

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: P193448

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5WQ-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55551 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 640
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

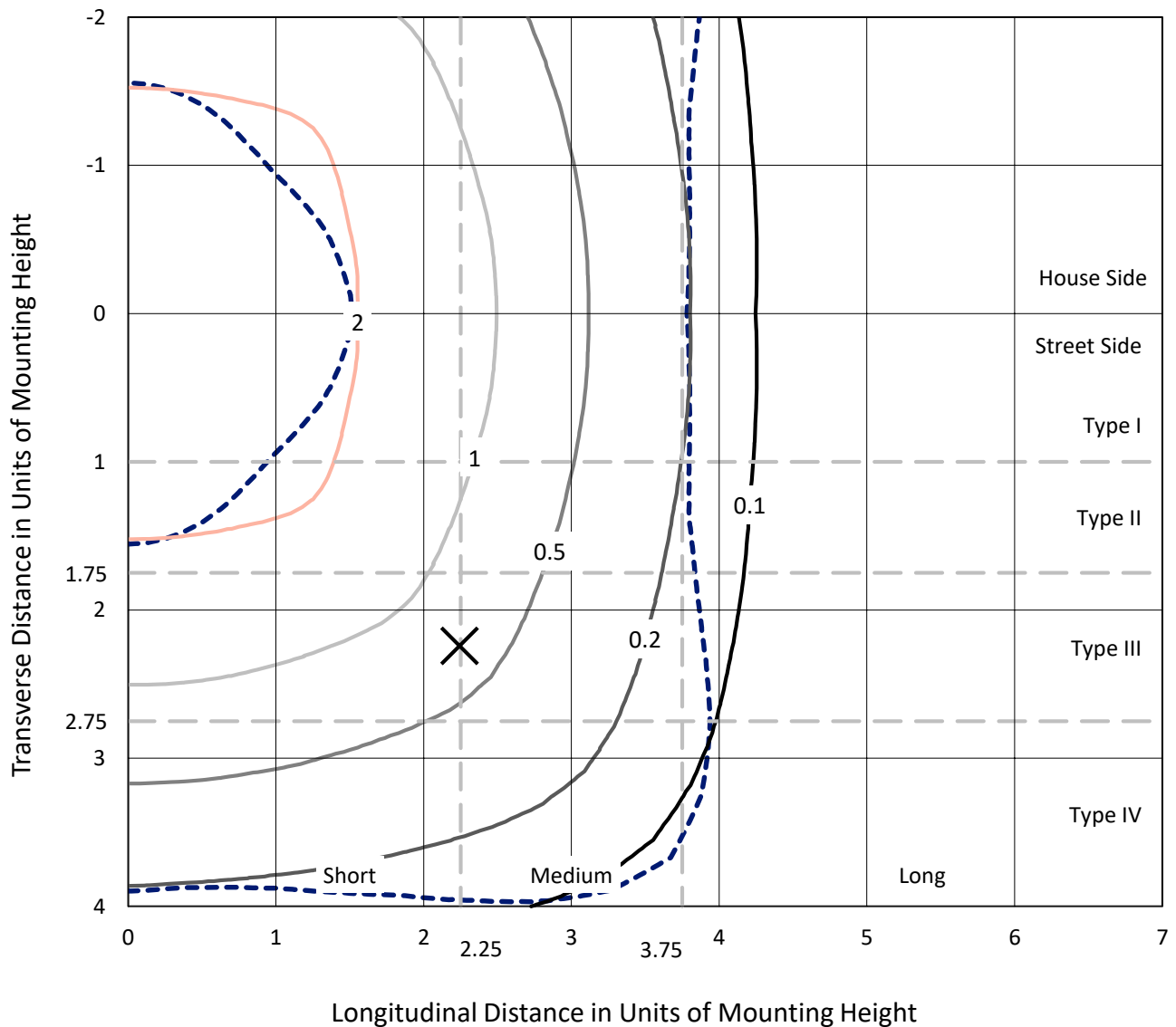


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

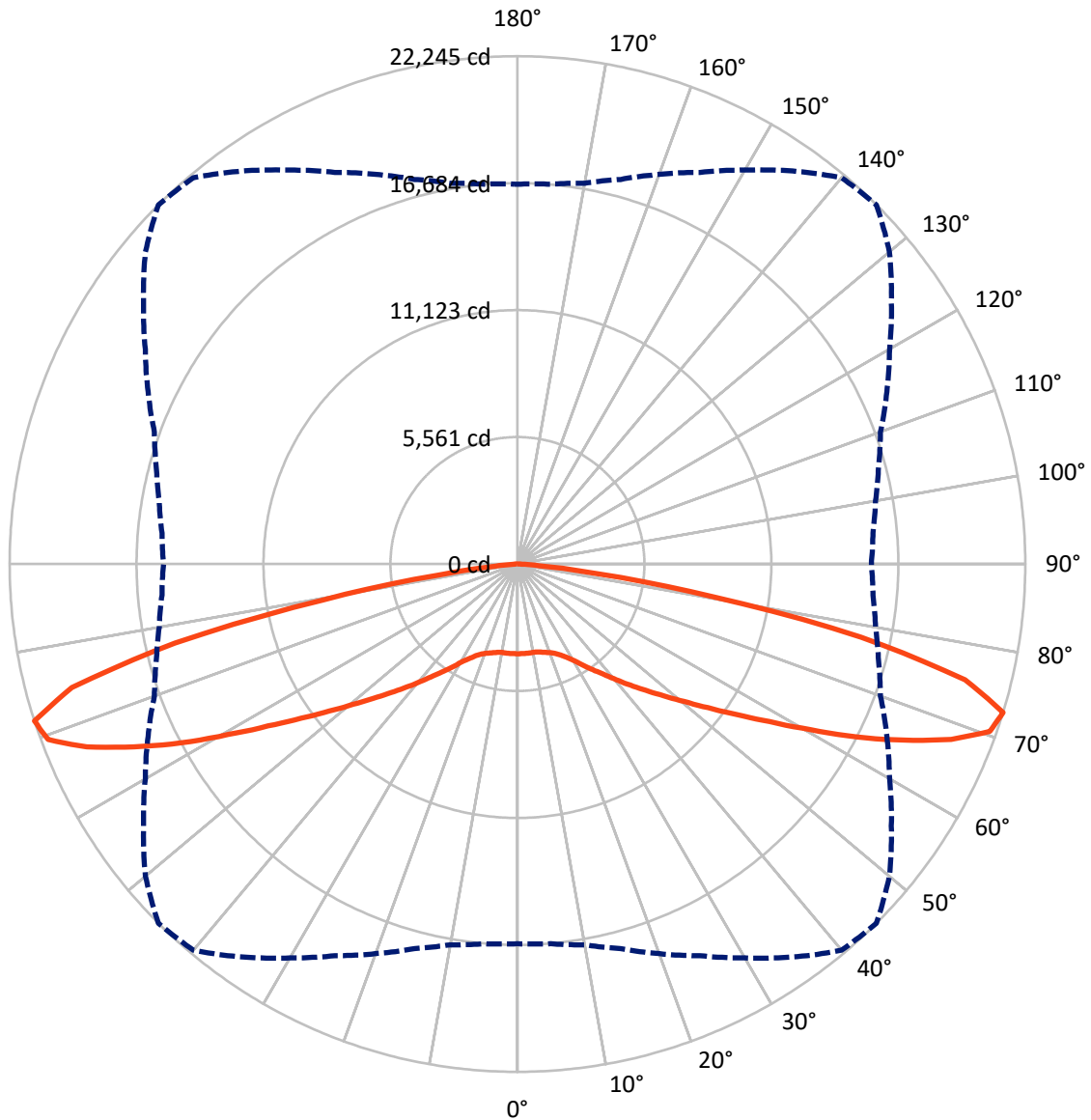


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27775.5	0.0	27775.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27775.5	0.0	27775.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55551.0	0.0	55551.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	0.7
10°-20°	1140.9	2.1
20°-30°	2084.8	3.8
30°-40°	3594.6	6.5
40°-50°	6144.9	11.1
50°-60°	9960.1	17.9
60°-70°	16523.4	29.7
70°-80°	14553.3	26.2
80°-90°	1173.4	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°	55551.0	100.0
0°-180°	55551.0	100.0



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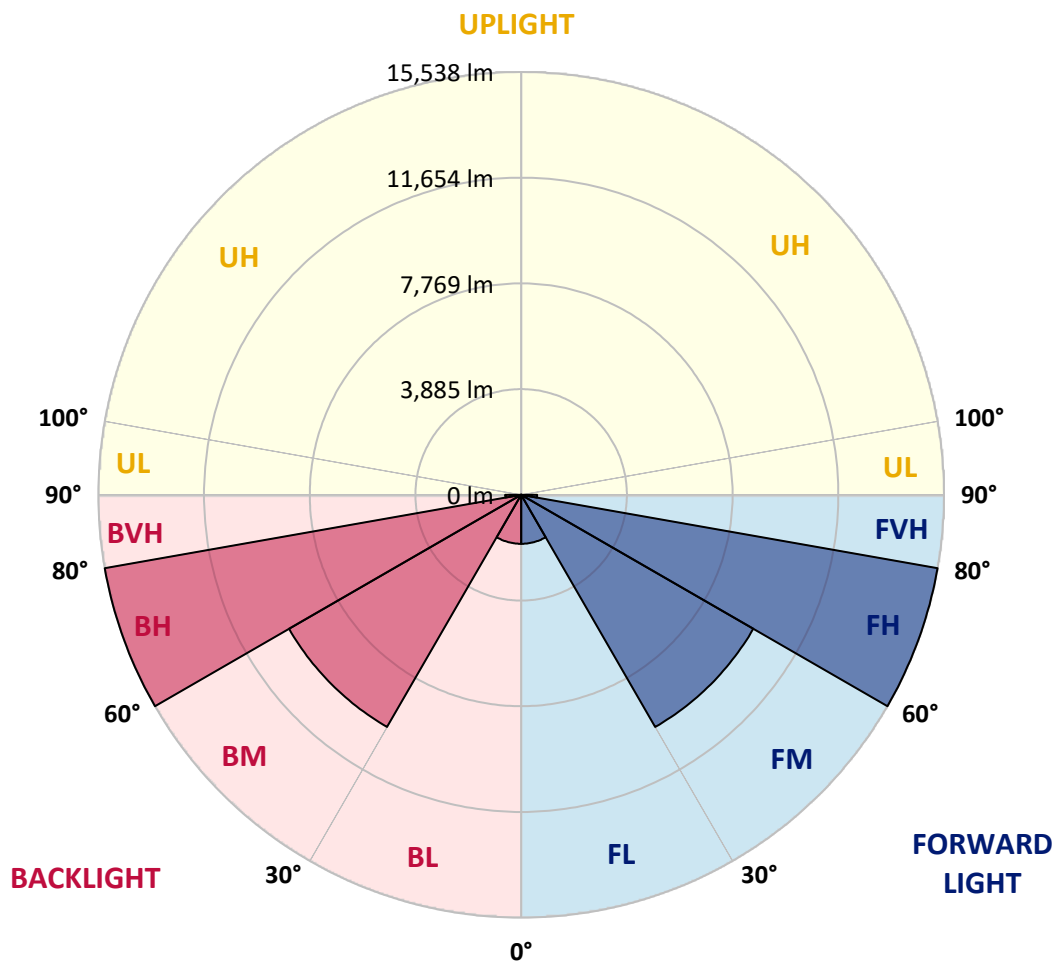
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1800.7	3.2			
FM	(30°-60°)	9849.8	17.7			
FH	(60°-80°)	15538.4	28.0			G5
FVH	(80°-90°)	586.7	1.1			G4/750
BL	(0°-30°)	1800.7	3.2	B3/2500		
BM	(30°-60°)	9849.8	17.7	B5		
BH	(60°-80°)	15538.4	28.0	B5		G5
