

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: P322332

Luminaire Tested: **GAN-SA8C-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41308 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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: 24 FT



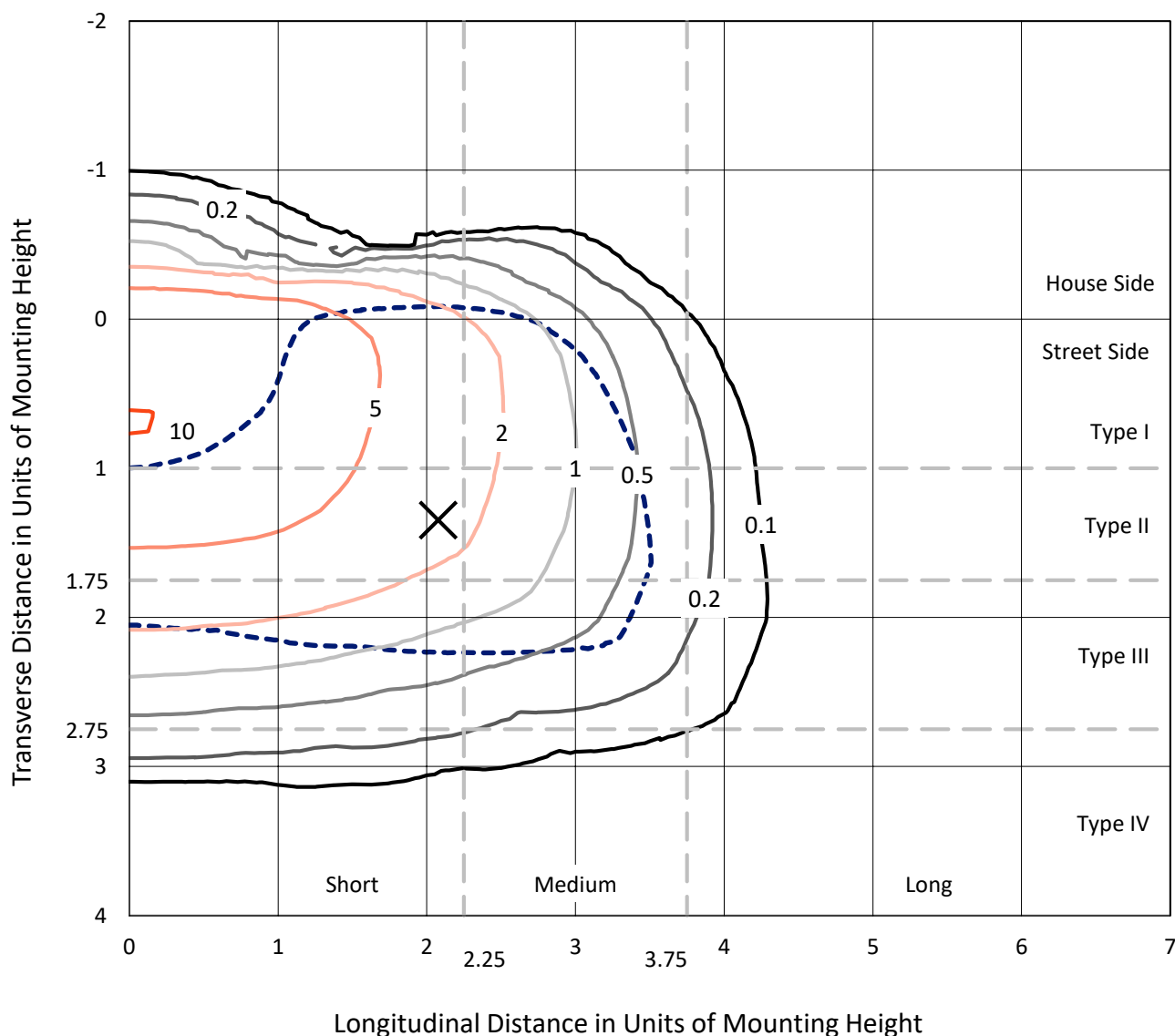
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



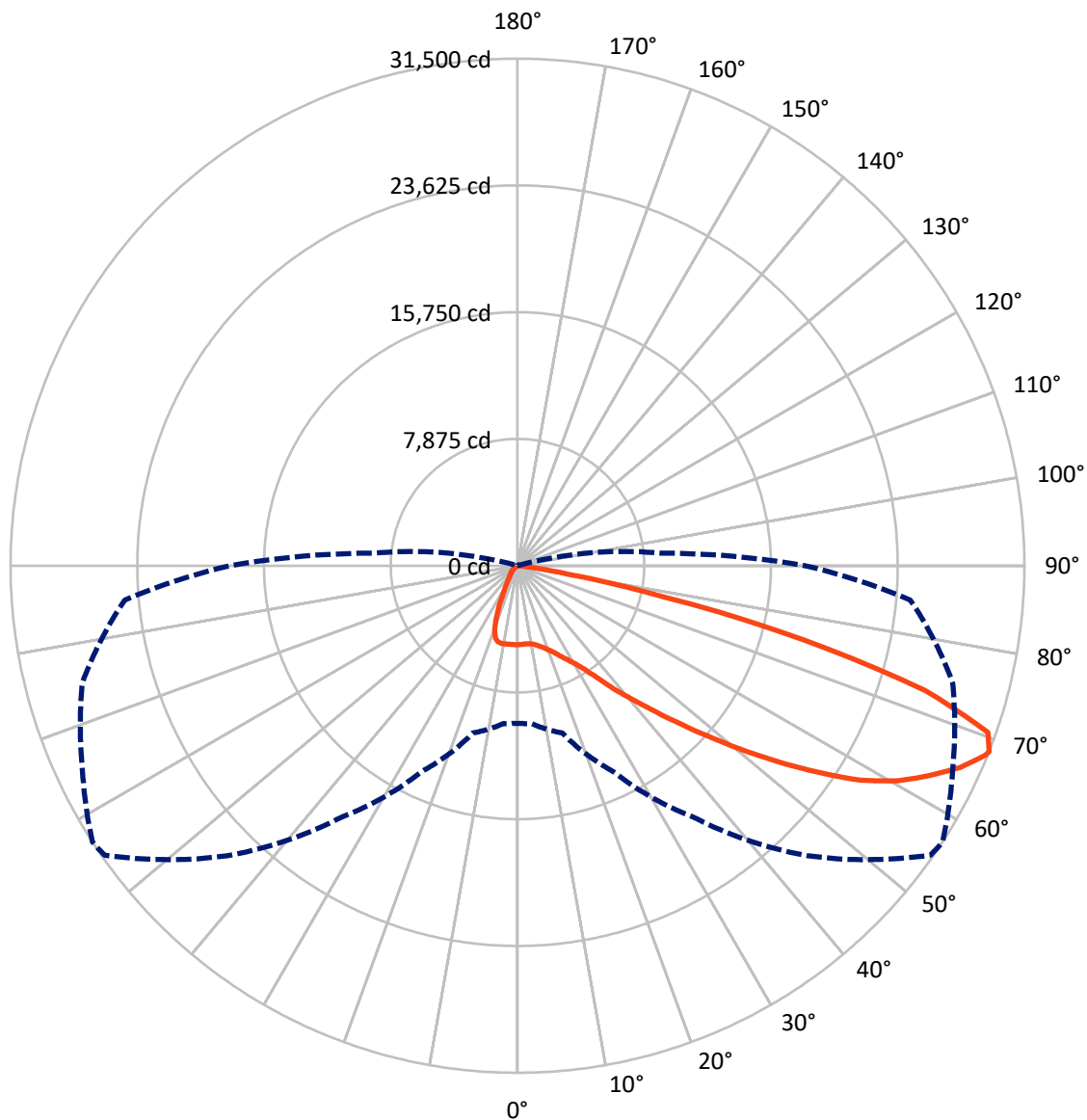
Based on 25 foot mounting height. Maximum calculated value = 10.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4529.7	0.0	4529.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	36778.3	0.0	36778.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	41308.0	0.0	41308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.4	1.1
10°-20°	1272.9	3.1
20°-30°	2195.9	5.3
30°-40°	3790.0	9.2
40°-50°	6483.0	15.7
50°-60°	10372.1	25.1
60°-70°	11983.8	29.0
70°-80°	4579.2	11.1
80°-90°	171.7	0.4
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°	41308.0	100.0
0°-180°	41308.0	100.0

Coefficient of Utilization



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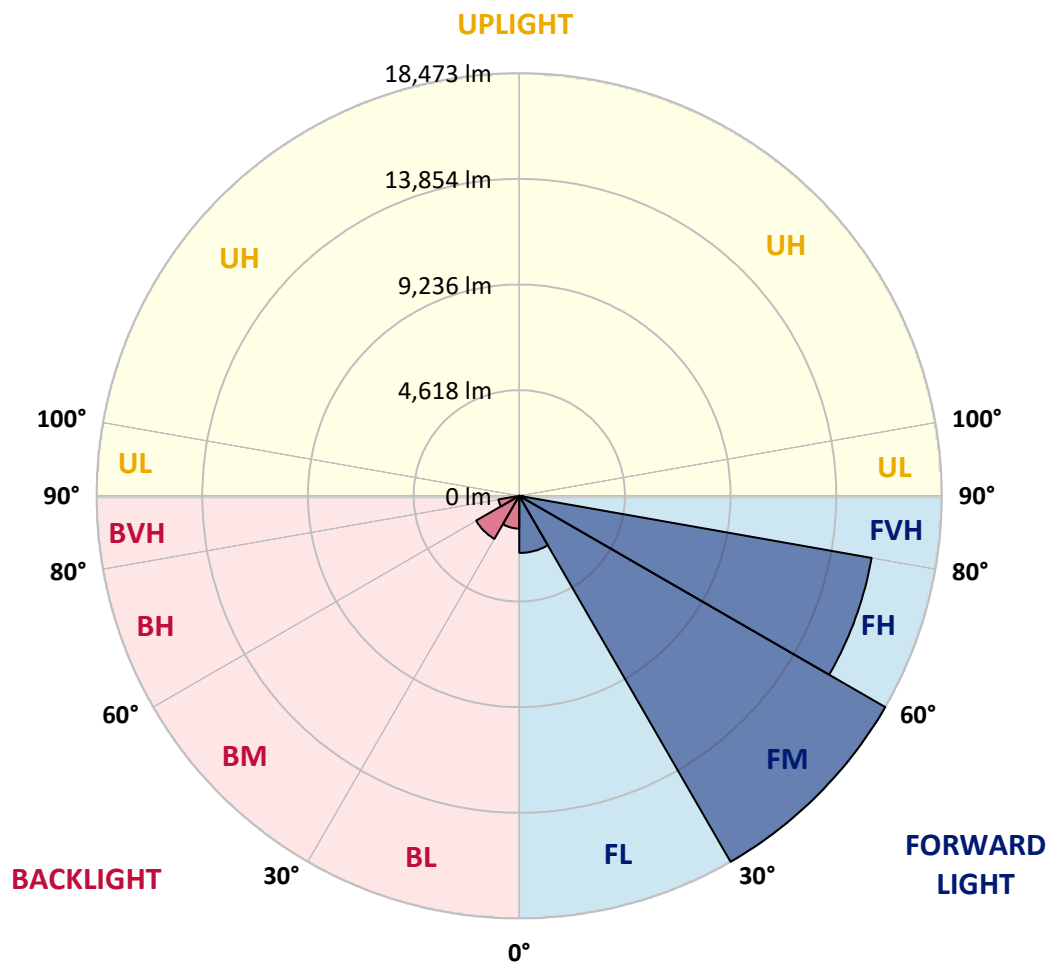
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2496.7	6.0			
FM	(30°-60°)	18472.6	44.7			
FH	(60°-80°)	15640.5	37.9			G5
FVH	(80°-90°)	168.5	0.4			G2/225
BL	(0°-30°)	1431.5	3.5	B3/2500		
BM	(30°-60°)	2172.5	5.3	B2/2500		
BH	(60°-80°)	922.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5
