

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-06-LED-U-SL3-8030-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-06-LED-U-SL3-8030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 80 CRI
3000K CCT 1050mA 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: 22546.5 lumens
Efficiency: N/A
Efficacy: 67.7 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 - G4

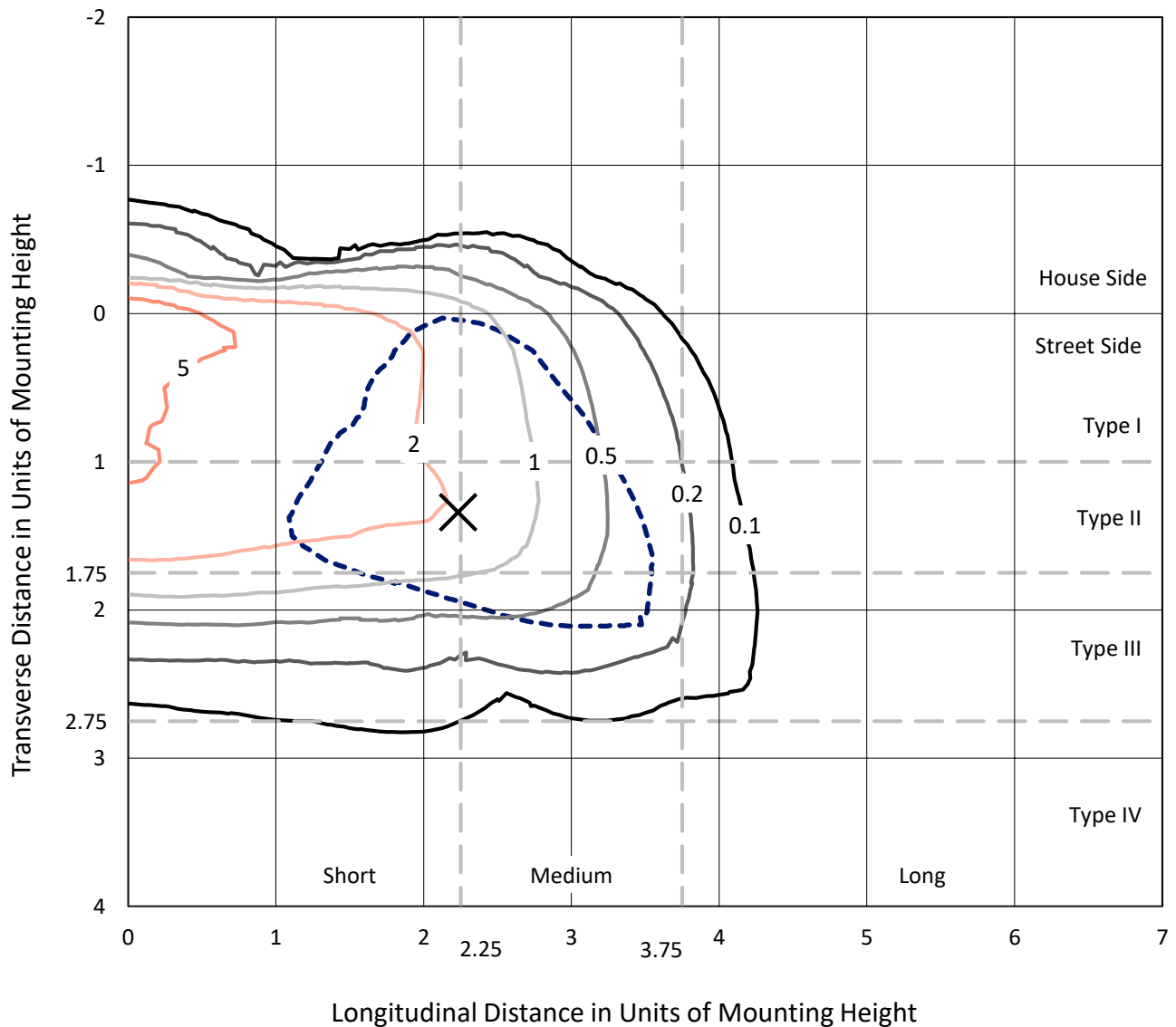
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

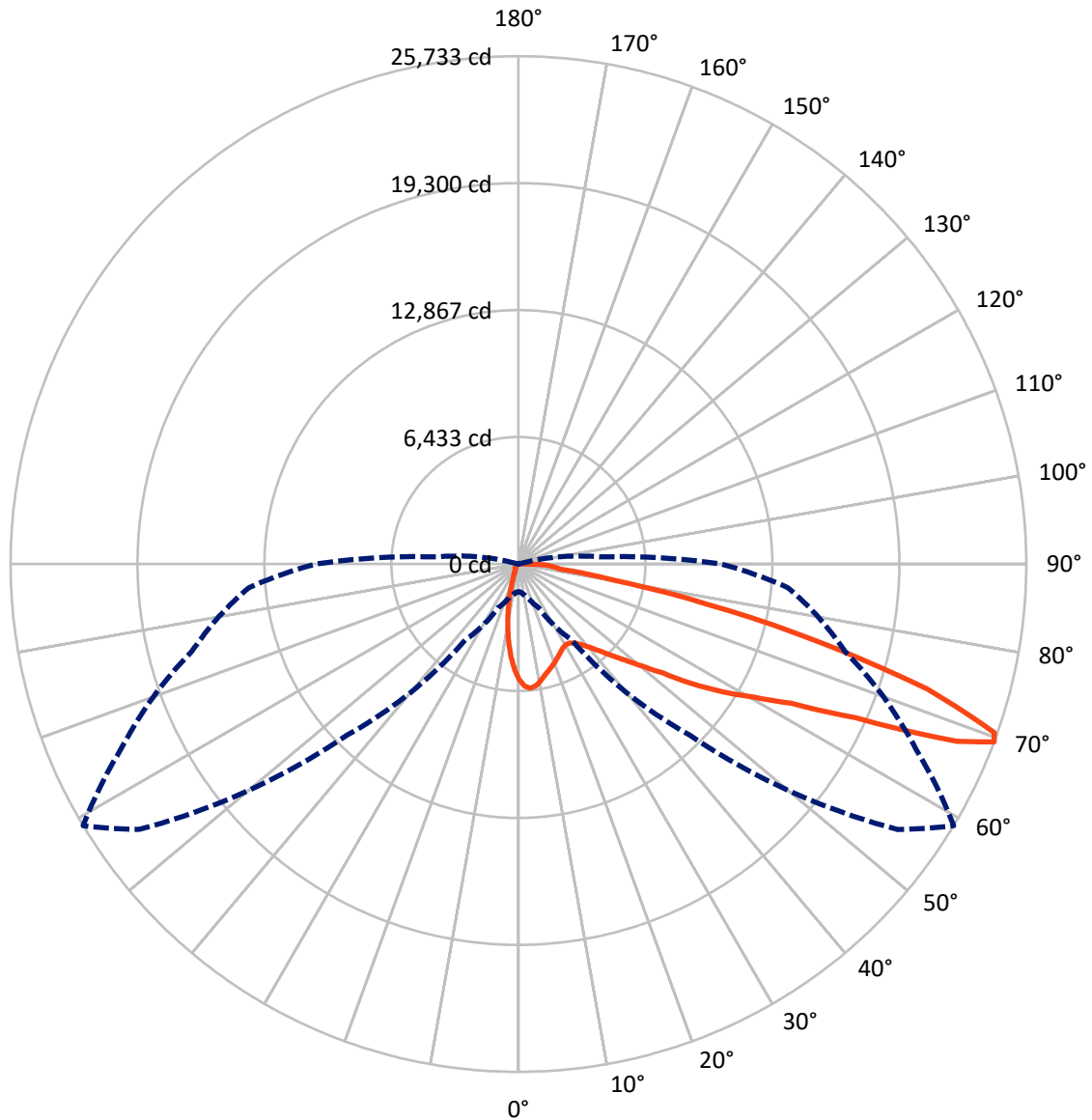
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	1836.1	0.0	1836.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	20710.5	0.0	20710.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	22546.5	0.0	22546.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.4	2.1
10°-20°	984.3	4.4
20°-30°	1324.5	5.9
30°-40°	1923.0	8.5
40°-50°	3202.0	14.2
50°-60°	4995.1	22.2
60°-70°	6181.1	27.4
70°-80°	3132.5	13.9
80°-90°	327.8	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°	22546.5	100.0
0°-180°	22546.5	100.0

Coefficient of Utilization



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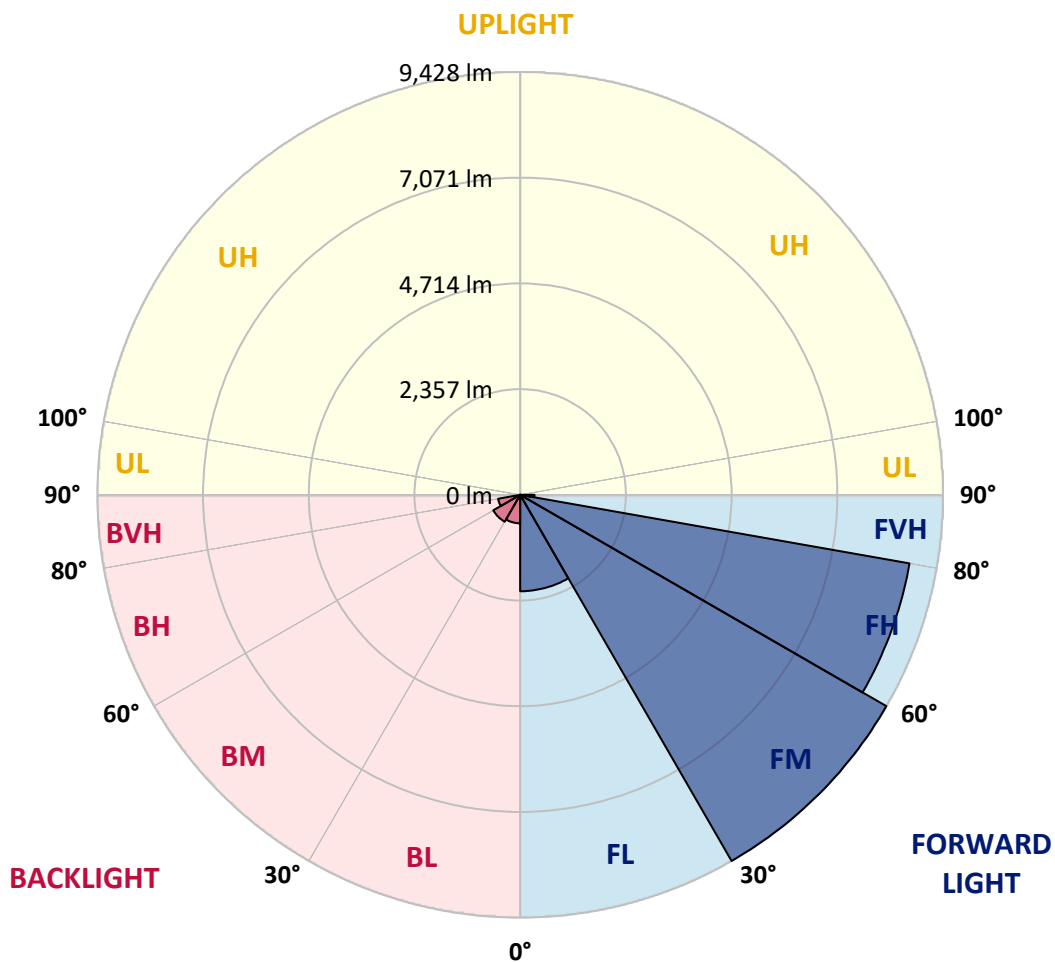
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2149.6	9.5			
FM	(30°-60°)	9428.3	41.8			
FH	(60°-80°)	8814.9	39.1			G4/12000
FVH	(80°-90°)	317.7	1.4			G3/500
BL	(0°-30°)	635.5	2.8	B2/1000		
BM	(30°-60°)	691.8	3.1	B1/1000		
BH	(60°-80°)	498.6	2.2	B1/500		G1/500
