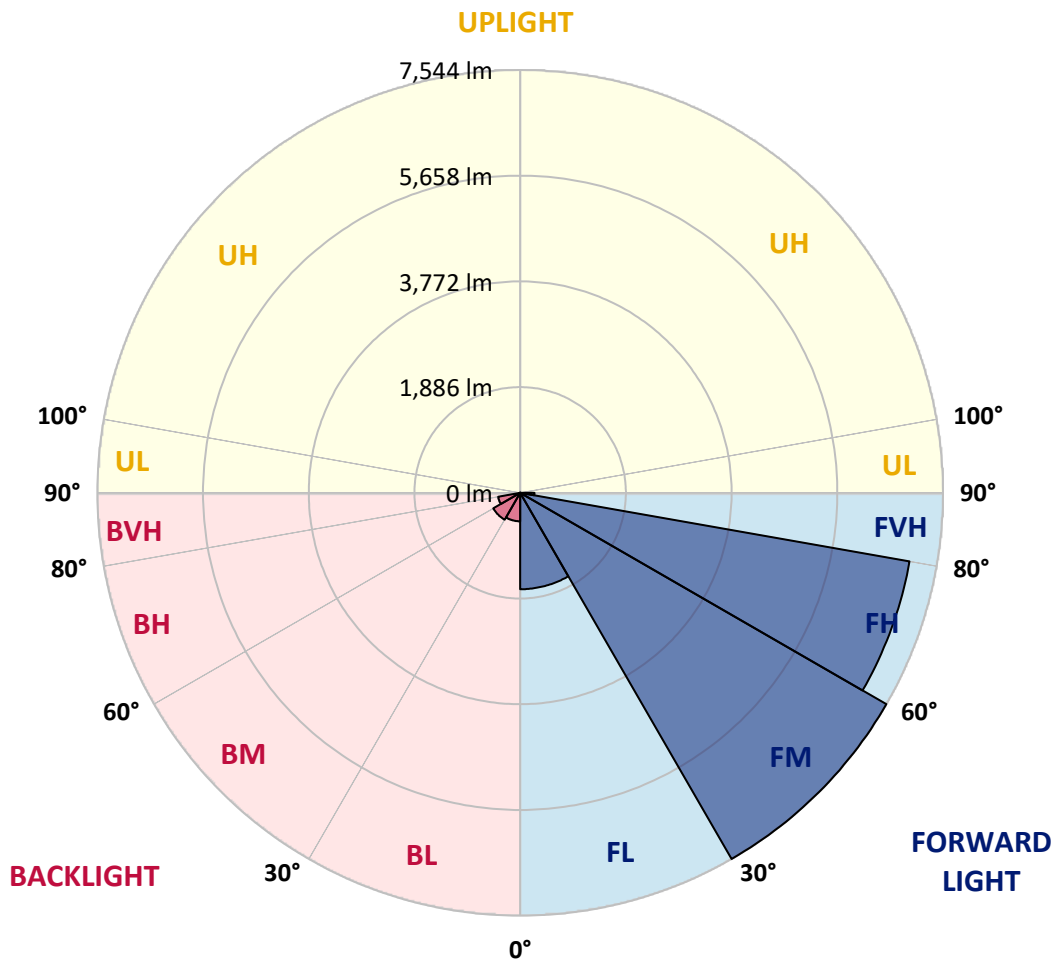
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.1	9.5			
FM	(30°-60°)	7544.5	41.8			
FH	(60°-80°)	7053.6	39.1			G3/7500
FVH	(80°-90°)	254.2	1.4			G3/500
BL	(0°-30°)	508.5	2.8	B2/1000		
BM	(30°-60°)	553.6	3.1	B1/1000		
BH	(60°-80°)	399.0	2.2	B1/500		G1/500
BVH	(80°-90°)	8.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9
2.5°	5146.9	5145.0	5122.5	5112.3	5093.7	5055.1	4994.9	4963.4	4912.4	4823.5	4704.2
5°	5099.9	5124.6	5137.6	5138.8	5152.1	5137.6	5083.5	5057.3	4986.9	4843.8	4629.8
7.5°	4781.8	4790.7	4828.7	4861.1	4924.5	4984.7	5004.2	4992.7	4951.0	4798.1	4513.3
10°	4441.1	4450.0	4495.1	4537.7	4623.6	4716.3	4814.2	4834.9	4852.2	4732.6	4401.2
12.5°	4147.0	4156.3	4202.3	4258.2	4358.3	4472.6	4624.5	4658.2	4734.8	4670.6	4311.3
15°	3894.0	3898.1	3943.2	4012.3	4131.9	4278.6	4451.3	4505.3	4622.7	4626.7	4232.9
17.5°	3678.8	3688.9	3716.7	3782.8	3913.5	4095.1	4296.2	4373.7	4511.2	4589.9	4156.3
20°	3547.2	3557.4	3556.4	3593.2	3710.6	3904.2	4141.1	4233.8	4401.2	4552.3	4088.0
22.5°	3521.8	3521.8	3495.3	3490.0	3559.5	3721.7	3979.9	4093.0	4302.1	4535.9	4040.1
25°	3612.7	3608.3	3542.2	3488.2	3491.3	3587.9	3823.6	3958.3	4218.7	4547.0	4014.5
27.5°	3804.5	3799.2	3715.5	3612.7	3529.9	3528.9	3705.3	3850.2	4152.3	4600.1	4024.7
30°	4069.5	4067.6	3976.8	3847.1	3697.3	3559.5	3664.5	3796.1	4109.3	4695.9	4048.2
32.5°	4359.2	4356.1	4287.9	4151.3	3961.4	3697.3	3707.5	3817.7	4121.7	4823.5	4105.3
35°	4666.5	4661.3	4631.6	4512.4	4303.3	3951.2	3848.3	3933.9	4199.2	5014.3	4217.4
37.5°	4998.9	5004.2	5025.5	4911.2	4691.9	4307.3	4084.0	4142.1	4355.2	5273.5	4400.0
40°	5489.7	5488.8	5495.9	5345.8	5134.8	4742.8	4413.3	4431.8	4616.5	5617.3	4677.7
42.5°	6380.2	6318.1	6129.4	5823.3	5611.1	5240.8	4828.7	4809.2	4935.9	6042.6	5066.2
45°	7577.1	7444.3	6954.7	6368.2	6096.7	5802.0	5339.6	5277.5	5358.1	6553.8	5545.9
47.5°	8606.3	8468.5	7776.0	6935.3	6611.9	6334.5	5938.5	5826.4	5853.0	7126.2	6153.8
50°	8956.3	8888.9	8284.1	7429.2	7110.7	7004.8	6633.5	6496.7	6459.0	7788.1	6858.7
