

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: P193756

Luminaire Tested: **GAN-AF-08-LED-U-SL4-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL4-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31594 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

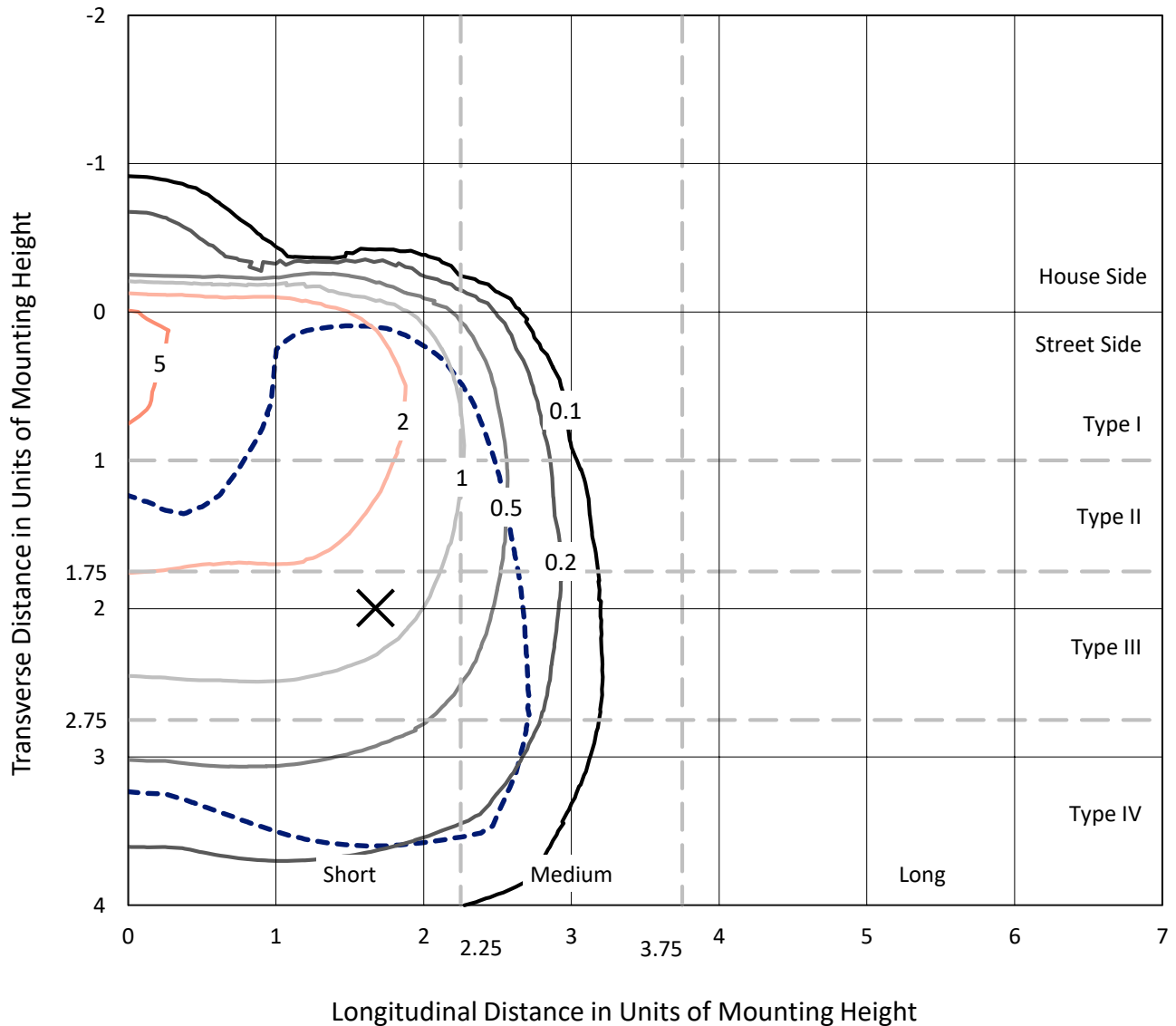
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

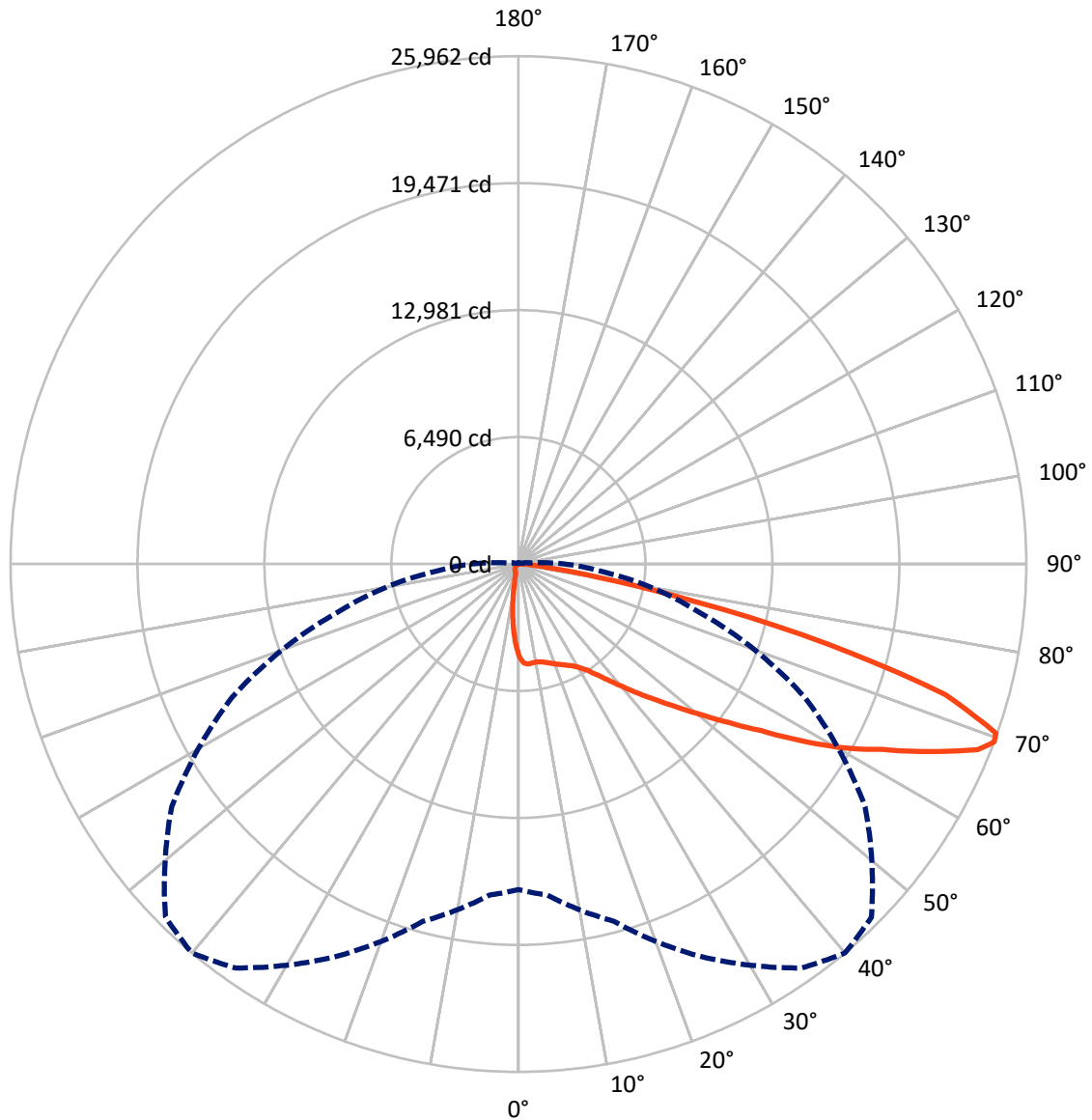
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.4	0.0	1848.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	29745.6	0.0	29745.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	31594.0	0.0	31594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	1.2
10°-20°	941.2	3.0
20°-30°	1585.3	5.0
30°-40°	2595.2	8.2
40°-50°	4493.4	14.2
50°-60°	7077.6	22.4
60°-70°	9243.1	29.3
70°-80°	4760.6	15.1
80°-90°	515.0	1.6
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°	31594.0	100.0
0°-180°	31594.0	100.0

Coefficient of Utilization



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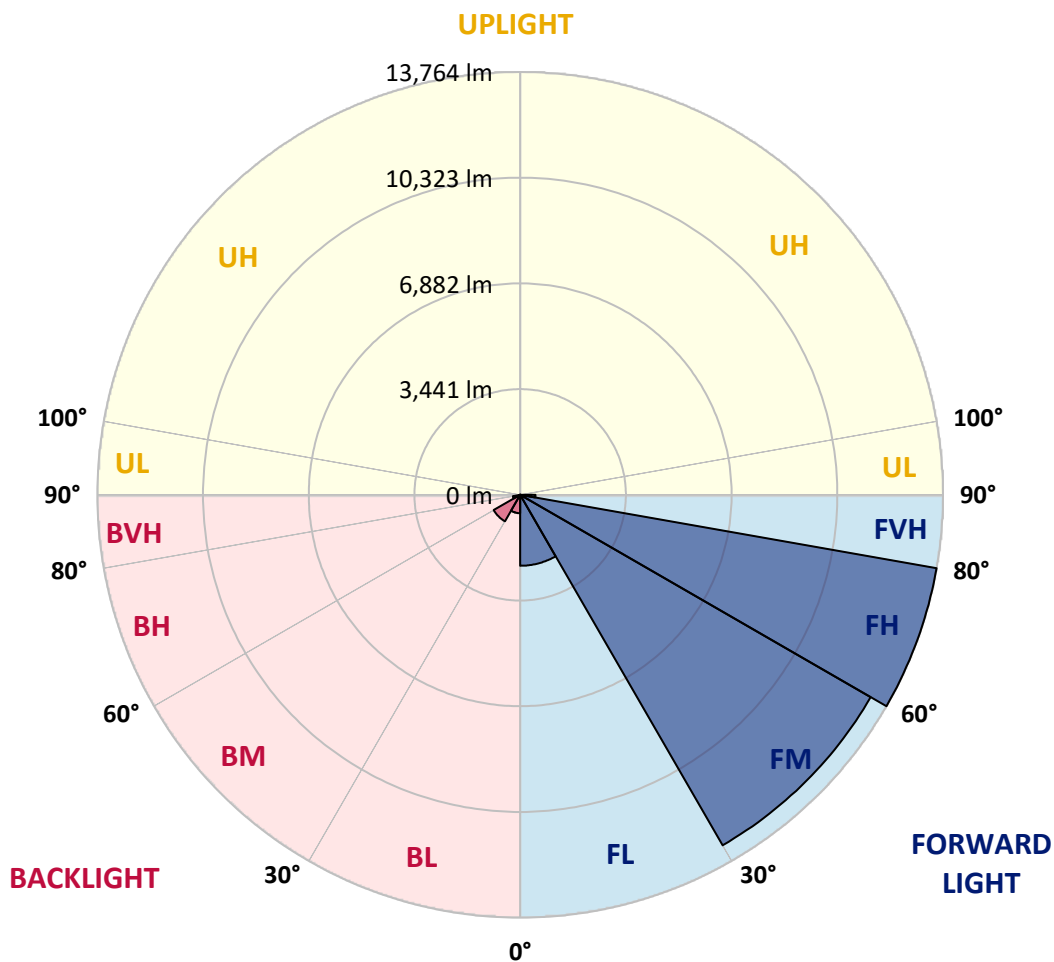
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2310.4	7.3			
FM	(30°-60°)	13172.7	41.7			
FH	(60°-80°)	13763.6	43.6			G5
FVH	(80°-90°)	498.8	1.6			G3/500
BL	(0°-30°)	598.8	1.9	B2/1000		
BM	(30°-60°)	993.5	3.1	B1/1000		
BH	(60°-80°)	240.0	0.8	B1/500		G1/500
BVH	(80°-90°)	16.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3
2.5°	5182.9	5154.7	5137.8	5115.2	5087.0	5062.6	5053.2	4983.6	4917.8	4827.5	4724.1