BVH	(80°-90°)	586.7	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9
2.5°	3933.9	3936.4	3939.0	3936.4	3936.4	3933.9	3931.3	3933.9	3931.3	3926.2	3928.8
5°	3946.6	3951.7	3951.7	3946.6	3949.2	3946.6	3941.5	3944.1	3939.0	3931.3	3931.3
7.5°	3961.9	3964.4	3964.4	3959.4	3961.9	3956.8	3951.7	3949.2	3944.1	3933.9	3926.2
10°	3984.8	3987.4	3984.8	3979.7	3979.7	3972.1	3959.4	3954.3	3944.1	3928.8	3921.1
12.5°	4010.3	4012.9	4010.3	4005.2	4002.7	3989.9	3979.7	3972.1	3964.4	3951.7	3939.0
15°	4046.0	4051.1	4046.0	4035.8	4028.1	4018.0	4012.9	4015.4	4018.0	4007.8	3995.0
17.5°	4112.2	4114.8	4107.1	4084.2	4074.0	4063.8	4063.8	4068.9	4076.6	4071.5	4058.7
20°	4234.5	4226.9	4209.0	4181.0	4168.3	4150.4	4147.9	4150.4	4150.4	4147.9	4137.7
22.5°	4387.4	4382.3	4359.4	4323.7	4305.9	4295.7	4280.4	4267.6	4265.1	4257.5	4247.3
25°	4570.8	4568.3	4540.3	4509.7	4496.9	4484.2	4471.5	4453.6	4438.3	4420.5	4410.3
27.5°	4805.2	4795.0	4754.3	4739.0	4721.2	4713.5	4695.7	4675.3	4662.6	4639.6	4626.9
30°	5062.6	5062.6	5029.4	5024.4	5024.4	5006.5	4986.1	4950.5	4927.5	4904.6	4897.0
32.5°	5319.9	5322.4	5289.3	5299.5	5307.2	5319.9	5325.0	5312.3	5297.0	5294.4	5279.1
35°	5691.9	5681.7	5648.6	5656.2	5653.7	5651.1	5651.1	5679.1	5684.2	5689.3	5658.8
37.5°	6153.0	6153.0	6119.9	6119.9	6104.6	6089.4	6069.0	6086.8	6114.8	6122.5	6102.1
40°	6680.5	6698.3	6657.5	6655.0	6660.1	6611.7	6588.7	6616.8	6634.6	6665.2	6642.2
