

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: P322613

Luminaire Tested: **GAN-SA9C-750-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44904 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

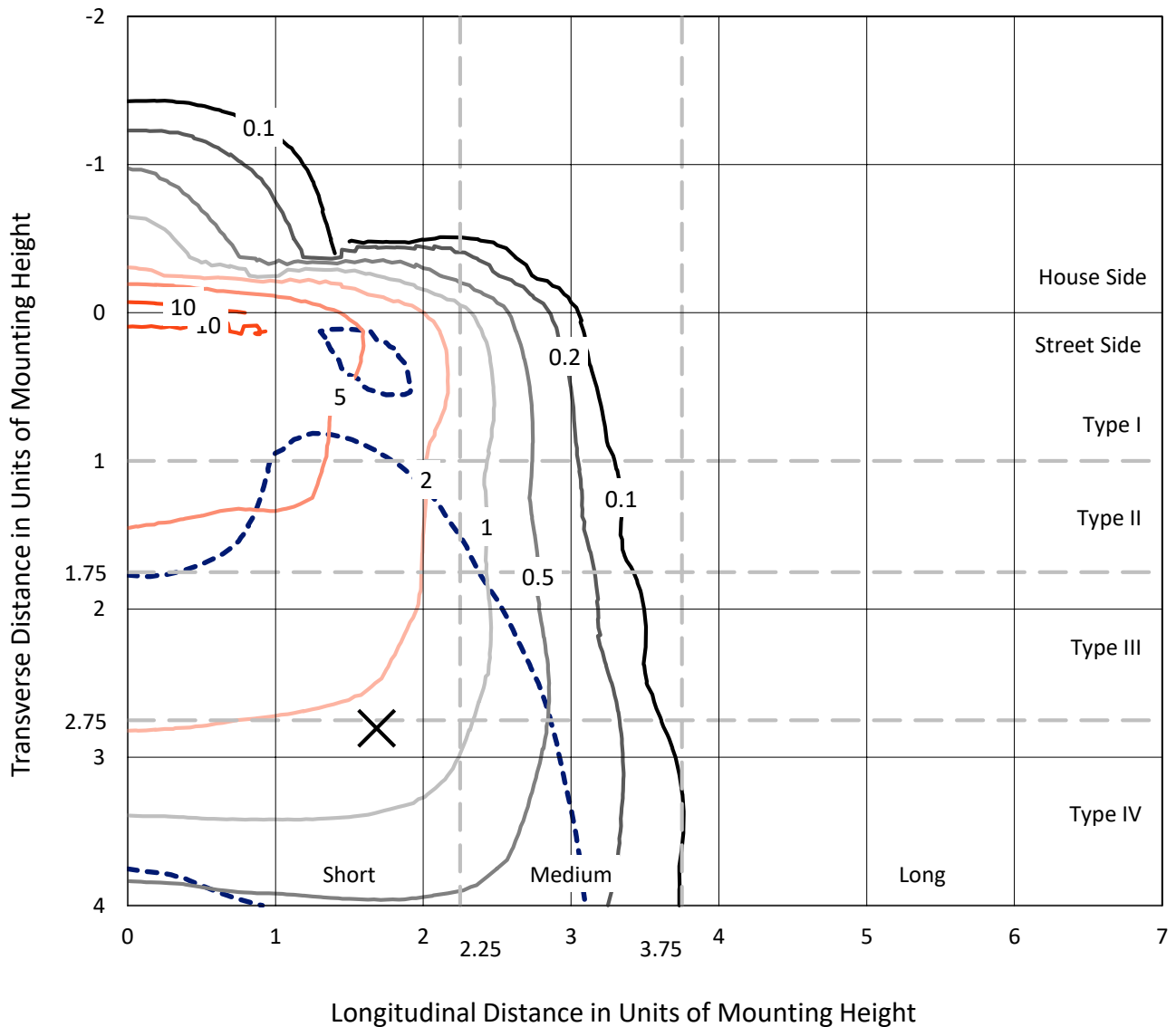
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

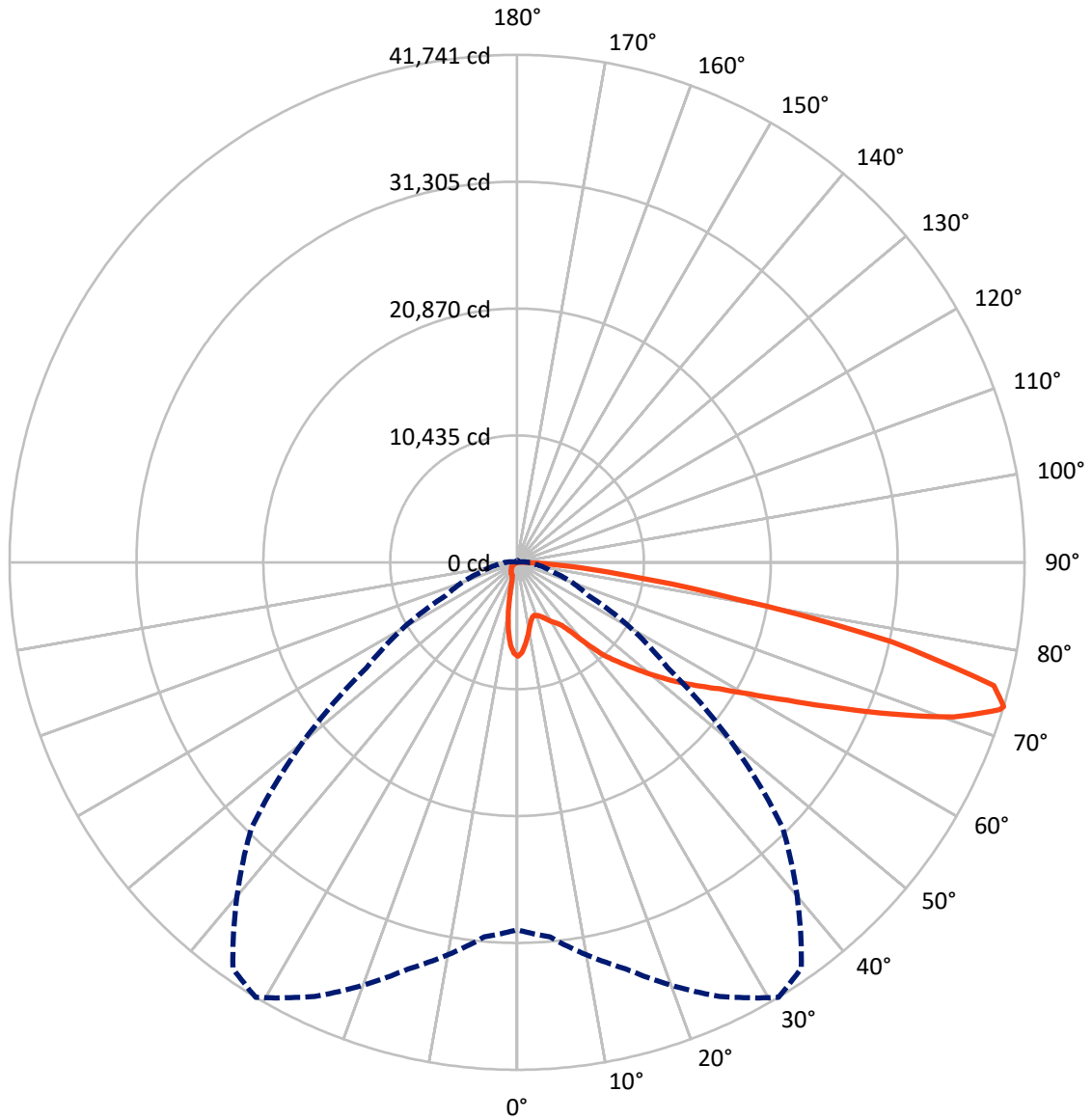
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4093.2	0.0	4093.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	40810.8	0.0	40810.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	44904.0	0.0	44904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	1.4
10°-20°	1390.9	3.1
20°-30°	2083.9	4.6
30°-40°	3315.6	7.4
40°-50°	5920.7	13.2
50°-60°	9187.2	20.5
60°-70°	12213.1	27.2
70°-80°	9186.7	20.5
80°-90°	965.3	2.1
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°	44904.0	100.0
0°-180°	44904.0	100.0

Coefficient of Utilization

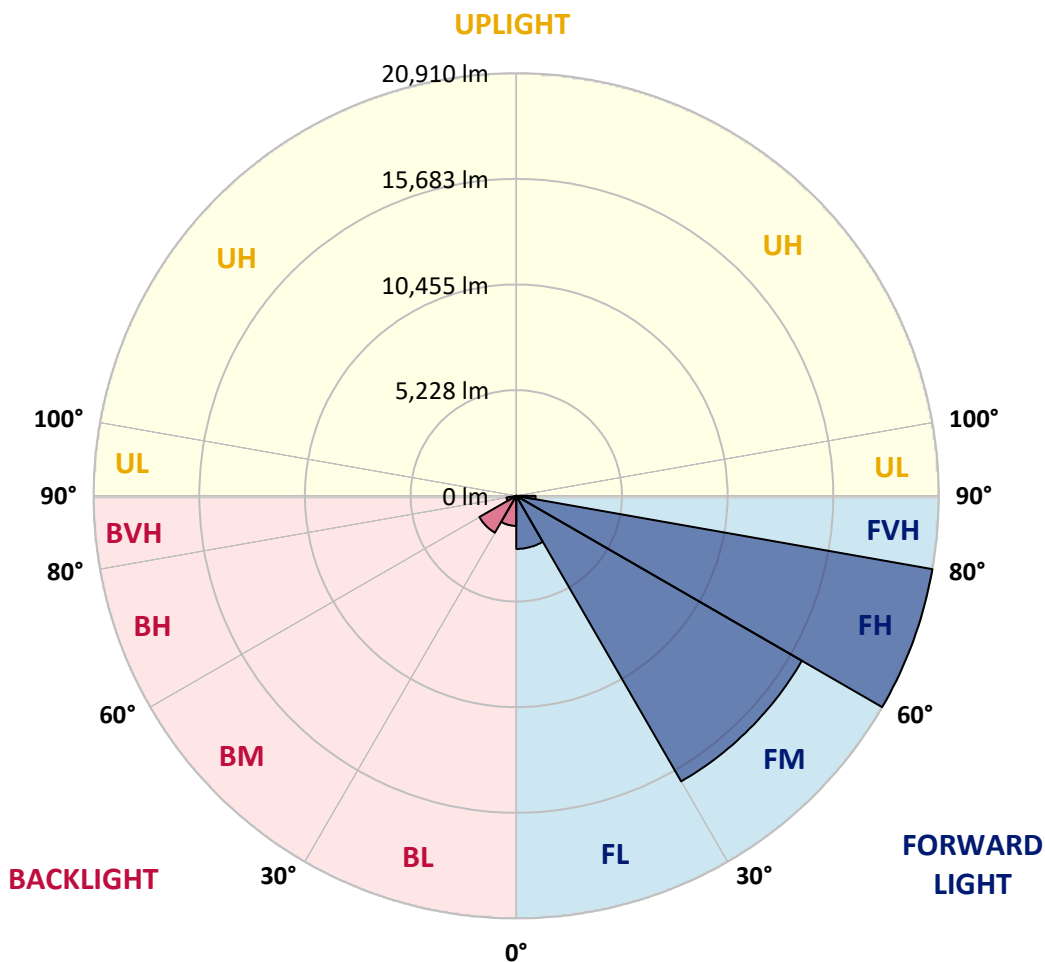


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2626.9	5.9			
FM (30°-60°)	16316.6	36.3			
FH (60°-80°)	20910.1	46.6			G5
FVH (80°-90°)	957.2	2.1			G5
BL (0°-30°)	1488.4	3.3	B3/2500		
BM (30°-60°)	2106.9	4.7	B2/2500		
BH (60°-80°)	489.7	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8
2.5°	7321.5	7352.3	7385.2	7391.8	7446.8	7449.0	7528.1	7587.4	7646.7	7703.9	7723.6
5°	6570.0	6620.6	6679.9	6739.2	6855.7	6901.8	7095.2	7293.0	7481.9	7662.1	7750.0
