

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: P190888

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190888
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51289.7 lumens
Efficiency: N/A
Efficacy: 122.4 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

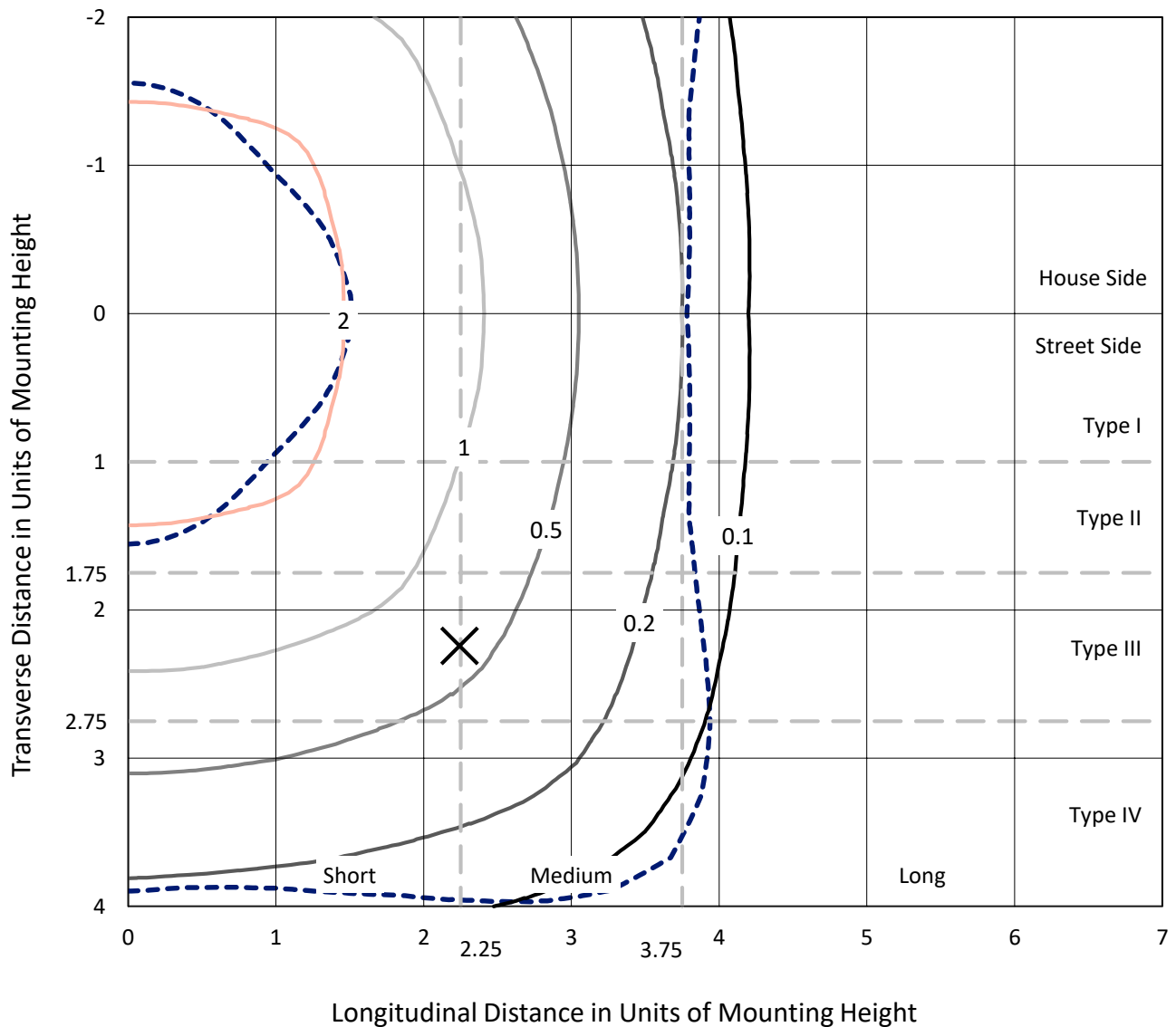
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

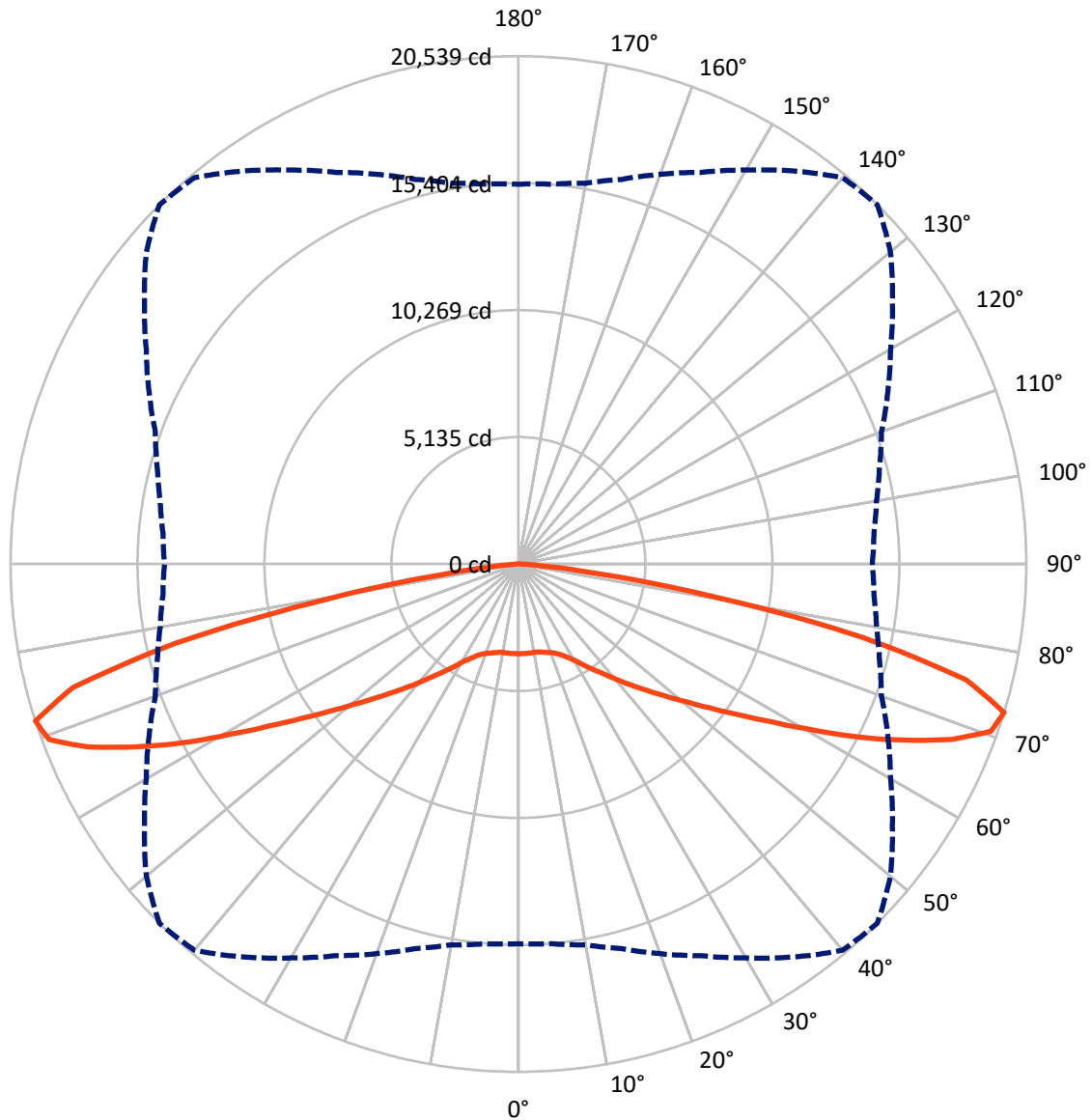
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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	25644.9	0.0	25644.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25644.9	0.0	25644.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	51289.7	0.0	51289.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	0.7
10°-20°	1053.3	2.1
20°-30°	1924.9	3.8
30°-40°	3318.9	6.5
40°-50°	5673.5	11.1
50°-60°	9196.1	17.9
60°-70°	15255.9	29.7
70°-80°	13436.9	26.2
80°-90°	1083.4	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°	51289.7	100.0
0°-180°	51289.7	100.0



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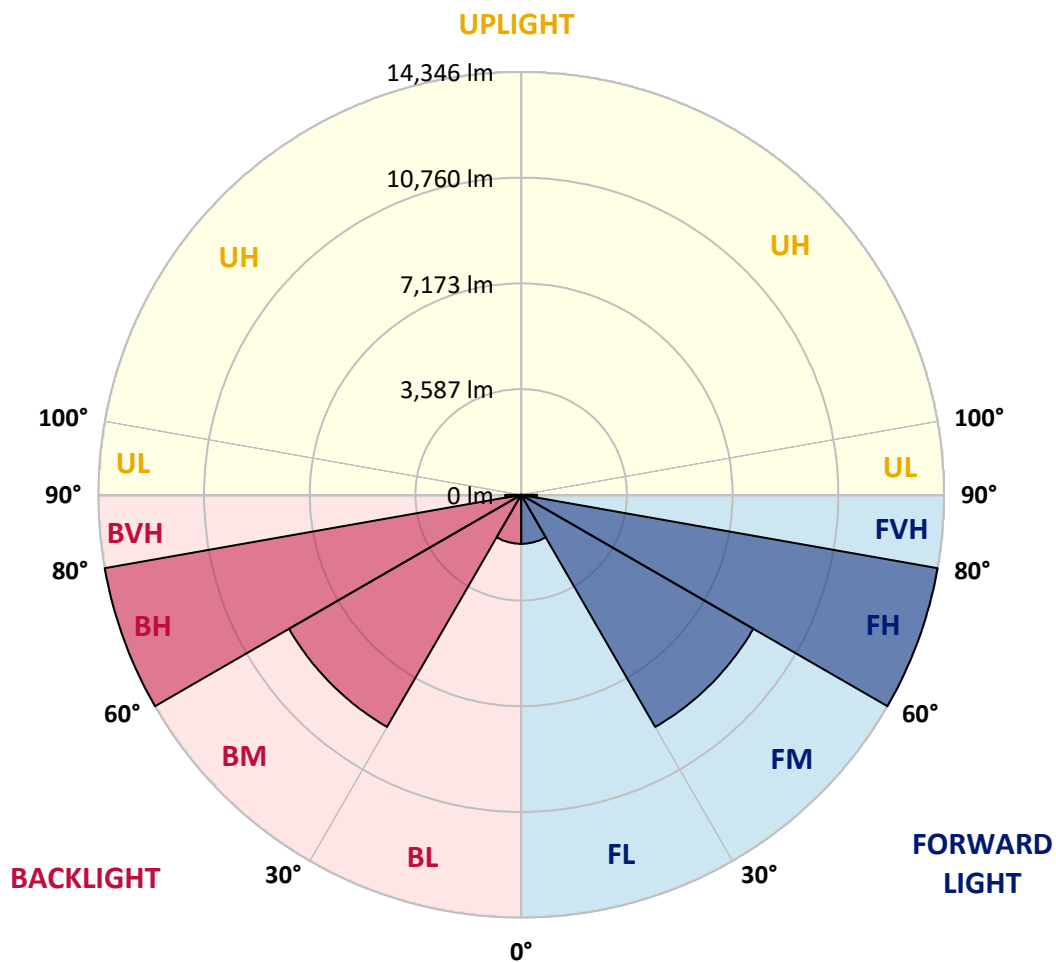
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1662.5	3.2			
FM	(30°-60°)	9094.2	17.7			
FH	(60°-80°)	14346.4	28.0			G5
FVH	(80°-90°)	541.7	1.1			G4/750
BL	(0°-30°)	1662.5	3.2	B3/2500		
BM	(30°-60°)	9094.2	17.7	B5		
BH	(60°-80°)	14346.4	28.0	B5		G5
