

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: P322892

Luminaire Tested: **GAN-SA8C-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41086 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

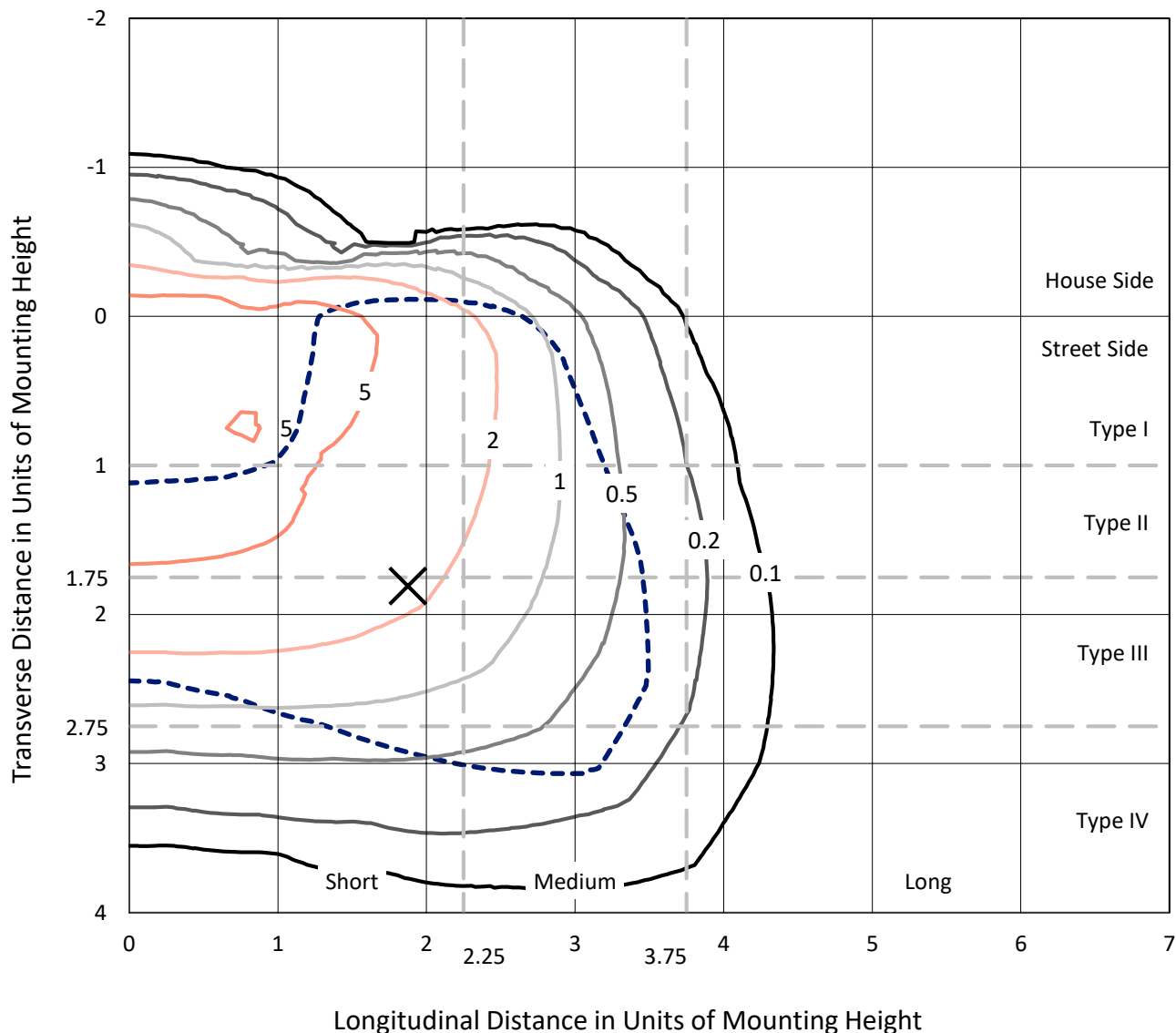
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

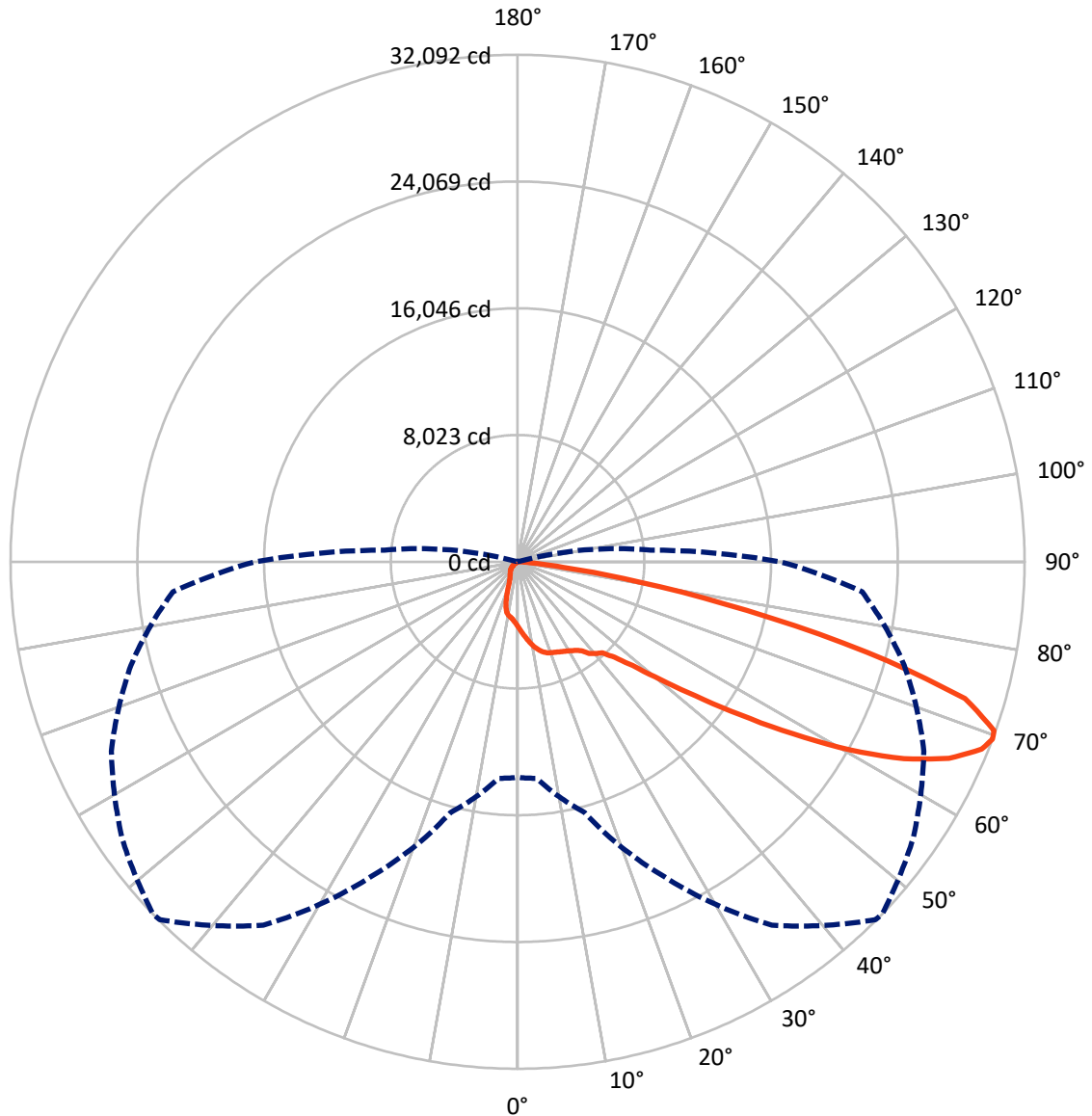
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4216.5	0.0	4216.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	36869.5	0.0	36869.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	41086.0	0.0	41086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.8	1.0
10°-20°	1243.1	3.0
20°-30°	1955.0	4.8
30°-40°	2803.4	6.8
40°-50°	4845.4	11.8
50°-60°	9572.5	23.3
60°-70°	13378.4	32.6
70°-80°	6463.2	15.7
80°-90°	415.4	1.0
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°	41086.0	100.0
0°-180°	41086.0	100.0

Coefficient of Utilization

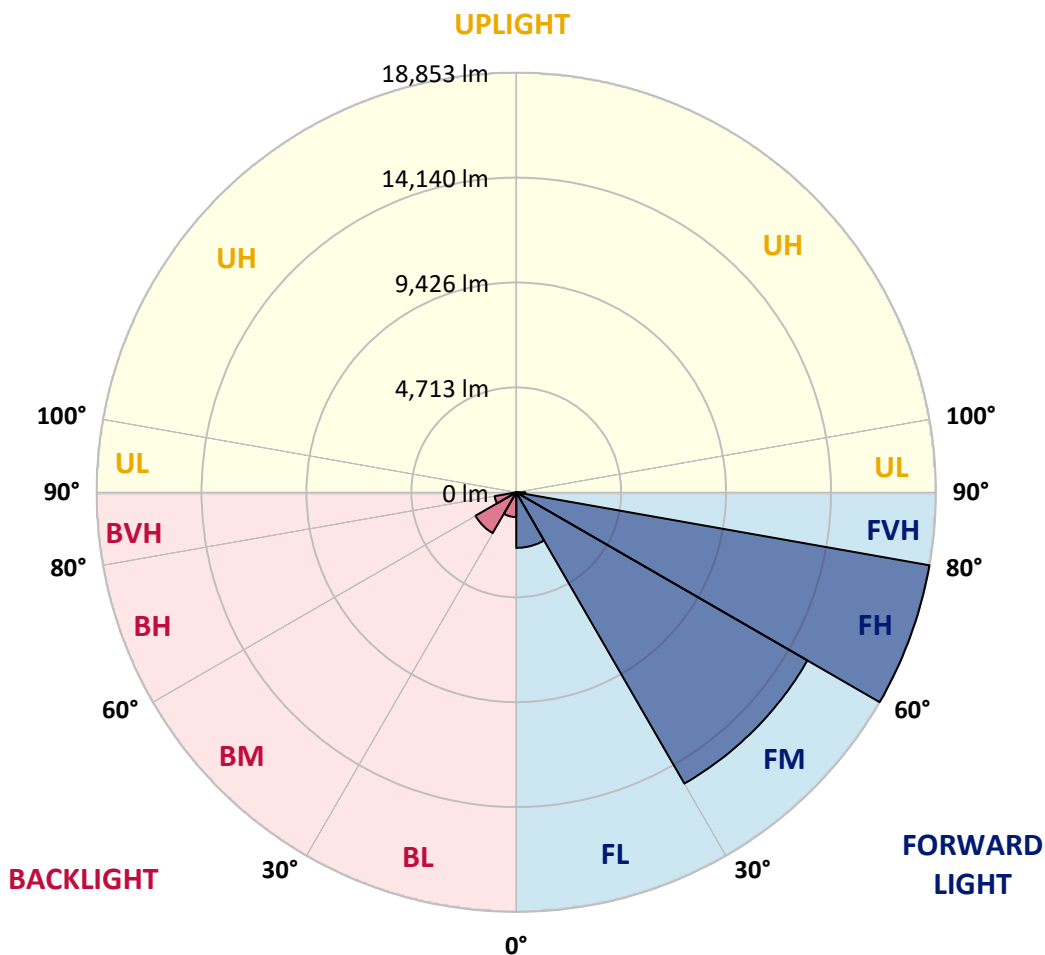


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2496.5	6.1			
FM (30°-60°)	15108.2	36.8			
FH (60°-80°)	18852.9	45.9			G5
FVH (80°-90°)	411.9	1.0			G3/500
BL (0°-30°)	1111.3	2.7	B3/2500		
BM (30°-60°)	2113.0	5.1	B2/2500		
BH (60°-80°)	988.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7
2.5°	4573.2	4567.4	4540.5	4528.9	4463.4	4424.9	4409.5	4361.3	4292.0	4222.6	4145.6
5°	5093.3	5091.4	5041.3	4993.2	4869.9	4754.3	4733.1	4621.4	4465.3	4318.9	4172.5