7.5°	5768.0	5825.1	5908.6	6055.9	6185.5	6275.6	6581.0	6932.6	7284.2	7616.0	7807.1
10°	5036.3	5089.0	5176.9	5332.9	5532.9	5655.9	6066.8	6554.6	7071.0	7574.2	7892.8
12.5°	4570.5	4599.0	4647.4	4814.4	4994.5	5133.0	5616.4	6220.7	6895.2	7572.0	8031.3
15°	4484.8	4493.5	4454.0	4528.7	4669.3	4803.4	5293.4	5950.4	6761.2	7607.2	8211.4
17.5°	4621.0	4616.6	4484.8	4476.0	4588.0	4697.9	5135.2	5763.6	6666.7	7688.5	8444.4
20°	4827.5	4812.2	4583.6	4541.9	4660.5	4763.8	5124.2	5693.3	6631.6	7824.7	8727.8
22.5°	5102.2	5075.8	4717.7	4673.7	4801.2	4908.8	5260.4	5761.4	6662.3	8007.1	9057.4
25°	5442.8	5403.2	4948.4	4900.1	5029.7	5137.4	5504.3	5957.0	6754.6	8229.0	9474.9
27.5°	5827.3	5770.2	5317.5	5192.3	5339.5	5451.6	5829.5	6255.8	6899.6	8464.1	9986.9
30°	6189.9	6115.2	5706.5	5499.9	5680.1	5805.4	6181.1	6611.8	7132.5	8826.7	10687.8
32.5°	6554.6	6471.1	6053.7	5807.6	5970.2	6106.4	6543.7	7101.8	7569.8	9380.4	11619.5
35°	7394.0	7306.1	6794.2	6387.6	6385.5	6462.4	7051.2	7772.0	8147.7	10151.7	12731.4
37.5°	8806.9	8756.4	8268.6	7497.3	7290.8	7205.1	7743.4	8571.8	8978.3	11213.0	13986.0
40°	10353.8	10309.9	9762.8	9064.0	8749.8	8538.8	8736.6	9685.8	10151.7	12509.4	15267.1
42.5°	12100.7	11892.0	10916.4	10707.6	10426.3	10265.9	10088.0	11059.2	11593.1	13920.1	16537.1
45°	13687.2	13335.6	12070.0	11753.5	11689.8	11729.4	11828.2	12904.9	13214.8	15596.7	17802.8
47.5°	14632.0	14355.2	13384.0	13080.7	13063.1	13324.6	14071.7	14990.2	14829.8	17057.9	18916.8
