

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: P268883

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43445.2 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

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

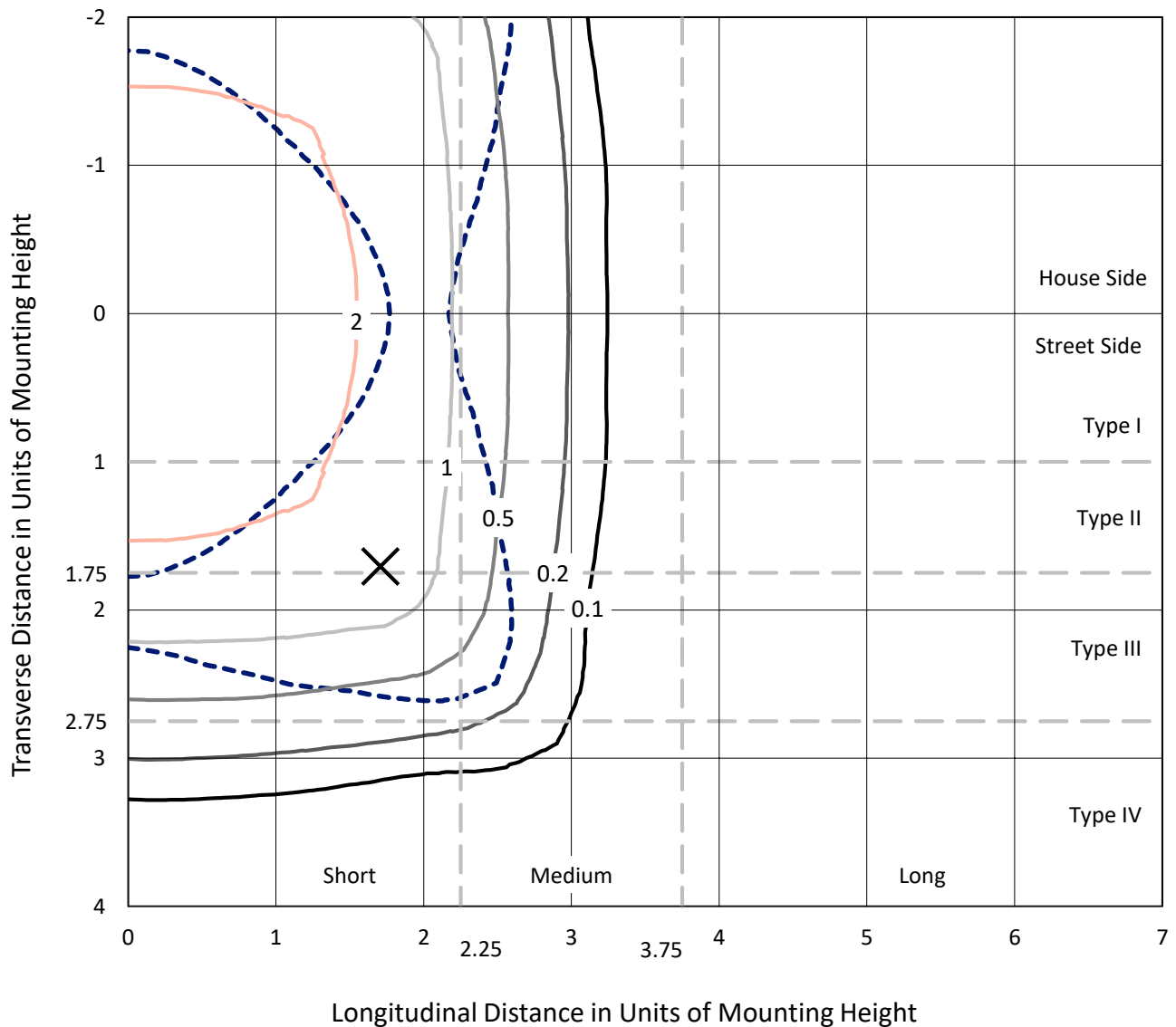


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

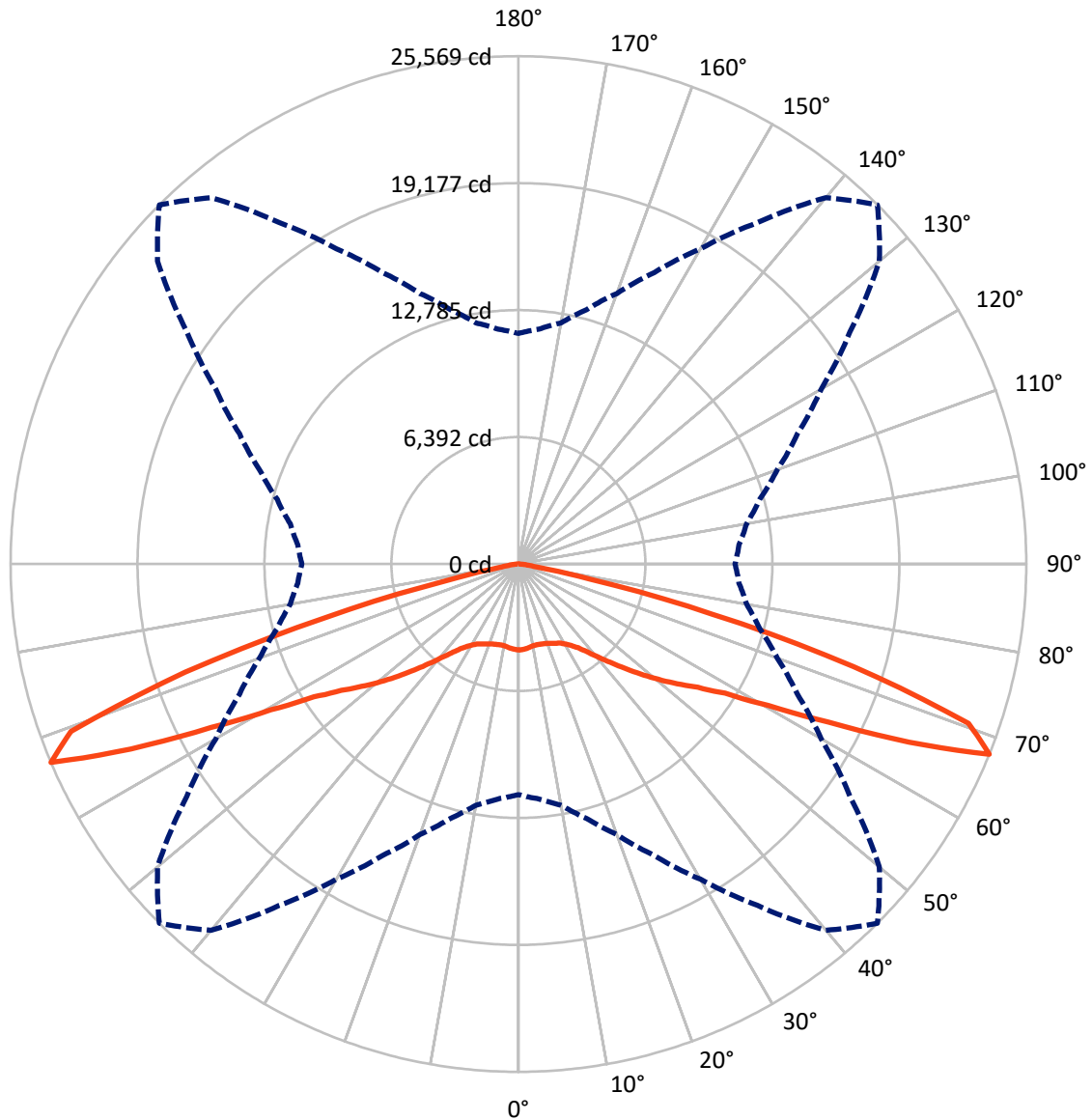


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21722.6	0.0	21722.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21722.6	0.0	21722.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	43445.2	0.0	43445.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.2	0.9
10°-20°	1175.9	2.7
20°-30°	1999.0	4.6
30°-40°	3267.7	7.5
40°-50°	5833.4	13.4
50°-60°	9835.3	22.6
60°-70°	15263.0	35.1
70°-80°	5362.7	12.3
80°-90°	303.1	0.7
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°	43445.2	100.0
0°-180°	43445.2	100.0



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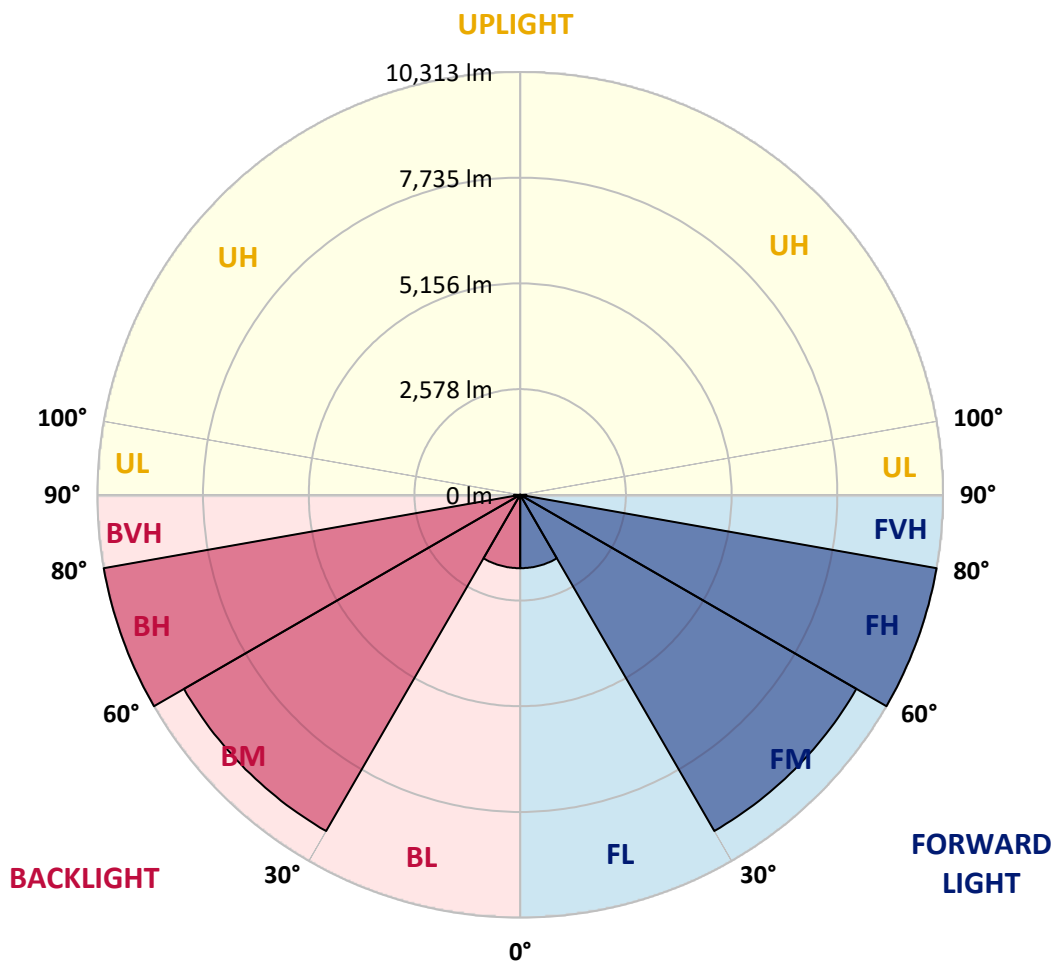
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1790.0	4.1			
FM	(30°-60°)	9468.2	21.8			
FH	(60°-80°)	10312.8	23.7			G4/12000
FVH	(80°-90°)	151.5	0.3			G2/225
BL	(0°-30°)	1790.0	4.1	B3/2500		
BM	(30°-60°)	9468.2	21.8	B5		
BH	(60°-80°)	10312.8	23.7	B5		G4/12000
BVH	(80°-90°)	151.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6