7.5°	5625.0	5600.0	5549.9	5457.4	5278.3	5093.3	5076.0	4918.0	4696.5	4484.6	4274.6
10°	6075.8	6060.4	5994.9	5854.3	5644.3	5434.3	5413.1	5218.6	4968.1	4708.1	4440.3
12.5°	6426.4	6414.8	6328.1	6152.8	5929.4	5711.7	5682.8	5509.4	5241.7	4950.8	4634.9
15°	6640.2	6634.4	6528.5	6341.6	6122.0	5933.2	5908.2	5756.0	5507.5	5203.1	4846.8
17.5°	6690.3	6692.2	6582.4	6393.6	6212.6	6077.7	6058.4	5942.9	5734.8	5432.4	5058.7
20°	6578.6	6601.7	6503.4	6339.7	6228.0	6156.7	6141.3	6071.9	5896.6	5611.5	5228.2
22.5°	6420.6	6432.2	6364.7	6254.9	6208.7	6222.2	6214.5	6176.0	6027.6	5765.6	5395.8
25°	6324.3	6324.3	6283.8	6191.4	6222.2	6305.0	6307.0	6299.2	6181.7	5954.4	5600.0
27.5°	6320.4	6308.9	6262.6	6193.3	6278.1	6405.2	6412.9	6464.9	6391.7	6183.7	5854.3
30°	6474.5	6461.1	6362.8	6272.3	6380.2	6516.9	6536.2	6649.8	6613.2	6432.2	6137.4
32.5°	6834.8	6786.6	6568.9	6420.6	6501.5	6665.3	6690.3	6871.4	6929.2	6738.5	6411.0
35°	7327.9	7175.7	6861.7	6701.9	6709.6	6881.0	6904.1	7170.0	7341.4	7019.7	6622.9
37.5°	8007.9	7932.8	7422.3	6994.7	7029.3	7289.4	7356.8	7645.8	7597.6	7173.8	6863.7
40°	9499.0	9381.4	8838.2	7815.3	7335.6	7620.7	7641.9	7796.0	7799.9	7522.5	7364.5
42.5°	11529.4	11481.2	10909.1	9304.4	7938.6	7842.3	7880.8	8140.9	8431.7	8258.4	8250.7
45°	13777.4	13752.4	13145.6	11280.9	9158.0	8568.5	8616.7	8965.3	9522.1	9560.6	9805.2
47.5°	15586.3	15574.7	15226.1	13486.6	11024.6	9799.5	9814.9	10184.7	11163.3	11646.9	12037.9