50°	15530.8	15280.3	14473.8	14548.5	14629.8	14985.8	16618.4	17134.8	16304.2	18382.9	19938.6
52.5°	16258.1	15875.7	15453.8	15873.5	16273.5	16847.0	19246.4	19059.7	17350.1	19437.6	20813.1
55°	16677.8	16504.2	16708.5	17130.4	17881.9	18813.6	21727.2	20661.5	18114.8	20400.0	21395.4
57.5°	18215.9	17875.3	18281.8	18646.6	19626.6	20929.6	23852.1	21854.7	18666.3	20995.5	21529.5
60°	20077.0	19802.4	20041.9	20648.3	21971.1	23502.7	25838.4	22828.1	18954.2	21377.9	21182.3
62.5°	23039.0	22676.5	22527.1	23206.0	24959.5	26631.7	27345.8	23502.7	18890.5	21208.7	19991.3
65°	27007.4	26631.7	25963.7	26578.9	28809.2	29989.2	29031.2	23645.5	18451.0	19839.7	16981.0
67.5°	31072.5	30800.0	30228.7	31265.9	33278.6	33658.8	30813.2	23298.3	17035.9	16086.7	11997.4
70°	33757.6	33641.2	34012.5	36306.5	38101.8	37991.9	32448.0	21432.8	13278.5	9892.4	5935.0
72.5°	31821.8	32379.9	35122.2	39281.7	41474.7	40578.2	31608.6	16458.0	7589.6	3805.8	1716.1
73°	30217.7	30931.9	34623.4	39393.8	41740.6	40758.3	30903.3	15106.7	6469.0	3003.8	1300.8
75°	21021.9	21898.6	28664.2	36688.9	40496.9	38833.5	25759.3	9246.4	2997.2	1331.6	525.2
77.5°	10206.6	10854.8	15783.4	26508.6	31494.4	30340.8	16036.1	3445.4	1353.6	832.8	241.7
80°	3810.2	4236.5	6851.3	13491.6	18200.5	18677.3	7053.4	1303.0	900.9	670.2	123.1
82.5°	997.6	1111.9	2526.9	6016.3	9327.7	9762.8	2223.7	657.0	659.2	551.5	74.7
85°	318.6	364.8	788.8	2700.5	4394.7	3858.5	580.1	318.6	479.0	410.9	41.7
