

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: P190845

Luminaire Tested: **GAN-AF-07-LED-U-5NQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-5NQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35893.3 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

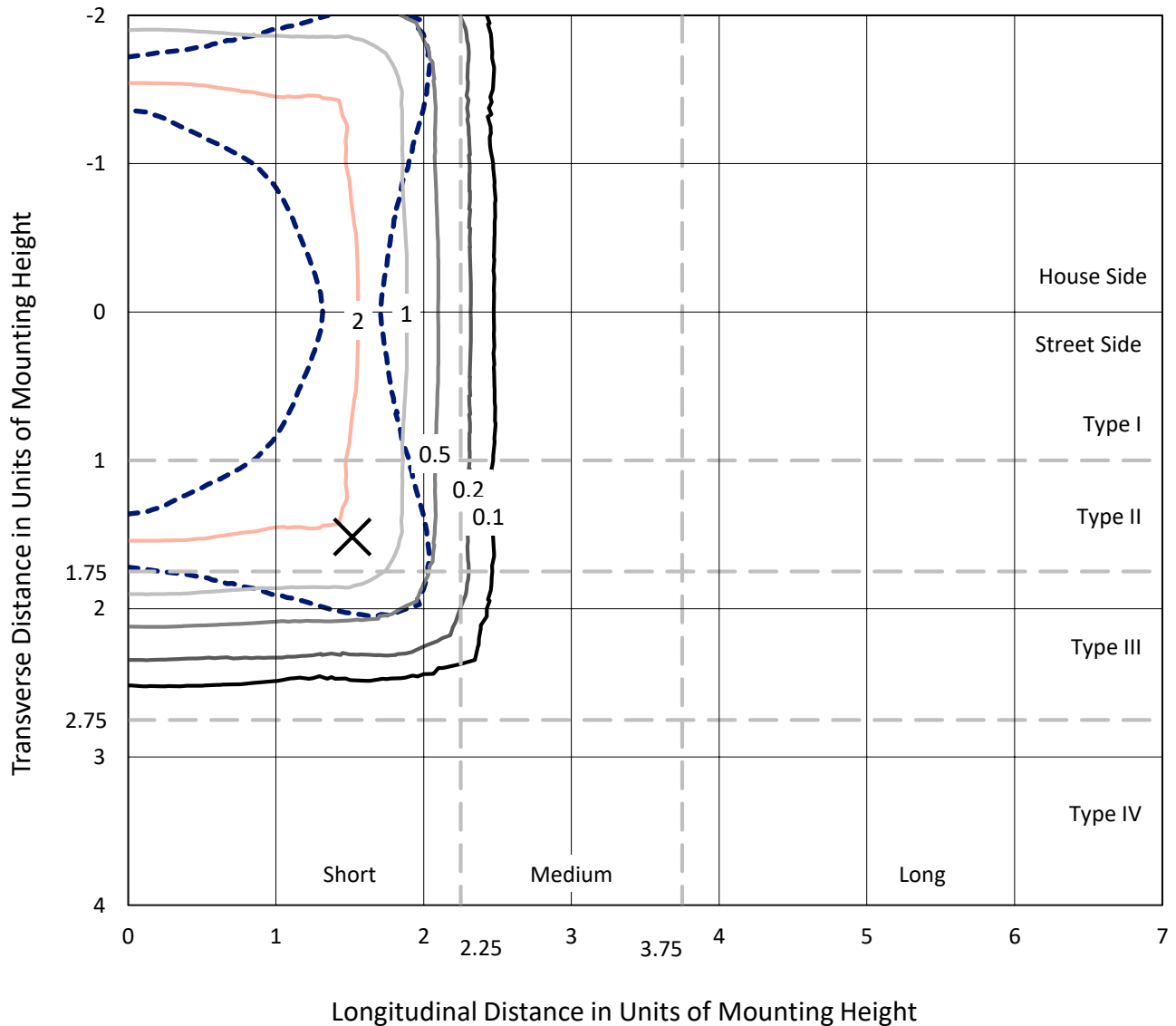
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

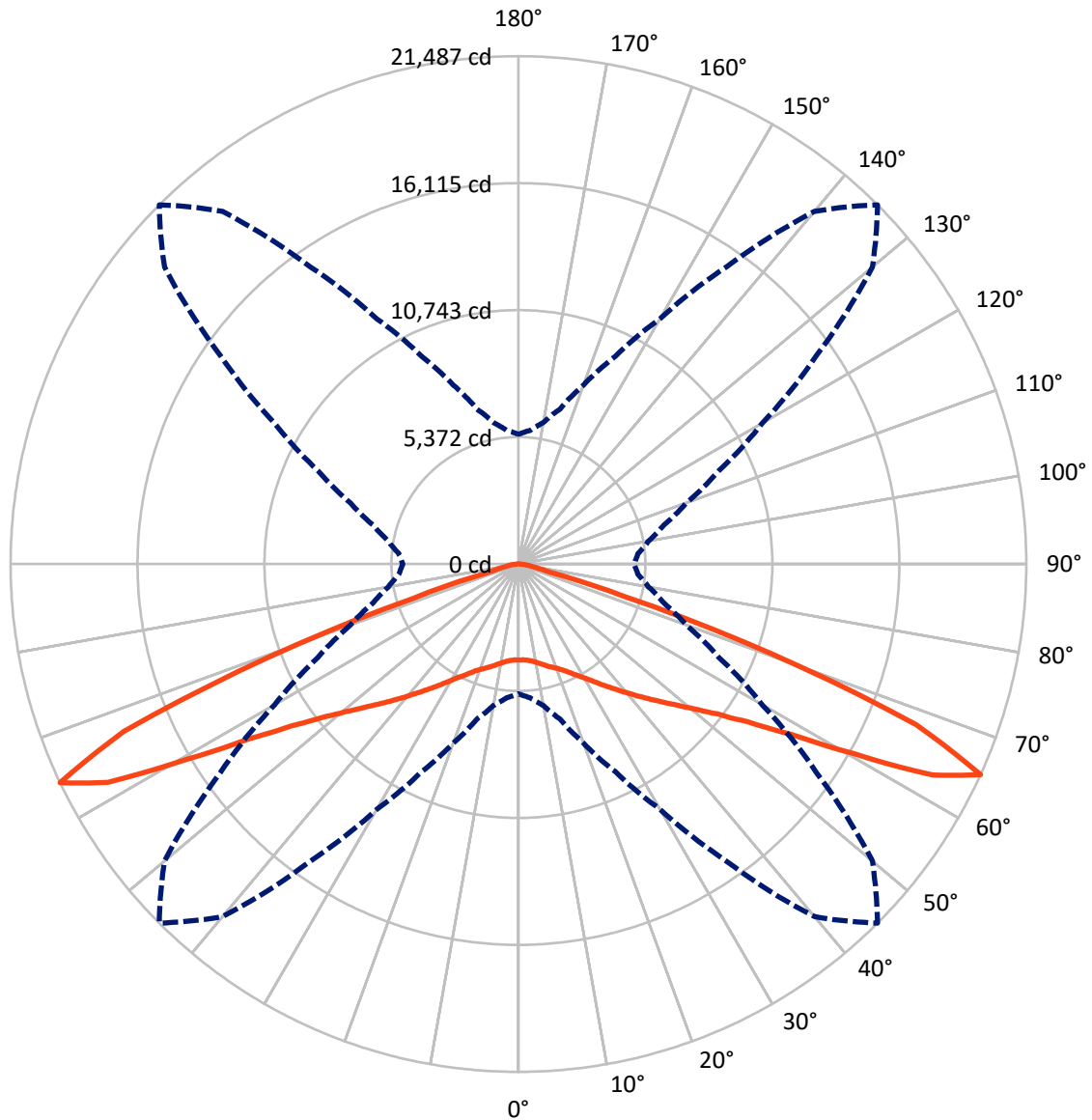
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17946.6	0.0	17946.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17946.6	0.0	17946.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	35893.3	0.0	35893.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.9	1.1
10°-20°	1269.6	3.5
20°-30°	2373.8	6.6
30°-40°	4014.8	11.2
40°-50°	6564.7	18.3
50°-60°	10438.9	29.1
60°-70°	9436.0	26.3
70°-80°	1194.2	3.3
80°-90°	205.4	0.6
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°	35893.3	100.0
0°-180°	35893.3	100.0



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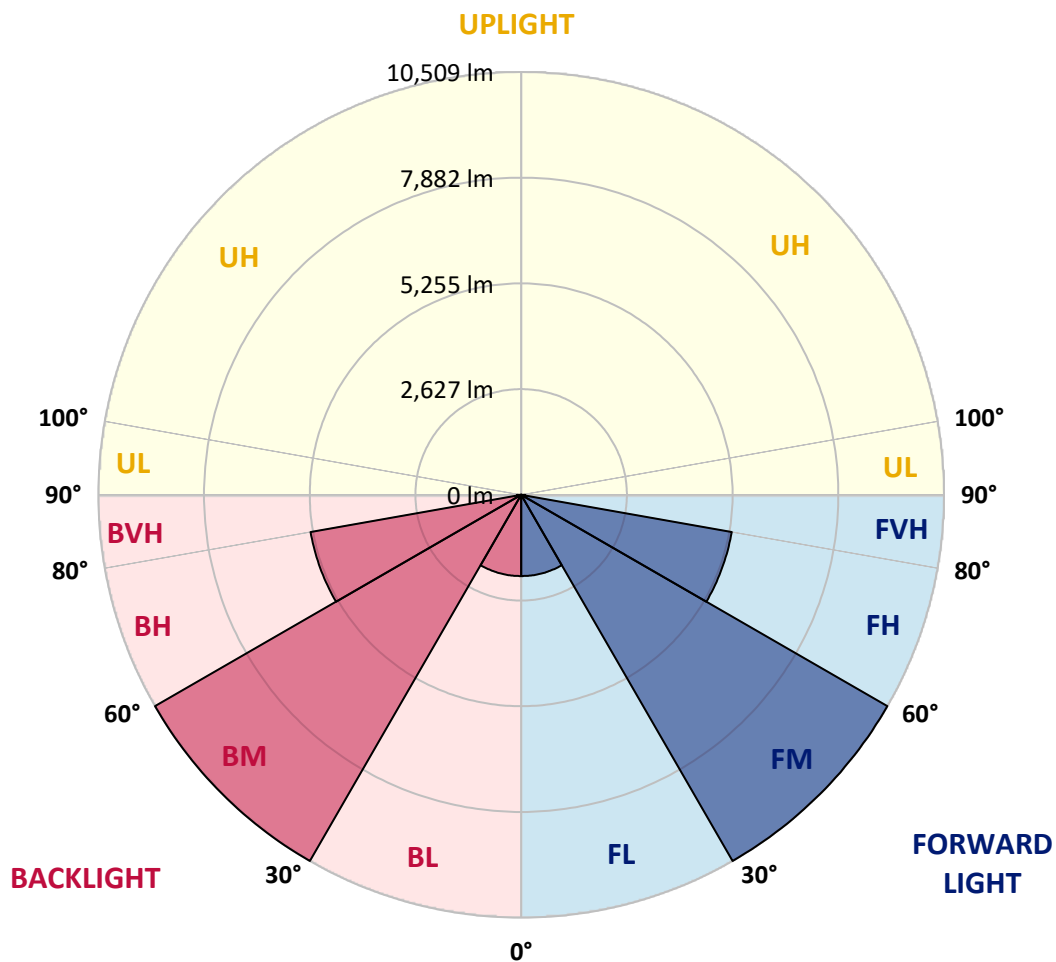
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2019.6	5.6			
FM	(30°-60°)	10509.2	29.3			
FH	(60°-80°)	5315.1	14.8			G3/7500
FVH	(80°-90°)	102.7	0.3			G2/225
BL	(0°-30°)	2019.6	5.6	B3/2500		
BM	(30°-60°)	10509.2	29.3	B5		
BH	(60°-80°)	5315.1	14.8	B5		G3/7500