BVH	(80°-90°)	541.7	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°	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1
2.5°	3632.1	3634.4	3636.8	3634.4	3634.4	3632.1	3629.7	3632.1	3629.7	3625.0	3627.4
5°	3643.9	3648.6	3648.6	3643.9	3646.2	3643.9	3639.1	3641.5	3636.8	3629.7	3629.7
7.5°	3658.0	3660.3	3660.3	3655.6	3658.0	3653.3	3648.6	3646.2	3641.5	3632.1	3625.0
10°	3679.1	3681.5	3679.1	3674.4	3674.4	3667.4	3655.6	3650.9	3641.5	3627.4	3620.3
12.5°	3702.7	3705.0	3702.7	3698.0	3695.6	3683.9	3674.4	3667.4	3660.3	3648.6	3636.8
15°	3735.6	3740.3	3735.6	3726.2	3719.1	3709.7	3705.0	3707.4	3709.7	3700.3	3688.6
17.5°	3796.8	3799.1	3792.1	3770.9	3761.5	3752.1	3752.1	3756.8	3763.8	3759.1	3747.4
20°	3909.7	3902.7	3886.2	3860.3	3848.5	3832.1	3829.7	3832.1	3832.1	3829.7	3820.3
22.5°	4050.9	4046.2	4025.0	3992.1	3975.6	3966.2	3952.1	3940.3	3938.0	3930.9	3921.5
25°	4220.2	4217.8	4192.0	4163.7	4152.0	4140.2	4128.4	4112.0	4097.8	4081.4	4072.0
27.5°	4436.6	4427.2	4389.6	4375.5	4359.0	4351.9	4335.5	4316.6	4304.9	4283.7	4271.9
30°	4674.3	4674.3	4643.7	4639.0	4639.0	4622.5	4603.7	4570.7	4549.6	4528.4	4521.3
32.5°	4911.8	4914.2	4883.6	4893.0	4900.0	4911.8	4916.5	4904.7	4890.6	4888.3	4874.2
35°	5255.3	5245.9	5215.3	5222.4	5220.0	5217.7	5217.7	5243.5	5248.2	5253.0	5224.7
37.5°	5681.1	5681.1	5650.5	5650.5	5636.4	5622.2	5603.4	5619.9	5645.8	5652.8	5634.0