5°	5278.8	5269.4	5239.4	5209.3	5175.4	5137.8	5117.1	5034.4	4940.3	4808.7	4628.2
7.5°	5288.2	5277.0	5239.4	5198.0	5151.0	5105.8	5070.1	4987.4	4900.8	4767.3	4547.3
10°	5273.2	5260.0	5231.8	5186.7	5128.4	5085.1	5049.4	4970.4	4897.1	4776.7	4532.2
12.5°	5256.3	5243.1	5229.9	5207.4	5156.6	5126.5	5096.4	5021.2	4955.4	4853.8	4586.8
15°	5273.2	5265.7	5280.7	5271.3	5243.1	5216.8	5186.7	5119.0	5058.8	4974.2	4686.5
17.5°	5344.7	5344.7	5391.7	5397.3	5371.0	5333.4	5290.1	5222.4	5171.7	5100.2	4804.9
20°	5512.0	5506.4	5566.6	5577.9	5513.9	5455.6	5391.7	5308.9	5269.4	5224.3	4921.5
22.5°	5799.8	5773.4	5809.2	5797.9	5671.9	5581.6	5502.6	5401.1	5380.4	5359.7	5051.3
25°	6174.0	6159.0	6183.4	6072.5	5850.5	5728.3	5634.3	5519.6	5519.6	5540.2	5198.0
27.5°	6717.5	6661.1	6578.3	6382.8	6049.9	5893.8	5792.2	5670.0	5702.0	5779.1	5391.7
30°	7274.2	7212.1	7022.2	6721.3	6292.5	6128.9	6010.4	5882.5	5957.7	6098.8	5651.2
32.5°	7823.3	7753.7	7484.8	7104.9	6640.4	6476.8	6362.1	6221.0	6347.0	6584.0	6031.1
35°	8355.5	8293.4	7983.1	7535.6	7103.0	6967.6	6862.3	6740.1	6901.8	7232.8	6567.1
37.5°	8953.5	8885.8	8507.8	8022.6	7665.3	7567.5	7490.4	7368.2	7650.3	8135.5	7313.7
40°	9688.9	9574.1	9064.5	8581.2	8316.0	8269.0	8216.3	8199.4	8637.6	9309.0	8308.5
42.5°	10531.4	10343.3	9647.5	9169.8	9030.6	9064.5	9051.3	9126.6	9873.2	10768.3	9519.6
45°	11373.9	11131.3	10296.3	9797.9	9816.7	9935.2	10008.6	10309.4	11420.9	12442.0	10822.9