2.5°	4313.5	4317.6	4317.6	4317.6	4315.5	4315.5	4311.5	4315.5	4313.5	4307.6	4309.4
5°	4277.5	4281.5	4281.5	4279.5	4285.5	4283.6	4277.5	4281.5	4279.5	4275.6	4277.5
7.5°	4225.5	4231.6	4231.6	4229.6	4235.6	4233.6	4229.6	4231.6	4231.6	4225.5	4225.5
10°	4167.6	4171.6	4171.6	4169.7	4179.6	4179.6	4177.7	4183.6	4185.7	4179.6	4175.7
12.5°	4113.7	4119.7	4119.7	4127.7	4137.8	4141.6	4151.6	4159.7	4167.6	4165.7	4157.6
15°	4081.8	4085.8	4093.8	4103.7	4119.7	4133.7	4149.7	4167.6	4183.6	4187.7	4175.7
17.5°	4061.7	4067.7	4079.7	4093.8	4115.8	4139.7	4163.6	4187.7	4209.6	4217.6	4203.6
20°	4055.8	4059.8	4071.7	4095.7	4125.7	4161.7	4195.7	4223.7	4253.6	4263.5	4253.6
22.5°	4067.7	4075.8	4089.8	4117.7	4157.6	4203.6	4243.7	4281.5	4319.5	4337.5	4323.5
25°	4121.8	4129.7	4147.7	4183.6	4227.7	4275.6	4321.6	4365.5	4399.4	4417.4	4407.4
27.5°	4221.7	4231.6	4253.6	4289.5	4337.5	4389.5	4439.5	4475.4	4503.4	4509.3	4497.4
30°	4371.4	4393.4	4419.4	4459.4	4515.3	4559.3	4609.3	4641.3	4675.1	4675.1	4665.2
32.5°	4605.3	4627.2	4655.1	4693.1	4737.1	4785.0	4829.0	4857.0	4892.9	4895.0	4870.9
35°	4954.8	4964.8	4988.7	5012.8	5052.7	5094.6	5132.6	5150.6	5180.6	5182.6	5160.7
37.5°	5416.4	5418.3	5434.3	5442.3	5478.4	5524.2	5560.1	5572.2	5600.2	5596.3	5574.3
40°	5953.8	5963.8	5969.7	5981.9	6019.7	6063.6	6101.6	6107.7	6137.6	6131.7	6103.7