2.5°	4793.2	4814.7	4830.4	4840.1	4851.8	4877.2	4885.0	4896.8	4902.6	4902.6	4916.3
5°	4603.8	4627.2	4660.4	4687.8	4742.5	4812.8	4863.6	4883.1	4918.2	4949.5	4967.1
7.5°	4428.0	4455.3	4494.4	4558.9	4652.6	4765.9	4871.4	4898.7	4967.1	5033.5	5066.7
10°	4314.7	4336.2	4387.0	4478.8	4601.8	4760.0	4908.5	4941.7	5058.9	5170.2	5232.7
12.5°	4275.6	4295.2	4347.9	4451.4	4603.8	4789.3	4994.4	5043.3	5215.1	5377.3	5465.2
15°	4332.3	4336.2	4392.8	4490.5	4640.9	4861.6	5137.0	5195.6	5412.4	5623.4	5732.7
17.5°	4551.0	4533.5	4562.8	4605.7	4724.9	4957.3	5287.4	5375.3	5664.4	5912.4	6016.0
20°	5097.9	5097.9	5031.5	4914.3	4916.3	5105.8	5490.5	5590.2	5943.7	6230.8	6324.6
22.5°	6033.5	6016.0	5883.1	5596.0	5332.3	5361.6	5738.6	5867.5	6279.7	6586.3	6617.6
25°	7158.6	7137.1	6932.0	6527.7	6070.7	5775.7	6074.6	6223.0	6680.1	6951.6	6887.1
27.5°	8350.1	8332.5	8129.4	7627.4	6977.0	6435.9	6475.0	6615.6	7088.3	7355.9	7150.8
30°	9504.4	9510.3	9309.1	8793.5	8057.1	7277.8	6982.8	7064.9	7484.8	7756.3	7463.3
32.5°	10602.2	10610.0	10436.1	9859.9	9172.4	8256.3	7686.0	7664.5	7945.8	8213.4	7877.4
35°	11580.7	11600.3	11481.1	11033.8	10305.3	9346.2	8598.1	8547.4	8600.1	8902.8	8512.2
37.5°	12524.1	12535.9	12446.0	12069.0	11459.6	10543.6	9750.5	9678.3	9565.0	9797.4	9350.1
40°	13557.4	13528.1	13424.6	13082.8	12559.3	11865.9	10988.9	10863.9	10666.6	10873.7	10451.8
42.5°	14518.4	14485.2	14502.8	14116.0	13674.6	13225.4	12432.3	12217.5	12102.2	12340.5	11803.4
45°	15719.6	15702.1	15760.7	15424.7	15067.3	14741.1	14086.7	13852.3	13801.6	14080.9	13438.3