87.5°	39.6	50.5	250.5	635.0	969.0	538.3	90.1	94.5	204.4	228.5	24.2
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°	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8
2.5°	7743.4	7732.4	7734.6	7677.5	7640.1	7565.4	7488.5	7453.4	7416.0	7400.6	7416.0
5°	7783.0	7763.2	7706.0	7530.3	7343.5	7101.8	6875.5	6704.1	6488.7	6429.4	6490.9
7.5°	7844.5	7804.9	7637.9	7279.8	6864.5	6403.0	5884.5	5506.5	5196.7	4996.7	5069.2
10°	7934.6	7859.9	7523.7	6915.0	6172.3	5354.9	4618.8	4045.3	3638.8	3471.8	3465.2
12.5°	8086.2	7945.6	7383.0	6440.4	5326.3	4236.5	3271.8	2650.0	2320.4	2107.2	2102.8
15°	8253.2	8046.6	7205.1	5871.3	4341.9	3034.5	2107.2	1634.8	1421.7	1353.6	1344.8
17.5°	8457.5	8163.1	6974.3	5170.3	3311.4	2010.6	1375.5	1239.3	1230.5	1223.9	1223.9
20°	8714.6	8301.5	6677.7	4368.3	2348.9	1342.6	1169.0	1177.8	1182.2	1173.4	1175.6
22.5°	9013.5	8442.2	6323.9	3506.9	1588.7	1122.8	1118.4	1129.4	1133.8	1129.4	1131.6
25°	9360.6	8604.8	5893.2	2603.8	1147.0	1065.7	1076.7	1092.1	1103.1	1103.1	1103.1
27.5°	9791.3	8802.5	5374.7	1817.2	991.0	1006.4	1037.1	1065.7	1081.1	1085.5	1085.5
30°	10351.6	9048.6	4752.8	1245.9	900.9	927.3	984.4	1039.3	1067.9	1072.3	1074.5
32.5°	11059.2	9325.5	4032.1	920.7	824.0	843.8	905.3	997.6	1052.5	1061.3	1061.3
35°	11870.0	9646.3	3256.4	802.0	769.1	775.7	824.0	929.5	1026.2	1050.3	1052.5
37.5°	12757.7	9962.7	2476.4	749.3	722.9	722.9	758.1	848.2	962.4	1037.1	1045.9
40°	13586.1	10153.9	1735.9	707.5	681.2	681.2	711.9	777.9	885.5	997.6	1021.8