BVH	(80°-90°)	102.7	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3
2.5°	4064.7	4068.1	4071.4	4068.1	4071.4	4066.4	4063.1	4068.1	4063.1	4057.9	4061.3
5°	4100.0	4101.7	4101.7	4096.6	4101.7	4098.4	4093.2	4100.0	4095.0	4090.0	4093.2
7.5°	4158.8	4165.6	4160.5	4155.5	4158.8	4155.5	4152.2	4153.8	4152.2	4147.0	4148.8
10°	4237.9	4242.9	4239.5	4237.9	4241.3	4239.5	4236.1	4234.5	4236.1	4231.1	4231.1
12.5°	4333.6	4332.0	4330.4	4332.0	4337.0	4337.0	4335.4	4337.0	4340.4	4342.1	4338.7
15°	4427.8	4431.2	4431.2	4431.2	4441.2	4449.6	4454.7	4458.0	4464.8	4466.5	4459.8
17.5°	4545.5	4545.5	4543.8	4545.5	4555.6	4569.0	4574.0	4580.8	4587.5	4592.5	4584.1
20°	4676.6	4680.0	4680.0	4683.3	4696.8	4711.9	4711.9	4715.3	4711.9	4715.3	4710.2
22.5°	4836.3	4846.3	4846.3	4848.1	4861.5	4880.0	4875.0	4880.0	4871.6	4878.4	4871.6
25°	5044.8	5059.8	5056.5	5056.5	5066.6	5078.3	5080.1	5090.1	5088.5	5096.9	5091.8
27.5°	5280.1	5303.6	5310.3	5308.7	5315.4	5327.1	5330.5	5342.3	5335.6	5342.3	5338.9
30°	5562.5	5572.6	5586.0	5591.0	5599.5	5611.3	5611.3	5612.9	5604.5	5614.6	5619.7
32.5°	5855.0	5873.5	5887.0	5917.2	5932.3	5940.7	5939.0	5942.4	5934.0	5947.4	5957.6
35°	6241.6	6255.0	6276.9	6300.5	6320.6	6319.0	6314.0	6315.6	6315.6	6327.4	6337.5
37.5°	6707.3	6710.7	6739.2	6772.9	6782.9	6772.9	6742.6	6735.8	6720.7	6735.8	6752.7