50°	17235.3	17291.1	17015.7	15873.3	13567.5	11727.8	11691.2	11937.7	13509.7	14301.4	14786.9
52.5°	19527.7	19606.6	18834.2	18100.2	16235.5	14120.3	14091.4	14349.6	16329.9	16923.2	17009.9
55°	21552.3	21417.4	20806.8	20594.9	19489.1	17075.4	17067.7	17295.0	19057.6	19310.0	19469.9
57.5°	22446.1	22394.1	22688.8	23174.3	22896.9	20567.9	20550.6	20377.2	21498.3	21525.3	22016.5
60°	23010.6	23074.1	23977.6	25474.4	26166.0	24326.3	24214.5	23157.0	23829.3	23769.5	24295.4
62.5°	22586.7	22712.0	24337.8	26832.5	28612.4	27606.9	27448.9	25703.6	25821.1	25615.0	26104.3
65°	20336.7	20531.3	23195.5	26576.3	29826.1	30170.9	30011.0	27951.7	27402.7	27063.6	26792.0
67.5°	16512.9	16628.5	19410.2	24347.5	29279.0	31700.4	31667.7	29922.4	28597.0	26819.0	24711.5
69°	13646.4	13760.1	16437.8	22001.1	28075.0	32027.9	32091.5	30554.2	28369.7	25331.8	21895.2
70°	11558.3	11679.6	14174.3	19990.0	26678.4	31875.7	31989.4	30494.5	27718.6	23609.7	19423.6
72.5°	6062.3	6166.3	8726.5	13771.7	21748.8	29269.3	29614.2	27917.0	23496.0	17146.7	11485.0
75°	1905.2	1964.9	3407.8	7198.9	14890.9	22758.2	22837.2	21899.0	16684.3	9431.5	4783.2
77.5°	726.2	708.9	1134.6	2652.6	7528.3	14330.3	14813.8	13685.0	8755.4	3334.6	1103.8
80°	391.1	393.0	589.5	1098.0	3220.9	7364.5	7772.9	6632.5	3111.1	1040.2	254.3
82.5°	169.5	177.2	331.3	581.8	1479.5	2716.2	2920.4	2431.1	1188.6	699.3	94.4
85°	36.6	40.5	159.9	315.9	603.0	762.8	799.4	787.9	757.1	543.2	36.6
