

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: P299600

Luminaire Tested: **GAA-AF-05-LED-U-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI
3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II w/Spill
Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21651.3 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

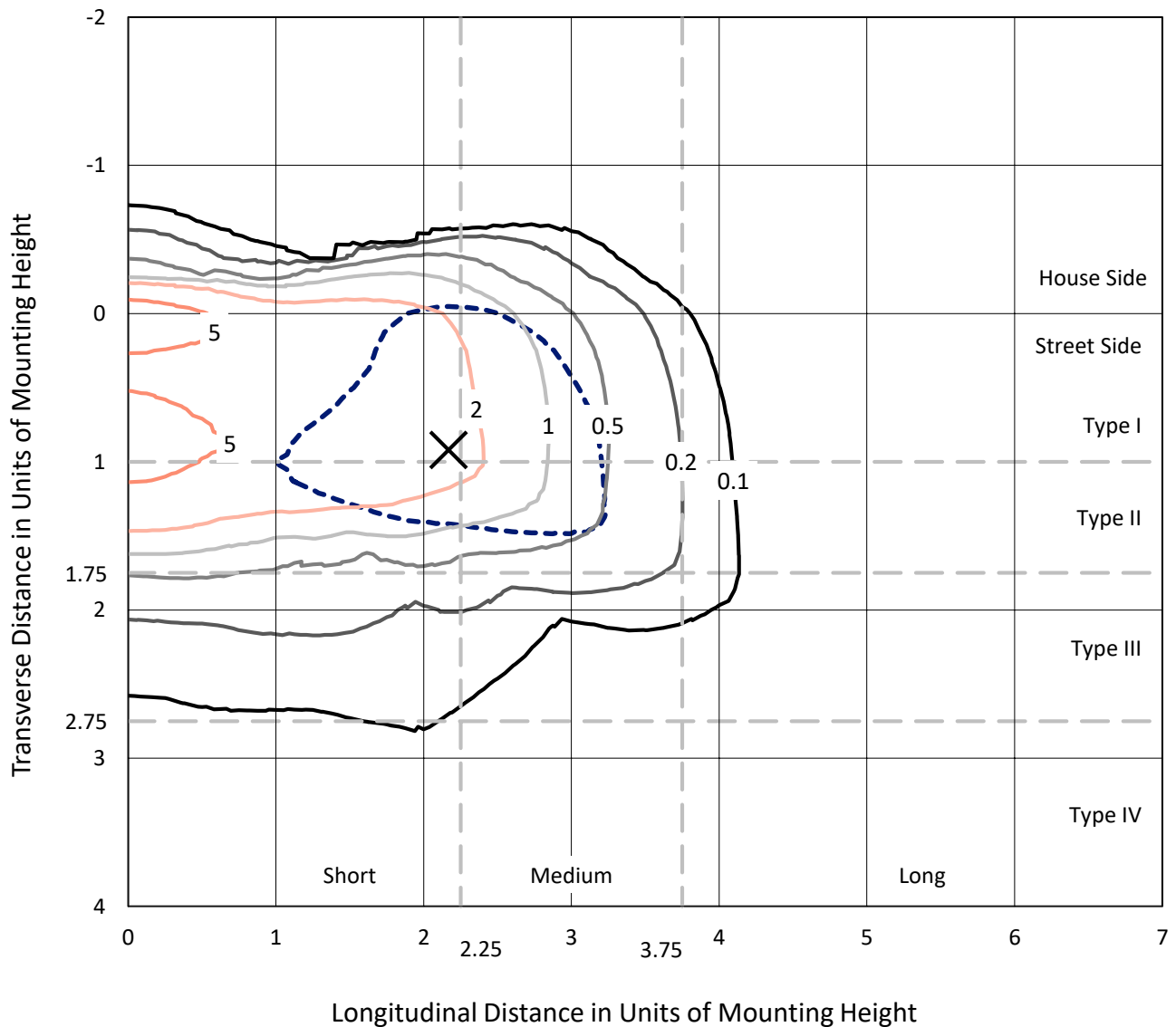
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

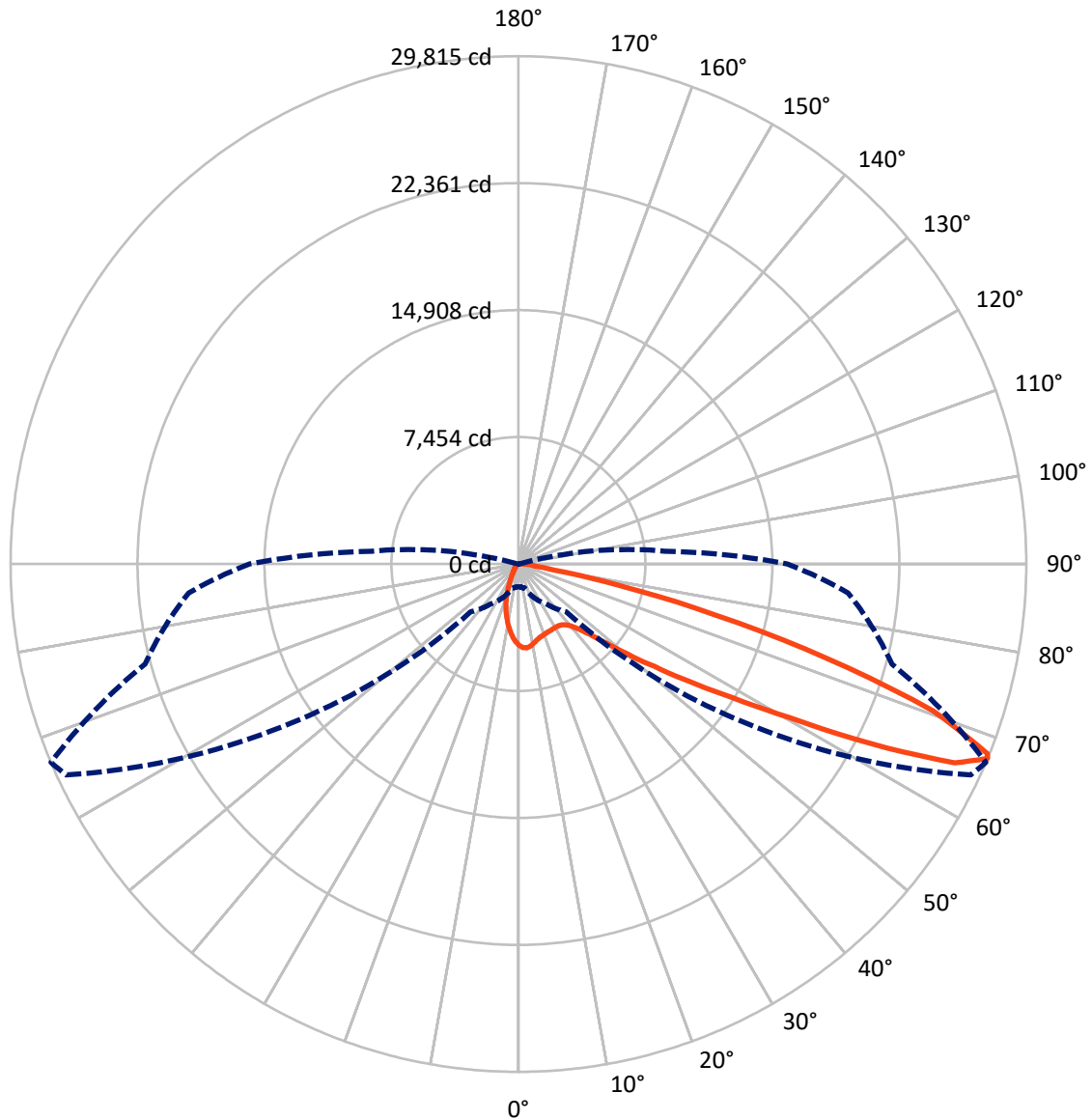
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.1	0.0	2248.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19403.3	0.0	19403.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	21651.3	0.0	21651.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.5	1.8
10°-20°	826.9	3.8
20°-30°	1202.3	5.6
30°-40°	1875.6	8.7
40°-50°	3322.6	15.3
50°-60°	5257.6	24.3
60°-70°	6021.9	27.8
70°-80°	2497.8	11.5
80°-90°	258.0	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°	21651.3	100.0
0°-180°	21651.3	100.0

Coefficient of Utilization



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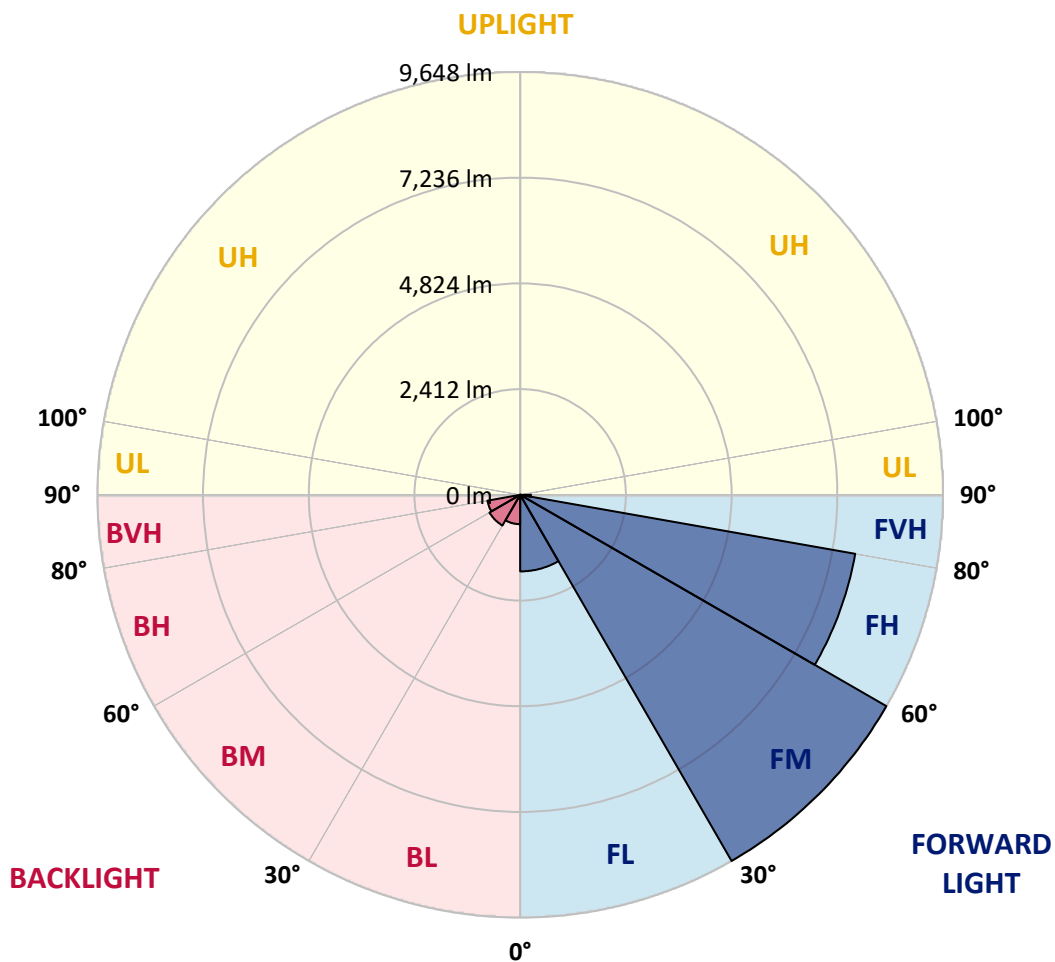
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1746.9	8.1			
FM	(30°-60°)	9647.9	44.6			
FH	(60°-80°)	7762.1	35.9			G4/12000
FVH	(80°-90°)	246.4	1.1			G3/500
BL	(0°-30°)	670.8	3.1	B2/1000		
BM	(30°-60°)	807.9	3.7	B1/1000		
BH	(60°-80°)	757.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	11.6	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9