42.5°	7302.1	7289.4	7248.6	7243.5	7215.5	7200.2	7179.8	7202.8	7230.8	7251.2	7258.8
45°	7898.3	7888.1	7842.3	7842.3	7814.2	7801.5	7811.7	7849.9	7862.7	7890.7	7918.7
47.5°	8486.9	8474.1	8443.6	8456.3	8458.8	8481.8	8514.9	8550.6	8586.2	8624.5	8637.2
50°	9088.2	9090.7	9057.6	9088.2	9126.4	9190.1	9279.3	9337.9	9411.7	9460.2	9475.4
52.5°	9636.0	9646.1	9681.8	9753.2	9829.6	9954.4	10107.3	10250.0	10372.3	10453.8	10448.7
55°	10293.3	10308.6	10395.2	10517.5	10642.4	10830.9	11057.7	11309.9	11513.7	11630.9	11557.0
57.5°	11134.1	11167.2	11264.0	11429.6	11615.6	11860.2	12171.1	12550.7	12866.6	13024.6	12904.8
60°	12288.3	12308.6	12425.8	12609.3	12833.5	13136.7	13552.0	14061.6	14507.4	14716.4	14578.8
62.5°	13809.3	13847.5	13941.8	14127.8	14357.1	14701.1	15208.1	15845.1	16400.5	16690.9	16380.1
65°	15625.9	15748.2	15827.2	16015.8	16229.8	16594.1	17124.1	17806.9	18403.1	18594.2	18234.9
67.5°	17424.7	17531.7	17669.3	17885.9	18102.4	18512.6	19004.4	19666.8	20321.6	20494.9	19936.9
70°	18212.0	18273.1	18487.2	18782.7	19198.0	19682.1	20250.3	20994.2	21804.5	21947.1	21238.8
72.5°	16634.9	16696.0	16935.5	17437.5	18161.0	18930.5	19921.6	21014.6	22084.7	22245.2	21269.4
75°	12581.3	12481.9	12836.0	13501.0	14476.9	15549.5	16935.5	18502.5	20049.0	20250.3	19085.9