40°	6168.0	6184.5	6146.8	6144.5	6149.2	6104.5	6083.3	6109.2	6125.6	6153.9	6132.7
42.5°	6742.0	6730.2	6692.6	6687.8	6662.0	6647.9	6629.0	6650.2	6676.1	6694.9	6702.0
45°	7292.4	7283.0	7240.7	7240.7	7214.8	7203.0	7212.4	7247.7	7259.5	7285.4	7311.2
47.5°	7835.8	7824.1	7795.9	7807.7	7810.0	7831.1	7861.7	7894.6	7927.6	7962.9	7974.6
50°	8391.1	8393.4	8362.8	8391.1	8426.4	8485.1	8567.4	8621.5	8689.8	8734.5	8748.6
52.5°	8896.8	8906.2	8939.2	9005.0	9075.6	9190.8	9332.0	9463.7	9576.7	9652.0	9647.2
55°	9503.7	9517.8	9597.8	9710.7	9826.0	10000.1	10209.5	10442.3	10630.5	10738.7	10670.5
57.5°	10280.0	10310.6	10399.9	10552.9	10724.6	10950.5	11237.4	11587.9	11879.6	12025.5	11914.9
60°	11345.6	11364.5	11472.7	11642.0	11849.0	12129.0	12512.4	12982.9	13394.6	13587.4	13460.5
62.5°	12750.1	12785.4	12872.3	13044.1	13255.8	13573.3	14041.5	14629.6	15142.4	15410.5	15123.6
65°	14427.3	14540.2	14613.2	14787.2	14984.8	15321.2	15810.5	16441.0	16991.4	17167.9	16836.1
67.5°	16088.0	16186.9	16313.9	16513.9	16713.8	17092.6	17546.6	18158.2	18762.8	18922.7	18407.6
70°	16815.0	16871.4	17069.1	17341.9	17725.4	18172.3	18696.9	19383.8	20131.9	20263.6	19609.7
72.5°	15358.8	15415.3	15636.4	16099.8	16767.9	17478.3	18393.5	19402.6	20390.6	20538.8	19637.9
75°	11616.1	11524.5	11851.4	12465.4	13366.4	14356.7	15636.4	17083.2	18511.0	18696.9	17621.9