42.5°	14350.8	10219.8	1208.5	668.0	641.6	648.2	674.6	727.3	808.6	920.7	942.7
45°	15137.4	10208.8	881.1	621.8	602.1	621.8	641.6	681.2	740.5	804.2	808.6
47.5°	15730.7	10116.5	698.8	577.9	564.7	591.1	608.7	635.0	668.0	663.6	663.6
50°	16286.6	9892.4	562.5	518.6	527.4	558.1	566.9	575.7	577.9	536.1	531.8
52.5°	16708.5	9543.0	450.5	454.8	490.0	520.8	512.0	498.8	476.8	426.3	417.5
55°	16849.2	8870.6	353.8	375.7	435.1	474.6	441.7	413.1	371.3	329.6	320.8
57.5°	16594.3	8002.7	287.9	292.2	367.0	399.9	362.6	329.6	283.5	248.3	241.7
60°	16053.7	7038.1	237.3	219.7	283.5	312.0	287.9	254.9	213.1	186.8	184.6
62.5°	14981.4	6009.7	195.6	171.4	215.3	239.5	224.1	200.0	164.8	147.2	145.0
65°	12727.0	4807.8	158.2	138.4	167.0	186.8	173.6	156.0	129.6	116.5	114.3
67.5°	8883.8	3249.9	129.6	114.3	131.8	147.2	136.2	127.4	103.3	101.1	103.3
70°	4284.8	1566.7	107.7	92.3	103.3	114.3	109.9	103.3	98.9	114.3	131.8
72.5°	1228.3	525.2	85.7	76.9	83.5	90.1	94.5	92.3	107.7	138.4	160.4
73°	944.9	424.1	81.3	72.5	79.1	87.9	92.3	90.1	109.9	140.6	160.4
75°	404.3	204.4	61.5	59.3	65.9	76.9	81.3	81.3	109.9	142.8	153.8
77.5°	182.4	109.9	39.6	46.1	57.1	61.5	68.1	68.1	87.9	109.9	109.9
80°	103.3	59.3	30.8	35.2	41.7	41.7	41.7	37.4	39.6	43.9	48.3
82.5°	65.9	39.6	24.2	28.6	26.4	22.0	17.6	17.6	15.4	17.6	22.0
85°	37.4	22.0	22.0	17.6	11.0	8.8	11.0	8.8	2.2	0.0	2.2
87.5°	22.0	13.2	6.6	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)