2.5°	4936.6	4946.7	4945.4	4953.0	4970.7	4971.9	4954.2	4920.1	4912.6	4868.4	4791.3
5°	4552.7	4581.7	4599.4	4671.4	4752.2	4849.4	4922.7	4949.2	4945.4	4913.8	4797.7
7.5°	4114.4	4143.5	4163.7	4248.3	4355.6	4522.3	4713.0	4869.6	4883.5	4917.6	4792.6
10°	3822.7	3827.8	3855.5	3936.4	4048.8	4219.3	4446.6	4720.6	4762.3	4887.3	4780.0
12.5°	3582.8	3586.6	3623.2	3710.3	3830.3	4002.0	4240.7	4557.7	4622.1	4849.4	4777.4
15°	3412.3	3426.2	3459.0	3549.9	3677.5	3848.0	4093.0	4437.7	4514.8	4835.5	4800.2
17.5°	3355.5	3370.6	3380.7	3446.4	3562.6	3729.3	3980.6	4359.4	4446.6	4843.1	4844.4
20°	3414.8	3426.2	3403.4	3419.9	3491.8	3640.9	3885.9	4292.5	4396.1	4852.0	4901.2
22.5°	3635.8	3640.9	3579.0	3507.0	3494.4	3576.5	3811.3	4239.5	4350.6	4875.9	4968.1
25°	4014.7	4005.8	3904.8	3749.5	3603.0	3565.1	3767.1	4206.6	4327.9	4901.2	5037.6
27.5°	4471.8	4484.5	4345.5	4119.5	3840.4	3640.9	3760.8	4192.7	4317.8	4918.9	5098.2
30°	5027.5	5045.2	4886.1	4601.9	4201.6	3827.8	3818.9	4190.2	4311.4	4907.5	5103.3
32.5°	5594.5	5616.0	5491.0	5198.0	4684.0	4141.0	3950.3	4218.0	4324.1	4868.4	5074.2
35°	6188.1	6218.4	6135.0	5883.7	5338.2	4593.1	4181.4	4302.6	4383.4	4864.6	5045.2
37.5°	7007.7	7035.5	6878.9	6612.4	6130.0	5199.2	4552.7	4461.7	4523.6	4925.2	5052.8
40°	8231.4	8227.6	7823.5	7415.6	7000.1	5969.6	5074.2	4749.7	4781.2	5108.3	5146.2
42.5°	9565.0	9558.7	8961.3	8341.3	7966.2	6918.0	5760.0	5247.2	5225.8	5445.5	5388.7