77.5°	6502.1	6489.4	6756.9	7582.4	8746.8	9967.2	11493.3	13264.1	14777.5	15389.0	14441.2
80°	1831.9	1852.3	1979.7	2389.9	3070.2	3951.7	5144.1	6802.7	8041.0	8672.9	8142.9
82.5°	718.5	774.5	823.0	899.4	988.6	1118.5	1493.0	2221.7	2981.0	3561.9	2917.3
85°	257.3	275.2	389.8	461.2	468.8	494.3	563.1	657.3	792.4	945.3	777.1
87.5°	96.8	107.0	124.8	206.4	203.8	186.0	226.8	236.9	178.3	163.1	201.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9
2.5°	3923.7	3926.2	3926.2	3928.8	3931.3	3931.3	3936.4	3936.4
5°	3926.2	3926.2	3921.1	3923.7	3921.1	3921.1	3923.7	3923.7
7.5°	3921.1	3918.6	3913.5	3910.9	3905.8	3905.8	3905.8	3905.8
10°	3913.5	3910.9	3905.8	3903.3	3900.8	3900.8	3900.8	3900.8
12.5°	3933.9	3926.2	3921.1	3918.6	3918.6	3918.6	3918.6	3918.6
15°	3987.4	3969.5	3956.8	3956.8	3959.4	3964.4	3964.4	3969.5
17.5°	4053.6	4033.2	4020.5	4010.3	4015.4	4023.0	4028.1	4033.2
20°	4132.6	4122.4	4104.6	4094.4	4094.4	4104.6	4109.7	4112.2
22.5°	4242.2	4234.5	4226.9	4214.1	4214.1	4219.2	4229.4	4229.4
25°	4405.2	4400.1	4395.0	4384.8	4382.3	4382.3	4387.4	4392.5
27.5°	4609.1	4611.6	4606.5	4604.0	4596.3	4593.8	4601.4	4598.9
30°	4881.7	4894.4	4907.2	4897.0	4884.2	4876.6	4868.9	4858.7
32.5°	5251.1	5235.8	5225.6	5207.8	5184.9	5164.5	5149.2	5131.4
35°	5600.2	5574.7	5564.5	5579.8	5577.2	5564.5	5546.7	5531.4
37.5°	6028.2	6023.1	6028.2	6056.2	6051.1	6063.9	6028.2	6025.7