BVH	(80°-90°)	10.1	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4
2.5°	6432.0	6429.7	6401.5	6388.8	6365.6	6317.4	6242.1	6202.7	6139.0	6027.9	5878.9
5°	6373.3	6404.2	6420.4	6422.0	6438.6	6420.4	6352.9	6320.1	6232.0	6053.3	5785.8
7.5°	5975.7	5986.9	6034.4	6074.9	6154.1	6229.3	6253.7	6239.4	6187.3	5996.2	5640.3
10°	5550.0	5561.2	5617.5	5670.8	5778.1	5893.9	6016.3	6042.1	6063.8	5914.4	5500.2
12.5°	5182.5	5194.1	5251.6	5321.5	5446.5	5589.4	5779.3	5821.3	5917.1	5836.8	5387.9
15°	4866.4	4871.4	4927.7	5014.2	5163.6	5346.9	5562.7	5630.3	5776.9	5782.0	5289.8
17.5°	4597.3	4610.1	4644.8	4727.4	4890.7	5117.7	5368.9	5465.8	5637.6	5736.0	5194.1
20°	4432.9	4445.6	4444.5	4490.4	4637.1	4879.1	5175.2	5291.0	5500.2	5688.9	5108.8
22.5°	4401.2	4401.2	4368.0	4361.5	4448.3	4651.0	4973.7	5115.0	5376.3	5668.5	5048.9
25°	4514.7	4509.3	4426.7	4359.2	4363.0	4483.8	4778.4	4946.7	5272.1	5682.4	5016.9
27.5°	4754.4	4747.9	4643.3	4514.7	4411.3	4410.1	4630.5	4811.6	5189.1	5748.8	5029.6
30°	5085.6	5083.3	4969.8	4807.7	4620.5	4448.3	4579.6	4744.0	5135.4	5868.4	5059.0
32.5°	5447.7	5443.8	5358.5	5187.9	4950.5	4620.5	4633.2	4771.0	5150.8	6027.9	5130.4
35°	5831.8	5825.2	5788.1	5639.1	5377.8	4937.8	4809.2	4916.2	5247.7	6266.4	5270.5
37.5°	6247.1	6253.7	6280.3	6137.5	5863.4	5382.8	5103.8	5176.3	5442.7	6590.3	5498.6
40°	6860.5	6859.3	6868.2	6680.6	6416.9	5927.1	5515.2	5538.4	5769.2	7019.9	5845.7
42.5°	7973.3	7895.7	7659.9	7277.4	7012.2	6549.3	6034.4	6010.1	6168.4	7551.4	6331.3