40°	7199.8	7211.6	7268.8	7290.6	7295.6	7277.2	7233.4	7208.2	7174.6	7193.1	7216.6
42.5°	7715.9	7739.4	7791.5	7830.2	7847.0	7835.2	7774.7	7736.1	7692.4	7702.4	7725.9
45°	8287.4	8316.0	8389.9	8427.0	8458.9	8440.4	8381.5	8322.7	8253.8	8258.9	8295.8
47.5°	8926.3	8954.8	9050.7	9112.9	9129.6	9126.3	9060.7	8980.0	8885.9	8882.5	8914.4
50°	9642.3	9670.9	9790.3	9886.1	9934.8	9929.8	9852.4	9738.2	9623.8	9625.6	9665.9
52.5°	10341.6	10376.9	10501.3	10666.1	10761.9	10830.8	10783.7	10676.1	10536.6	10540.0	10577.0
55°	10997.2	11056.1	11199.0	11422.6	11600.8	11794.0	11849.6	11846.2	11762.1	11785.6	11822.7
57.5°	11315.0	11402.3	11622.6	11975.6	12338.7	12732.1	13064.9	13313.7	13419.6	13579.3	13542.3
60°	10713.2	10852.7	11177.1	11696.5	12414.3	13234.6	14113.9	14972.8	15705.8	16258.9	15941.2
62.5°	8771.6	8953.1	9346.5	10012.1	11098.1	12411.0	14093.7	16124.4	18336.6	19671.3	18718.2
65°	5488.5	5676.8	6076.8	6789.6	8060.4	9692.8	11975.6	15341.0	19474.6	21486.8	19547.0
67.5°	2139.9	2242.5	2459.4	2914.9	3869.7	5322.1	7613.3	11432.6	16376.5	18139.9	16072.2
70°	1072.5	1082.6	1122.9	1207.0	1412.1	1833.9	2790.5	5300.2	9391.8	11343.5	9053.9
72.5°	775.0	776.6	796.8	833.8	899.4	993.5	1175.1	1622.2	3054.4	4668.2	2862.7
75°	593.4	600.2	611.9	632.1	667.4	714.4	780.0	934.7	1158.2	1343.1	1129.6