47.5°	12088.5	11849.7	10918.8	10476.8	10702.5	10935.7	11135.0	11704.9	13011.9	14089.5	11836.5
50°	12699.7	12474.0	11578.9	11223.4	11731.2	12107.3	12430.8	13275.2	14723.2	15343.8	12547.4
52.5°	13199.9	13049.5	12263.4	12079.1	12906.6	13457.6	13931.5	14943.2	16239.0	16363.1	13100.3
55°	13687.0	13579.8	12998.7	13096.5	14286.9	15037.3	15637.2	16712.9	17544.1	17213.1	13630.6
57.5°	14247.4	14149.6	13837.5	14386.6	16101.7	17045.8	17700.2	18281.3	18693.2	18082.0	14130.8
60°	14819.1	14762.7	14770.2	15819.6	18185.4	19091.9	19452.9	19603.4	19821.5	18900.0	14159.0
62.5°	15364.5	15471.7	15836.5	17414.4	20180.7	20876.5	21059.0	21207.5	20951.8	19029.8	13081.5
65°	16287.9	16462.8	17333.5	19548.8	22375.4	23120.1	23308.2	22798.5	21130.4	17352.3	10640.4
67.5°	16739.2	17058.9	18612.3	21538.5	24504.2	25331.7	25262.1	22901.9	18962.1	13231.9	6828.5
69°	16645.2	16985.6	18907.6	22147.8	25211.3	25961.7	25519.7	21636.3	16154.4	9585.4	4191.9
70°	16272.8	16617.0	18755.2	22125.3	25301.6	25895.9	25042.1	20073.5	13658.8	7009.0	2621.6
72.5°	13589.2	13886.4	16650.8	19998.3	23308.2	22824.8	20949.9	13907.0	6655.4	1908.8	590.5
75°	8364.9	8530.4	11947.5	15065.5	17604.3	16363.1	13957.8	6918.7	1984.0	539.7	327.2
77.5°	4419.4	4494.6	6540.7	8880.2	11159.5	9233.7	7153.8	2698.7	914.0	338.5	237.0
80°	2612.2	2668.6	3522.4	4060.2	4829.4	4033.9	2860.4	1656.8	654.4	212.5	210.6
82.5°	1495.1	1530.8	2553.9	2256.7	1903.2	1624.8	1423.6	1570.3	393.0	142.9	218.1