47.5°	16905.2	16948.2	17129.9	16987.3	16842.7	16555.6	15838.8	15733.3	15764.6	16102.5	15163.0
50°	17893.6	17944.4	18442.4	18606.5	18815.5	18647.5	17928.7	17864.3	17987.3	18292.0	17018.5
52.5°	18608.5	18712.0	19331.2	20087.1	20848.8	20962.1	20245.3	20186.7	20352.7	20399.6	18452.2
55°	19104.6	19196.4	19897.6	21280.5	22831.4	23319.7	22874.3	22647.8	22616.5	22153.6	19960.1
57.5°	19192.5	19182.7	20190.6	22052.0	24386.1	25646.0	25364.7	25142.0	24501.4	23774.8	21688.7
60°	18696.4	18753.0	19923.0	22319.6	25362.8	27405.8	27427.3	27138.2	26140.1	25351.0	23364.6
62.5°	17168.9	17399.4	18581.1	21618.4	25351.0	28114.9	28939.1	28718.4	27525.0	26642.1	25063.9
65°	14692.2	14774.3	15901.3	19215.9	23638.0	27818.0	30300.5	30218.5	28773.1	27896.1	25937.0
67.5°	10729.1	10551.4	11735.0	15131.7	20012.8	26087.4	31277.2	31380.7	29736.0	28153.9	25007.3
68°	9791.6	9844.3	10766.2	14121.9	19063.6	25476.0	31341.6	31499.8	29831.8	27986.0	24499.4
70°	5836.3	5937.8	6760.1	9723.2	14502.8	22016.9	30646.3	31007.6	29261.4	26253.4	21190.6
72.5°	1490.3	1611.4	2388.8	4351.8	8283.7	15512.6	25870.6	26482.0	25405.7	21298.1	14305.5
75°	613.3	644.6	853.6	1433.7	3086.1	6988.7	17051.7	18360.4	17612.3	12750.7	6465.2
77.5°	423.9	445.3	548.9	795.0	1336.0	2369.3	8359.8	9305.2	8383.3	4351.8	1410.2
80°	304.7	322.3	392.6	529.3	767.6	845.8	2724.8	3150.6	2502.1	955.1	349.6
82.5°	181.7	195.3	293.0	377.0	466.8	404.3	677.8	769.6	724.7	474.6	156.3