45°	9469.1	9303.1	8691.3	7958.3	7619.0	7250.7	6672.9	6595.3	6696.0	8190.3	6930.7
47.5°	10755.3	10583.1	9717.7	8667.0	8262.8	7916.2	7421.3	7281.2	7314.4	8905.5	7690.4
50°	11192.6	11108.4	10352.7	9284.2	8886.2	8753.8	8289.8	8118.8	8071.7	9732.7	8571.2
52.5°	11040.9	11034.7	10531.0	9684.5	9457.5	9620.8	9382.2	9184.6	9011.3	10605.1	9467.5
55°	10797.3	10829.4	10603.6	10035.0	10027.3	10412.5	10876.5	10712.0	10209.8	11552.4	10240.3
57.5°	10125.7	10261.9	10563.0	10698.1	11011.6	11405.7	12120.9	12217.8	11623.8	12277.7	10881.5
60°	8215.7	8515.3	9499.6	10793.5	12280.4	13262.0	13622.9	13705.5	12783.7	12880.6	11747.3
62.5°	5831.8	6137.5	7385.8	9574.9	12299.3	15700.8	15860.2	15535.2	14061.4	13774.6	13240.4
65°	3095.4	3331.6	4351.4	6911.4	10663.8	16267.0	19773.1	18804.2	16315.3	15532.5	15169.2
67.5°	1583.4	1654.8	2060.5	3382.6	7331.0	14448.9	23280.3	23962.4	20200.0	17276.8	15076.2
69°	1401.2	1443.3	1712.3	2445.3	4694.2	12238.3	23451.3	25733.4	22233.9	17131.3	13700.5
70°	1356.4	1393.5	1638.2	2213.4	3669.4	10263.1	22797.1	25577.8	22753.8	16578.1	12672.9
72.5°	1151.5	1183.1	1458.7	1955.9	2982.3	5094.5	18518.6	21674.2	20418.1	13810.1	9173.0
75°	770.1	874.7	1400.0	1833.5	2774.2	2894.3	12208.9	15662.5	14549.7	9314.7	4778.4
77.5°	184.9	198.8	395.3	1458.7	2537.2	2547.2	6279.1	9736.6	7941.7	3320.0	1129.5
80°	99.6	95.7	110.8	289.5	2362.4	2390.5	2826.7	4726.2	2835.6	550.8	372.1