52.5°	8834.9	8829.9	8426.8	7749.5	7567.8	7698.5	7507.6	7349.5	7210.8	8486.1	7575.9
55°	8640.0	8665.6	8484.9	8029.9	8023.8	8332.0	8703.3	8571.7	8169.9	9244.1	8194.3
57.5°	8102.5	8211.6	8452.5	8560.6	8811.4	9126.8	9699.1	9776.6	9301.3	9824.5	8707.3
60°	6574.2	6813.9	7601.5	8636.9	9826.7	10612.2	10901.0	10967.1	10229.5	10307.0	9400.1
62.5°	4666.5	4911.2	5910.1	7661.7	9841.8	12563.7	12691.2	12431.2	11251.9	11022.4	10594.9
65°	2476.9	2665.9	3482.0	5530.5	8533.1	13016.8	15822.3	15047.1	13055.4	12429.0	12138.3
67.5°	1267.0	1324.2	1648.8	2706.7	5866.2	11562.0	18628.8	19174.6	16164.0	13824.8	12063.9
69°	1121.2	1154.9	1370.2	1956.7	3756.3	9793.0	18765.6	20591.7	17791.4	13708.4	10963.0
70°	1085.4	1115.1	1310.9	1771.1	2936.2	8212.5	18242.1	20467.3	18207.5	13265.7	10140.8
72.5°	921.4	946.7	1167.3	1565.1	2386.4	4076.6	14818.5	17343.6	16338.5	11050.8	7340.2
75°	616.2	699.9	1120.3	1467.2	2219.9	2316.0	9769.5	12533.1	11642.6	7453.6	3823.6
77.5°	148.0	159.1	316.3	1167.3	2030.3	2038.3	5024.5	7791.2	6354.9	2656.7	903.8
80°	79.7	76.6	88.6	231.7	1890.3	1912.9	2261.9	3781.9	2269.0	440.8	297.8
82.5°	56.2	53.1	57.1	97.0	594.9	1742.4	1636.4	1711.8	940.5	169.3	133.7
85°	20.4	19.5	31.5	87.7	186.6	1001.7	1681.2	1411.9	762.0	77.5	97.9
87.5°	7.1	6.2	12.4	47.9	57.1	426.6	1037.5	1067.2	299.9	46.9	46.0
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°	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9
2.5°	4654.2	4590.9	4474.7	4355.2	4244.9	4112.4	4046.0	3980.8	3953.3	3943.2	3895.3
5°	4519.5	4412.3	4165.5	3917.5	3688.9	3446.2	3286.2	3157.7	3082.0	3045.2	2987.2
7.5°	4347.2	4171.7	3797.1	3414.7	3058.5	2707.6	2447.6	2247.4	2109.6	2043.5	1983.3
10°	4179.8	3946.2	3413.7	2892.3	2408.6	1943.5	1584.2	1324.2	1158.0	1081.4	1032.6
12.5°	4029.9	3726.9	3043.4	2383.3	1776.1	1231.5	866.1	659.1	556.0	520.2	502.9
15°	3896.2	3524.9	2693.4	1899.6	1202.8	703.9	473.5	403.1	386.7	386.7	384.6
17.5°	3769.6	3326.9	2355.5	1445.6	754.9	430.6	360.2	350.9	350.9	354.9	354.9