77.5°	6003.3	5991.5	6238.6	7000.8	8075.8	9202.6	10611.7	12246.6	13643.9	14208.5	13333.4
80°	1691.3	1710.2	1827.8	2206.5	2834.6	3648.6	4749.5	6280.9	7424.2	8007.6	7518.3
82.5°	663.4	715.1	759.8	830.4	912.8	1032.7	1378.5	2051.3	2752.4	3288.7	2693.5
85°	237.6	254.1	359.9	425.8	432.8	456.3	519.9	606.9	731.6	872.8	717.5
87.5°	89.4	98.8	115.3	190.6	188.2	171.8	209.4	218.8	164.7	150.6	185.9
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°	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1	3632.1
2.5°	3622.7	3625.0	3625.0	3627.4	3629.7	3629.7	3634.4	3634.4
5°	3625.0	3625.0	3620.3	3622.7	3620.3	3620.3	3622.7	3622.7
7.5°	3620.3	3618.0	3613.3	3610.9	3606.2	3606.2	3606.2	3606.2
10°	3613.3	3610.9	3606.2	3603.9	3601.5	3601.5	3601.5	3601.5
12.5°	3632.1	3625.0	3620.3	3618.0	3618.0	3618.0	3618.0	3618.0
15°	3681.5	3665.0	3653.3	3653.3	3655.6	3660.3	3660.3	3665.0
17.5°	3742.7	3723.8	3712.1	3702.7	3707.4	3714.4	3719.1	3723.8
20°	3815.6	3806.2	3789.7	3780.3	3780.3	3789.7	3794.4	3796.8
22.5°	3916.8	3909.7	3902.7	3890.9	3890.9	3895.6	3905.0	3905.0
25°	4067.4	4062.6	4057.9	4048.5	4046.2	4046.2	4050.9	4055.6
27.5°	4255.5	4257.8	4253.1	4250.8	4243.7	4241.4	4248.4	4246.1
30°	4507.2	4519.0	4530.8	4521.3	4509.6	4502.5	4495.5	4486.0
32.5°	4848.3	4834.2	4824.7	4808.3	4787.1	4768.3	4754.2	4737.7
35°	5170.6	5147.1	5137.7	5151.8	5149.4	5137.7	5121.2	5107.1