45°	10593.0	10591.7	10104.2	9405.9	9129.3	8006.6	6646.5	5939.3	5906.5	5993.6	5835.7
47.5°	11031.2	11038.8	10793.8	10302.5	10418.7	9479.1	7764.1	6942.0	6892.8	6857.4	6617.4
50°	10690.2	10705.4	10725.6	10629.6	11364.6	11458.0	9263.2	8355.2	8331.2	8173.3	7798.2
52.5°	9576.4	9653.4	9890.8	10195.2	11692.9	13357.4	11613.4	10110.6	9981.7	9813.8	9400.8
55°	7699.7	7784.3	8235.2	8974.0	11204.2	14605.1	14906.9	12373.6	12158.9	11657.6	11061.5
57.5°	5095.7	5227.0	5881.2	6820.8	9784.7	14805.9	18192.9	15514.4	14766.8	13394.0	12722.2
60°	2807.4	2933.7	3643.4	4494.6	7067.0	13813.3	20403.0	19603.6	18282.6	15335.1	14739.0
62.5°	1728.9	1797.1	2321.2	3113.0	4238.2	10902.4	20860.1	24742.2	23212.8	17834.3	17175.1
65°	1376.5	1405.6	1661.9	2544.7	3038.5	6484.8	19383.8	28659.6	28149.4	20860.1	19356.0
67°	1336.1	1347.5	1468.7	2184.8	2864.2	3975.5	16239.3	29297.4	29815.1	22691.3	19424.2
67.5°	1345.0	1357.6	1472.5	2085.0	2859.1	3653.5	15155.7	29046.1	29700.2	22836.5	19122.4
70°	1297.0	1336.1	1685.9	2083.7	2719.0	3035.9	9076.3	25166.5	25847.2	21218.8	16225.4
72.5°	459.7	462.2	728.7	1685.9	2956.4	3068.8	4557.7	18449.3	18953.2	16231.7	11698.0
75°	272.8	232.4	242.5	479.9	2825.0	2980.4	2629.3	11788.9	11977.1	9301.1	5924.1
77.5°	188.2	164.2	169.2	212.2	1076.0	2938.7	2088.8	6147.7	5946.9	3262.0	1261.6
80°	107.3	94.7	101.0	185.6	391.5	2741.7	1970.1	2492.9	2125.4	553.1	348.6
82.5°	56.8	48.0	58.1	152.8	272.8	1708.7	1973.9	1204.8	954.7	186.9	237.4