20°	3648.2	3138.2	2029.0	1037.5	475.4	341.6	325.6	323.4	325.6	330.5	330.5
22.5°	3544.1	2966.8	1724.2	712.0	353.0	308.0	299.9	296.8	297.8	300.8	303.0
25°	3466.6	2821.9	1436.6	482.5	303.9	280.5	271.5	266.3	262.2	262.2	264.1
27.5°	3417.7	2699.6	1158.0	350.9	273.4	255.1	240.6	232.6	223.3	218.4	220.2
30°	3381.9	2583.2	896.7	286.6	244.9	226.4	208.2	194.9	181.6	175.4	177.6
32.5°	3368.6	2489.3	670.3	253.0	219.3	198.9	176.4	159.1	144.9	139.6	140.8
35°	3404.5	2414.8	490.8	228.6	198.9	173.3	148.0	128.5	117.4	114.3	115.2
37.5°	3498.4	2375.0	367.3	208.2	180.7	152.0	123.6	105.0	97.9	97.9	98.8
40°	3675.7	2374.0	295.0	194.0	164.3	131.6	101.9	88.6	84.6	86.8	87.7
42.5°	3934.8	2428.1	257.0	180.7	150.1	112.1	84.6	75.4	74.4	76.6	77.5
45°	4288.8	2526.9	236.6	169.3	134.7	93.9	71.4	65.2	65.2	68.3	69.5
47.5°	4722.5	2671.8	219.3	158.1	119.2	78.5	61.2	57.1	58.1	61.2	62.1
50°	5244.8	2854.7	202.0	145.8	108.1	65.2	53.1	50.0	51.0	55.0	56.2
52.5°	5839.7	3100.5	187.8	134.7	93.9	54.1	44.8	42.9	44.8	49.1	50.0
55°	6349.6	3320.8	170.5	125.4	75.4	44.8	36.8	36.8	38.9	43.9	44.8
57.5°	6840.4	3551.2	155.1	108.1	59.3	35.8	30.6	31.5	34.6	39.8	40.8
60°	7560.7	3941.9	136.8	90.8	44.8	28.4	25.6	26.6	30.6	35.8	36.8
62.5°	8783.9	4536.8	118.3	75.4	34.6	22.5	20.4	22.5	27.5	33.7	34.6
65°	9887.8	4778.7	97.0	63.3	26.6	17.3	17.3	20.4	26.6	32.7	33.7
67.5°	9272.6	4022.5	75.4	50.0	20.4	13.3	14.2	19.5	25.6	32.7	33.7
69°	8200.4	3289.3	64.2	39.8	17.3	12.4	13.3	19.5	25.6	31.5	32.7
70°	7364.9	2777.1	57.1	33.7	15.4	12.4	13.3	18.2	25.6	31.5	32.7
72.5°	4932.8	1499.6	46.0	24.4	14.2	11.1	11.1	18.2	24.4	30.6	31.5
75°	2119.8	414.2	36.8	17.3	12.4	10.2	10.2	17.3	23.5	29.7	31.5
77.5°	387.6	105.0	29.7	15.4	12.4	10.2	9.3	16.4	22.5	28.4	29.7
80°	154.1	51.9	23.5	13.3	11.1	9.3	8.0	15.4	21.3	27.5	28.4
82.5°	93.0	29.7	19.5	12.4	11.1	8.0	7.1	13.3	20.4	26.6	27.5
85°	75.4	20.4	15.4	12.4	10.2	8.0	6.2	12.4	18.2	25.6	26.6
87.5°	36.8	14.2	14.2	11.1	10.2	8.0	6.2	11.1	17.3	24.4	25.6
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)