87.5°	0.0	0.0	71.3	113.7	152.2	173.4	152.2	198.4	418.0	366.0	19.3
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°	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7	4116.7
2.5°	4120.5	4085.8	4026.1	3960.6	3914.4	3866.2	3827.7	3810.4	3791.1	3777.6	3795.0
5°	4112.8	4045.4	3929.8	3818.1	3737.2	3671.7	3617.7	3596.5	3575.4	3559.9	3558.0
7.5°	4180.2	4085.8	3908.6	3744.9	3619.7	3531.0	3457.8	3427.0	3402.0	3390.4	3380.8
10°	4309.3	4187.9	3951.0	3737.2	3575.4	3425.1	3267.1	3145.8	3066.8	3030.2	3016.7
12.5°	4476.9	4324.7	4031.9	3777.6	3542.6	3253.6	2918.5	2629.5	2442.6	2381.0	2344.4
15°	4673.4	4484.6	4137.9	3829.6	3423.2	2895.3	2327.1	1949.5	1776.1	1741.4	1702.9
17.5°	4862.2	4654.1	4265.0	3839.3	3161.2	2313.6	1704.8	1448.6	1381.2	1404.3	1410.1
20°	5027.8	4821.7	4390.2	3754.5	2685.4	1735.7	1319.6	1256.0	1281.0	1325.3	1333.1
22.5°	5195.4	4983.5	4505.8	3531.0	2076.6	1317.6	1188.6	1204.0	1229.0	1273.3	1281.0
25°	5399.6	5180.0	4613.7	3120.7	1558.4	1121.2	1128.9	1152.0	1177.0	1217.5	1221.3
27.5°	5634.6	5428.5	4684.9	2587.1	1155.8	1030.6	1055.7	1090.3	1115.4	1153.9	1161.6
30°	5946.7	5756.0	4708.1	2034.3	969.0	949.7	961.3	1003.6	1040.2	1074.9	1080.7
32.5°	6239.5	6079.6	4631.0	1535.3	897.7	874.6	874.6	899.6	942.0	974.7	982.5
35°	6509.2	6405.2	4384.4	1123.1	843.8	805.2	786.0	786.0	812.9	839.9	847.6
37.5°	6865.6	6861.7	3985.7	895.8	791.7	747.4	707.0	676.2	666.5	672.3	676.2