42.5°	6575.1	6579.1	6613.1	6631.1	6667.1	6689.0	6737.0	6742.9	6779.0	6763.0	6731.0
45°	7272.5	7308.4	7340.4	7376.3	7414.3	7440.3	7478.2	7470.2	7494.2	7470.2	7452.2
47.5°	8005.6	8031.7	8103.6	8159.6	8221.5	8243.4	8297.4	8273.4	8297.4	8263.4	8257.4
50°	8812.8	8858.8	8920.8	8984.7	9050.7	9086.5	9156.6	9126.5	9158.5	9126.5	9108.5
52.5°	9608.0	9619.9	9755.9	9849.7	9941.7	9983.7	10025.7	10011.6	10013.5	10011.6	9993.6
55°	10363.2	10391.2	10527.1	10654.9	10814.8	10932.6	11004.5	10996.6	10978.5	10960.6	10930.7
57.5°	11214.4	11242.3	11398.1	11555.9	11737.9	11905.6	12051.5	12201.3	12259.3	12275.2	12209.4
60°	12365.2	12363.2	12570.9	12762.8	13022.5	13272.2	13591.9	13917.5	14291.1	14465.0	14235.3
62.5°	13535.9	13583.9	13883.6	14223.3	14758.7	15280.1	15869.5	16449.0	17040.3	17521.8	17010.3
65°	13396.1	13579.9	14025.4	14794.6	15783.6	16958.5	18229.0	19573.7	20788.4	21623.6	20686.4
67.5°	11610.0	11871.7	12325.3	13260.2	14496.9	16191.2	18325.0	20984.1	24075.0	25569.4	23717.4
70°	8415.2	8711.0	9186.4	10099.6	11324.3	12934.5	15252.1	18444.9	22536.6	24043.0	22003.2
72.5°	4187.7	4347.4	4641.3	5222.6	6149.5	7456.2	9558.1	12626.8	16247.1	17629.6	15765.7
75°	1422.6	1496.4	1546.4	1736.2	2029.9	2543.3	3588.3	5520.3	8421.3	10095.5	8301.3
77.5°	821.1	823.1	857.2	891.1	941.1	996.9	1136.8	1492.4	2581.3	3666.3	2671.2