82.5°	70.3	66.4	71.4	121.2	743.4	2177.5	2045.1	2139.2	1175.4	211.5	167.1
85°	25.5	24.3	39.4	109.6	233.1	1251.8	2101.0	1764.4	952.3	96.9	122.4
87.5°	8.9	7.7	15.4	59.8	71.4	533.1	1296.6	1333.6	374.8	58.7	57.5
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°	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4
2.5°	5816.3	5737.2	5592.1	5442.7	5304.9	5139.3	5056.3	4974.8	4940.5	4927.7	4867.9
5°	5648.0	5514.1	5205.7	4895.7	4610.1	4306.7	4106.7	3946.1	3851.6	3805.6	3733.1
7.5°	5432.6	5213.4	4745.2	4267.3	3822.2	3383.7	3058.7	2808.6	2636.4	2553.8	2478.5
10°	5223.4	4931.6	4266.1	3614.6	3010.1	2428.7	1979.8	1654.8	1447.1	1351.4	1290.4
12.5°	5036.2	4657.5	3803.3	2978.4	2219.5	1539.0	1082.4	823.7	694.8	650.0	628.4
15°	4869.1	4405.1	3366.0	2373.9	1503.1	879.7	591.7	503.7	483.3	483.3	480.6
17.5°	4710.8	4157.7	2943.7	1806.5	943.4	538.1	450.1	438.5	438.5	443.5	443.5
20°	4559.1	3921.8	2535.7	1296.6	594.1	426.9	406.8	404.1	406.8	413.0	413.0
22.5°	4429.0	3707.6	2154.7	889.7	441.2	384.8	374.8	371.0	372.1	376.0	378.7
25°	4332.1	3526.5	1795.3	602.9	379.8	350.5	339.3	332.7	327.7	327.7	330.0
27.5°	4271.1	3373.7	1447.1	438.5	341.6	318.8	300.7	290.7	279.1	272.9	275.2
30°	4226.4	3228.2	1120.6	358.2	306.1	282.9	260.2	243.6	227.0	219.3	222.0
32.5°	4209.8	3110.8	837.6	316.1	274.1	248.6	220.4	198.8	181.0	174.5	176.0
35°	4254.5	3017.8	613.4	285.6	248.6	216.5	184.9	160.6	146.7	142.8	144.0
37.5°	4371.9	2968.0	459.0	260.2	225.8	189.9	154.4	131.2	122.4	122.4	123.5