40°	7476.3	7482.0	3465.5	803.3	747.4	687.7	626.1	570.2	518.2	500.9	498.9
42.5°	8429.8	8343.1	2920.4	759.0	708.9	626.1	533.6	458.5	377.6	352.5	350.6
45°	9943.9	9429.6	2342.5	718.5	668.5	556.7	441.1	339.0	273.5	254.3	254.3
47.5°	12149.6	10857.1	1814.6	674.2	614.5	477.7	333.3	244.6	200.3	190.7	192.6
50°	14430.5	12255.6	1390.8	618.4	549.0	394.9	246.6	177.2	152.2	152.2	154.1
52.5°	16453.2	13280.4	1084.5	558.6	468.1	310.1	186.9	138.7	127.1	125.2	127.1
55°	18346.8	13941.2	830.3	489.3	371.8	231.2	142.6	113.7	106.0	102.1	100.2
57.5°	20173.0	14268.7	622.2	394.9	269.7	167.6	113.7	96.3	88.6	82.8	80.9
60°	21388.5	14002.8	427.7	290.9	186.9	121.4	94.4	82.8	73.2	67.4	65.5
62.5°	22074.3	13276.6	275.5	210.0	132.9	90.5	75.1	69.3	55.9	50.1	50.1
65°	21796.9	12078.4	192.6	150.3	96.3	67.4	55.9	55.9	40.5	32.7	30.8
67.5°	19315.8	10204.0	146.4	111.7	69.3	50.1	42.4	48.2	25.0	15.4	15.4
69°	16618.8	8456.8	125.2	92.5	57.8	40.5	36.6	44.3	17.3	11.6	9.6
70°	14444.0	7295.2	113.7	80.9	48.2	34.7	32.7	42.4	17.3	9.6	7.7
72.5°	8641.7	4068.5	86.7	57.8	30.8	27.0	27.0	48.2	17.3	9.6	7.7
75°	3492.5	1433.2	63.6	40.5	23.1	23.1	32.7	61.6	15.4	7.7	5.8
77.5°	791.7	314.0	36.6	25.0	15.4	23.1	38.5	48.2	9.6	3.9	0.0
80°	192.6	77.1	23.1	15.4	9.6	17.3	28.9	27.0	1.9	0.0	0.0
82.5°	63.6	27.0	9.6	7.7	1.9	5.8	13.5	7.7	0.0	0.0	0.0
85°	27.0	15.4	3.9	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.3	5.8	0.0	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)