85°	89.8	105.5	197.3	269.5	252.0	169.9	207.0	230.5	285.2	289.1	84.0
87.5°	5.9	11.7	115.2	162.1	70.3	39.1	60.6	74.2	101.6	142.6	35.2
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°	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5	4908.5
2.5°	4922.2	4924.1	4910.4	4904.6	4908.5	4885.0	4875.3	4879.2	4879.2	4885.0	4875.3
5°	4971.0	4971.0	4947.5	4916.3	4898.7	4853.8	4824.5	4816.7	4810.8	4806.9	4799.1
7.5°	5076.5	5064.7	5023.7	4955.4	4896.8	4799.1	4724.9	4685.8	4666.3	4658.5	4652.6
10°	5246.4	5224.9	5156.5	5029.6	4894.8	4721.0	4558.9	4443.6	4347.9	4308.8	4285.4
12.5°	5474.9	5443.7	5328.4	5117.5	4881.1	4560.8	4209.2	3871.3	3556.8	3427.9	3363.5
15°	5738.6	5693.7	5512.0	5191.7	4801.1	4199.5	3435.7	2843.9	2408.3	2244.3	2174.0
17.5°	6006.2	5947.6	5672.2	5238.6	4560.8	3451.4	2410.3	1820.4	1529.4	1451.3	1423.9
20°	6275.7	6189.8	5810.9	5203.4	4017.8	2488.4	1589.9	1330.2	1246.2	1222.7	1214.9
22.5°	6531.6	6398.8	5935.9	5066.7	3181.8	1670.0	1257.9	1175.8	1148.5	1134.8	1130.9
25°	6754.3	6568.7	6045.3	4644.8	2252.1	1261.8	1132.9	1105.5	1070.4	1045.0	1046.9
27.5°	6963.3	6738.7	6111.7	3949.4	1502.0	1078.2	1048.9	1011.8	947.3	910.2	910.2
30°	7215.2	6965.2	6160.5	3039.2	1105.5	953.2	929.7	873.1	785.2	736.4	736.4
32.5°	7594.2	7309.0	6129.3	2132.9	916.1	837.9	783.2	705.1	609.4	562.5	560.6
35°	8174.3	7840.3	5906.6	1398.5	808.6	728.6	640.7	545.0	461.0	421.9	419.9
37.5°	8955.6	8551.3	5406.6	1000.1	724.7	627.0	521.5	416.0	353.5	328.1	326.2