85°	20.2	16.4	27.8	104.8	181.9	524.1	1829.9	1012.8	795.6	90.9	180.6
87.5°	3.8	3.8	11.4	42.9	73.2	160.4	1082.3	601.1	402.9	54.3	123.8
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°	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9	4774.9
2.5°	4759.8	4705.5	4632.2	4542.6	4436.5	4343.0	4273.6	4201.6	4186.4	4161.2	4157.4
5°	4728.2	4634.7	4452.9	4244.5	4022.2	3821.5	3658.5	3513.3	3448.9	3393.3	3387.0
7.5°	4681.5	4541.3	4231.9	3896.0	3548.7	3233.0	2965.2	2775.8	2601.5	2518.2	2505.5
10°	4627.2	4426.4	3983.1	3517.1	3037.2	2591.4	2193.6	1860.2	1658.2	1538.2	1523.0
12.5°	4576.6	4314.0	3729.3	3124.3	2486.6	1890.5	1379.1	1060.8	848.6	762.8	752.7
15°	4552.7	4223.0	3491.8	2722.8	1910.7	1203.5	753.9	583.4	514.0	493.8	492.5
17.5°	4550.1	4146.0	3259.5	2307.3	1338.6	699.6	491.3	448.3	434.4	429.4	429.4
20°	4548.9	4072.8	3027.1	1876.6	849.9	466.0	409.2	399.1	389.0	382.7	382.7
22.5°	4562.8	4007.1	2784.6	1437.1	535.5	377.6	359.9	349.8	337.2	328.3	327.1
25°	4576.6	3956.6	2537.1	1022.9	387.7	328.3	310.7	296.8	279.1	267.7	266.5
27.5°	4579.2	3893.4	2271.9	684.5	324.6	286.7	263.9	242.5	222.3	210.9	209.6
30°	4541.3	3787.4	1977.7	462.2	286.7	248.8	218.5	195.7	176.8	168.0	168.0
32.5°	4466.8	3656.0	1654.4	348.6	255.1	213.4	180.6	159.1	146.5	142.7	141.4
35°	4399.8	3514.6	1322.2	295.5	228.6	180.6	147.8	133.9	126.3	125.0	123.8
37.5°	4360.7	3400.9	1010.3	267.7	203.3	151.5	125.0	114.9	111.1	108.6	109.9