80°	531.4	529.5	557.4	583.4	617.3	645.3	653.2	691.2	797.2	944.9	845.1
82.5°	275.7	309.6	371.5	405.6	469.5	481.5	465.5	451.6	477.4	495.4	507.5
85°	151.9	132.0	197.7	255.7	283.8	287.6	287.6	271.6	281.7	275.7	299.7
87.5°	69.9	63.9	78.0	125.9	133.8	113.8	119.8	105.9	75.9	73.9	83.9
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°	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6
2.5°	4309.4	4311.5	4311.5	4317.6	4319.5	4323.5	4327.6	4329.6
5°	4275.6	4281.5	4277.5	4283.6	4283.6	4287.5	4287.5	4289.5
7.5°	4225.5	4231.6	4231.6	4231.6	4229.6	4235.6	4235.6	4235.6
10°	4173.6	4177.7	4175.7	4171.6	4167.6	4173.6	4171.6	4169.7
12.5°	4157.6	4147.7	4139.7	4135.6	4127.7	4129.7	4123.7	4123.7
15°	4167.6	4149.7	4135.6	4129.7	4121.8	4117.7	4113.7	4115.8
17.5°	4193.6	4171.6	4153.8	4143.7	4133.7	4127.7	4119.7	4121.8
20°	4239.6	4213.6	4187.7	4167.6	4149.7	4139.7	4133.7	4131.8
22.5°	4307.6	4269.6	4231.6	4201.6	4177.7	4163.6	4157.6	4153.8
25°	4385.4	4343.5	4299.6	4265.6	4241.5	4223.7	4211.7	4211.7
27.5°	4483.4	4449.3	4409.4	4369.4	4347.4	4329.6	4321.6	4317.6
30°	4647.2	4615.2	4583.2	4545.2	4517.2	4499.3	4485.3	4473.4
32.5°	4857.0	4830.9	4805.0	4777.0	4751.0	4727.2	4705.1	4695.1
35°	5152.7	5132.6	5114.7	5082.7	5072.6	5058.7	5046.8	5036.7
37.5°	5560.1	5552.2	5552.2	5518.3	5510.3	5504.3	5492.2	5494.4