40°	9969.3	9377.5	4691.7	810.6	646.5	529.3	402.4	322.3	279.3	259.8	261.7
42.5°	11186.2	10262.3	3834.2	699.3	570.3	435.6	314.5	253.9	226.6	212.9	209.0
45°	12537.8	11135.4	2935.7	623.1	494.2	351.6	246.1	201.2	179.7	171.9	171.9
47.5°	14024.2	11985.0	2148.6	556.7	412.1	271.5	197.3	164.1	146.5	140.6	138.7
50°	15373.9	12574.9	1548.9	486.4	337.9	214.9	160.2	136.7	125.0	117.2	117.2
52.5°	16499.0	12760.5	1140.7	410.2	273.5	171.9	132.8	117.2	105.5	99.6	99.6
55°	17489.3	12684.3	847.7	337.9	220.7	140.6	113.3	99.6	89.8	84.0	84.0
57.5°	18438.5	12438.2	632.8	275.4	177.7	113.3	95.7	84.0	74.2	70.3	70.3
60°	19214.0	12028.0	470.7	222.7	142.6	91.8	80.1	68.4	60.6	54.7	54.7
62.5°	19842.9	11574.9	345.7	183.6	113.3	72.3	62.5	56.6	44.9	39.1	39.1
65°	19846.8	10822.9	259.8	152.4	87.9	56.6	46.9	44.9	29.3	23.4	21.5
67.5°	18411.2	9330.6	199.2	130.9	68.4	43.0	35.2	37.1	15.6	9.8	7.8
68°	17889.7	8951.7	187.5	128.9	64.5	41.0	33.2	37.1	13.7	7.8	5.9
70°	15082.9	7121.5	150.4	125.0	56.6	31.3	27.3	37.1	11.7	5.9	3.9
72.5°	9647.0	4133.0	111.3	99.6	43.0	23.4	17.6	33.2	11.7	3.9	2.0
75°	4105.7	1281.3	76.2	70.3	25.4	17.6	11.7	21.5	7.8	2.0	0.0
77.5°	865.3	289.1	44.9	43.0	17.6	11.7	7.8	5.9	2.0	0.0	0.0
80°	222.7	84.0	23.4	21.5	9.8	5.9	3.9	0.0	0.0	0.0	0.0
82.5°	70.3	33.2	13.7	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.2	19.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	5.9	2.0	0.0	0.0	0.0	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)