40°	4593.5	2966.8	368.6	242.4	205.4	164.4	127.4	110.8	105.8	108.5	109.6
42.5°	4917.3	3034.4	321.2	225.8	187.6	140.1	105.8	94.2	93.0	95.7	96.9
45°	5359.7	3157.9	295.7	211.5	168.3	117.3	89.2	81.4	81.4	85.3	86.9
47.5°	5901.6	3338.9	274.1	197.6	149.0	98.0	76.4	71.4	72.6	76.4	77.6
50°	6554.4	3567.5	252.4	182.2	135.1	81.4	66.4	62.5	63.7	68.7	70.3
52.5°	7297.8	3874.7	234.7	168.3	117.3	67.6	56.0	53.7	56.0	61.4	62.5
55°	7935.1	4149.9	213.1	156.7	94.2	56.0	45.9	45.9	48.6	54.8	56.0
57.5°	8548.5	4437.9	193.8	135.1	74.1	44.8	38.2	39.4	43.2	49.8	51.0
60°	9448.6	4926.2	171.0	113.5	56.0	35.5	32.0	33.2	38.2	44.8	45.9
62.5°	10977.2	5669.6	147.8	94.2	43.2	28.2	25.5	28.2	34.4	42.1	43.2
65°	12356.8	5971.9	121.2	79.1	33.2	21.6	21.6	25.5	33.2	40.9	42.1
67.5°	11587.9	5026.9	94.2	62.5	25.5	16.6	17.8	24.3	32.0	40.9	42.1
69°	10248.0	4110.6	80.3	49.8	21.6	15.4	16.6	24.3	32.0	39.4	40.9
70°	9203.9	3470.6	71.4	42.1	19.3	15.4	16.6	22.8	32.0	39.4	40.9
72.5°	6164.5	1874.1	57.5	30.5	17.8	13.9	13.9	22.8	30.5	38.2	39.4
75°	2649.2	517.6	45.9	21.6	15.4	12.7	12.7	21.6	29.3	37.1	39.4
77.5°	484.4	131.2	37.1	19.3	15.4	12.7	11.6	20.5	28.2	35.5	37.1
80°	192.6	64.8	29.3	16.6	13.9	11.6	10.0	19.3	26.6	34.4	35.5
82.5°	116.2	37.1	24.3	15.4	13.9	10.0	8.9	16.6	25.5	33.2	34.4
85°	94.2	25.5	19.3	15.4	12.7	10.0	7.7	15.4	22.8	32.0	33.2
87.5°	45.9	17.8	17.8	13.9	12.7	10.0	7.7	13.9	21.6	30.5	32.0
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)