40°	6568.3	6573.4	6609.1	6642.2	6660.1	6677.9	6657.5	6637.1
42.5°	7195.1	7192.6	7205.3	7251.2	7281.7	7302.1	7258.8	7253.7
45°	7857.6	7839.7	7849.9	7888.1	7918.7	7941.6	7893.2	7893.2
47.5°	8586.2	8555.7	8522.5	8565.9	8583.7	8599.0	8560.8	8548.0
50°	9399.0	9335.3	9264.0	9281.8	9281.8	9276.7	9228.3	9225.7
52.5°	10331.5	10214.3	10084.4	10036.0	10007.9	9977.4	9893.3	9852.5
55°	11404.2	11228.4	11024.5	10899.7	10833.4	10749.4	10609.2	10571.0
57.5°	12657.7	12382.5	12030.9	11878.1	11730.3	11592.7	11437.3	11394.0
60°	14143.1	13738.0	13271.7	12988.9	12828.4	12695.9	12535.4	12527.8
62.5°	15799.2	15159.7	14632.3	14377.5	14260.3	14143.1	13990.2	14010.6
65°	17483.3	16815.8	16321.5	16115.1	16005.6	15908.7	15755.9	15778.8
67.5°	19144.5	18530.5	17987.8	17776.3	17654.0	17531.7	17394.1	17417.1
70°	20336.9	19575.1	18963.6	18494.8	18201.8	17870.6	17656.6	17603.1
72.5°	19995.5	18820.9	17850.2	16920.2	16375.0	15931.7	15631.0	15501.1
75°	17305.0	15699.8	14451.4	13309.9	12667.9	12145.6	11766.0	11529.0
77.5°	12851.3	11047.5	9572.3	8257.6	7218.0	6519.9	6028.2	5709.7
80°	7034.6	5350.5	3910.9	2749.1	2020.4	1679.0	1482.8	1388.6
82.5°	2191.1	1414.1	1042.1	899.4	835.7	800.0	741.4	647.2
85°	698.1	611.5	568.2	542.7	517.2	451.0	310.8	282.8
87.5°	270.1	277.7	275.2	259.9	265.0	191.1	152.9	135.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)