37.5°	5565.8	5561.1	5565.8	5591.7	5586.9	5598.7	5565.8	5563.4
40°	6064.5	6069.2	6102.1	6132.7	6149.2	6165.6	6146.8	6128.0
42.5°	6643.1	6640.8	6652.6	6694.9	6723.1	6742.0	6702.0	6697.3
45°	7254.8	7238.3	7247.7	7283.0	7311.2	7332.4	7287.7	7287.7
47.5°	7927.6	7899.3	7868.7	7908.7	7925.2	7939.3	7904.0	7892.3
50°	8678.0	8619.2	8553.3	8569.8	8569.8	8565.1	8520.4	8518.0
52.5°	9539.0	9430.8	9310.8	9266.1	9240.2	9212.0	9134.3	9096.7
55°	10529.3	10367.0	10178.9	10063.6	10002.4	9924.8	9795.4	9760.1
57.5°	11686.7	11432.7	11108.0	10966.9	10830.5	10703.4	10559.9	10519.9
60°	13058.2	12684.2	12253.6	11992.6	11844.3	11722.0	11573.9	11566.8
62.5°	14587.3	13996.8	13509.8	13274.6	13166.4	13058.2	12917.0	12935.8
65°	16142.2	15525.8	15069.5	14878.9	14777.8	14688.4	14547.3	14568.5
67.5°	17676.0	17109.1	16607.9	16412.7	16299.8	16186.9	16059.8	16081.0
70°	18776.9	18073.5	17508.9	17076.1	16805.5	16499.8	16302.2	16252.7
72.5°	18461.7	17377.2	16481.0	15622.3	15118.9	14709.6	14432.0	14312.0
75°	15977.5	14495.5	13342.9	12288.9	11696.1	11213.9	10863.4	10644.6
77.5°	11865.5	10200.0	8838.0	7624.2	6664.3	6019.8	5565.8	5271.8
80°	6495.0	4940.0	3610.9	2538.2	1865.5	1550.3	1369.1	1282.1
82.5°	2023.1	1305.6	962.1	830.4	771.6	738.7	684.6	597.5
85°	644.6	564.6	524.6	501.0	477.5	416.3	287.0	261.2
87.5°	249.4	256.5	254.1	240.0	244.7	176.5	141.2	124.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)