40°	4391.0	3306.2	746.4	245.0	178.1	126.3	106.1	101.0	97.2	96.0	96.0
42.5°	4523.6	3289.8	554.4	224.8	154.1	104.8	92.2	88.4	85.9	84.6	85.9
45°	4872.2	3390.8	430.6	205.8	130.1	88.4	78.3	77.0	75.8	75.8	75.8
47.5°	5396.3	3599.2	358.7	184.4	108.6	75.8	68.2	66.9	65.7	66.9	66.9
50°	6284.1	3980.6	320.8	162.9	89.7	64.4	58.1	58.1	58.1	58.1	59.4
52.5°	7634.1	4730.7	295.5	141.4	73.2	54.3	49.3	49.3	50.5	50.5	51.8
55°	9138.1	5725.9	272.8	120.0	61.9	45.5	40.4	41.7	42.9	44.2	44.2
57.5°	10769.8	6828.3	253.8	98.5	53.0	36.6	34.1	35.4	36.6	39.1	39.1
60°	12738.6	8021.8	226.1	77.0	44.2	29.0	26.5	29.0	32.8	35.4	36.6
62.5°	14900.6	9176.0	190.7	60.6	36.6	22.7	21.5	26.5	31.6	34.1	35.4
65°	16378.2	9538.5	146.5	49.3	27.8	16.4	17.7	24.0	30.3	34.1	34.1
67°	15779.6	8648.1	120.0	41.7	22.7	12.6	16.4	24.0	30.3	32.8	34.1
67.5°	15364.1	8299.6	114.9	40.4	21.5	12.6	16.4	24.0	30.3	34.1	34.1
70°	12501.2	6234.8	96.0	30.3	17.7	11.4	13.9	22.7	29.0	32.8	32.8
72.5°	8686.0	3844.2	85.9	21.5	15.2	10.1	12.6	21.5	27.8	31.6	32.8
75°	4129.6	1391.7	73.2	16.4	13.9	8.8	11.4	21.5	27.8	31.6	31.6
77.5°	842.3	323.3	59.4	13.9	11.4	8.8	10.1	20.2	26.5	30.3	30.3
80°	276.6	125.0	44.2	12.6	11.4	8.8	10.1	18.9	26.5	29.0	30.3
82.5°	199.5	63.1	29.0	12.6	11.4	8.8	8.8	18.9	25.3	29.0	29.0
85°	152.8	44.2	18.9	12.6	11.4	8.8	8.8	17.7	24.0	27.8	27.8
87.5°	101.0	17.7	15.2	12.6	11.4	8.8	8.8	17.7	22.7	26.5	27.8
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)