85°	549.1	556.7	1436.8	1717.0	1132.1	673.3	707.1	1301.4	105.3	90.3	171.1
87.5°	255.8	250.1	739.1	1051.3	662.0	426.9	551.0	285.9	41.4	58.3	47.0
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°	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3
2.5°	4663.9	4594.3	4468.3	4338.5	4206.9	4105.3	4005.7	3926.7	3900.4	3851.5	3855.2
5°	4521.0	4393.1	4129.8	3862.8	3584.4	3355.0	3138.7	2963.8	2879.2	2792.7	2792.7
7.5°	4396.8	4210.7	3798.8	3364.4	2914.9	2536.9	2196.5	1940.8	1799.7	1686.9	1685.0
10°	4349.8	4097.8	3522.4	2899.9	2273.6	1758.4	1354.0	1094.5	961.0	874.5	870.7
12.5°	4370.5	4058.3	3309.9	2471.1	1685.0	1130.2	784.2	616.8	560.4	534.1	534.1
15°	4430.7	4047.1	3097.3	2051.7	1190.4	707.1	520.9	475.8	472.0	472.0	472.0
17.5°	4504.0	4050.8	2879.2	1643.6	810.5	505.9	449.5	443.8	447.6	447.6	447.6
20°	4579.3	4052.7	2644.1	1265.6	571.7	440.1	423.1	421.3	425.0	425.0	426.9
22.5°	4671.4	4062.1	2409.0	945.9	472.0	415.6	402.4	402.4	404.3	404.3	402.4
25°	4776.7	4080.9	2164.6	701.5	430.7	398.7	387.4	385.5	387.4	385.5	383.6
27.5°	4908.4	4107.2	1891.9	549.1	411.9	381.8	372.4	372.4	370.5	368.6	366.7
30°	5073.9	4137.3	1585.3	466.4	393.0	366.7	357.3	355.4	353.6	349.8	349.8
32.5°	5325.9	4203.1	1282.6	423.1	372.4	346.0	338.5	338.5	334.7	331.0	329.1
35°	5713.3	4332.9	1011.8	396.8	349.8	323.5	314.1	314.1	310.3	308.4	306.5
37.5°	6249.2	4530.4	786.1	372.4	327.2	299.0	289.6	287.7	284.0	280.2	278.3