40°	6095.7	6103.7	6093.7	6081.6	6075.6	6059.6	6059.6	6073.7
42.5°	6729.1	6735.0	6757.1	6737.0	6758.9	6739.1	6727.0	6737.0
45°	7464.2	7486.3	7530.2	7510.2	7524.3	7490.2	7448.2	7450.3
47.5°	8289.4	8309.4	8327.4	8313.4	8315.4	8259.5	8203.5	8189.5
50°	9146.5	9154.4	9164.5	9144.4	9148.5	9086.5	9022.7	9024.6
52.5°	9993.6	10031.6	10071.5	10017.5	10005.6	9935.8	9845.8	9809.9
55°	10962.6	11016.5	10970.6	10876.7	10782.9	10688.9	10571.1	10551.0
57.5°	12157.4	12065.5	11921.6	11743.8	11613.9	11482.0	11362.2	11312.3
60°	13819.6	13473.9	13214.2	12950.5	12784.7	12623.0	12465.1	12441.0
62.5°	16169.2	15571.8	15054.3	14509.0	14063.3	13715.7	13438.0	13360.1
65°	19114.1	17701.6	16476.9	15334.1	14341.1	13591.9	13120.4	12912.5
67.5°	20380.8	17591.8	15491.9	13869.7	12570.9	11664.0	11154.4	10900.8
70°	17909.4	14588.8	12305.3	10680.8	9498.0	8531.2	8069.7	7797.8
72.5°	12321.2	9280.4	7338.3	5989.8	5044.7	4235.6	3915.9	3891.9
75°	5532.2	3664.1	2525.3	1946.0	1638.2	1424.5	1358.5	1308.7
77.5°	1548.4	1144.8	1021.0	955.0	891.1	817.2	789.3	795.2
80°	753.1	711.3	683.3	641.3	583.4	521.5	493.4	505.4
82.5°	499.5	493.4	511.5	481.5	397.6	337.7	283.8	259.7
85°	303.6	307.7	313.7	315.7	267.8	187.7	127.9	143.9
87.5°	119.8	137.9	149.8	155.9	145.9	89.9	72.0	73.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)