40°	6962.0	4774.8	618.7	349.8	304.7	274.6	267.0	263.3	255.8	250.1	250.1
42.5°	7857.1	5053.2	502.1	325.3	278.3	252.0	246.4	240.7	227.6	221.9	220.0
45°	8793.7	5303.3	425.0	297.1	252.0	229.4	225.7	216.3	199.3	193.7	193.7
47.5°	9468.8	5361.6	374.2	270.8	227.6	205.0	203.1	186.2	171.1	167.4	165.5
50°	9890.1	5246.9	332.9	244.5	205.0	182.4	176.8	156.1	146.7	142.9	141.0
52.5°	10174.0	5041.9	299.0	221.9	184.3	161.7	148.6	133.5	126.0	122.2	122.2
55°	10401.6	4752.3	265.2	201.2	167.4	144.8	126.0	114.7	107.2	103.4	103.4
57.5°	10465.5	4359.2	231.3	184.3	150.4	127.9	107.2	99.7	90.3	88.4	88.4
60°	10001.0	3650.2	205.0	163.6	135.4	111.0	94.0	84.6	75.2	73.3	71.5
62.5°	8776.8	2824.7	180.5	144.8	118.5	95.9	80.9	69.6	62.1	62.1	62.1
65°	6694.9	1893.8	158.0	126.0	103.4	80.9	69.6	56.4	52.7	52.7	54.5
67.5°	4007.6	1030.6	135.4	107.2	88.4	67.7	58.3	48.9	47.0	48.9	48.9
69°	2348.9	605.6	122.2	95.9	77.1	60.2	50.8	43.3	47.0	48.9	48.9
70°	1449.9	408.1	112.8	86.5	69.6	54.5	47.0	41.4	45.1	47.0	47.0
72.5°	404.3	210.6	90.3	67.7	56.4	45.1	37.6	37.6	43.3	45.1	45.1
75°	263.3	156.1	69.6	50.8	43.3	35.7	32.0	35.7	41.4	43.3	43.3
77.5°	218.1	127.9	56.4	41.4	35.7	33.9	30.1	32.0	37.6	39.5	39.5
80°	199.3	90.3	45.1	37.6	32.0	30.1	28.2	26.3	33.9	35.7	35.7
82.5°	189.9	71.5	39.5	33.9	30.1	26.3	24.4	26.3	30.1	32.0	33.9
85°	118.5	47.0	35.7	32.0	26.3	24.4	24.4	24.4	28.2	30.1	30.1
87.5°	43.3	37.6	32.0	26.3	22.6	22.6	22.6	22.6	24.4	28.2	28.2
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)