77.5°	457.3	470.7	479.0	497.6	519.5	551.4	569.9	628.7	731.2	769.9	758.1
80°	348.0	359.8	378.2	393.3	408.5	423.6	416.9	443.8	497.6	529.5	512.7
82.5°	221.9	235.4	289.1	302.6	309.3	319.4	307.6	309.3	332.9	353.0	332.9
85°	142.9	151.3	183.2	200.1	201.7	208.5	203.4	191.6	191.6	174.8	196.7
87.5°	65.6	67.2	82.3	97.5	100.9	90.7	89.1	85.7	68.9	65.6	70.6
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°	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3
2.5°	4059.7	4063.1	4064.7	4069.7	4071.4	4071.4	4073.1	4076.5
5°	4091.6	4096.6	4098.4	4105.1	4106.7	4105.1	4108.4	4110.1
7.5°	4148.8	4157.2	4160.5	4167.3	4162.2	4168.9	4170.6	4170.6
10°	4232.8	4241.3	4242.9	4249.6	4246.3	4249.6	4249.6	4246.3
12.5°	4343.8	4345.4	4340.4	4345.4	4338.7	4342.1	4337.0	4333.6
15°	4466.5	4461.4	4449.6	4449.6	4439.6	4441.2	4439.6	4437.9
17.5°	4585.8	4575.8	4567.4	4564.0	4555.6	4553.9	4548.9	4548.9
20°	4716.9	4711.9	4706.9	4700.2	4691.8	4683.3	4681.6	4685.0
22.5°	4875.0	4873.2	4873.2	4870.0	4858.2	4849.7	4844.7	4844.7
25°	5086.7	5071.7	5071.7	5069.9	5064.9	5059.8	5049.8	5054.8
27.5°	5325.5	5317.1	5323.7	5322.1	5317.1	5317.1	5310.3	5310.3
30°	5619.7	5616.3	5626.3	5617.9	5601.2	5599.5	5592.8	5584.4
32.5°	5959.2	5955.8	5971.0	5960.9	5934.0	5918.9	5905.4	5898.7
35°	6337.5	6339.1	6357.6	6350.9	6320.6	6310.6	6287.1	6283.7
37.5°	6751.0	6777.9	6809.8	6816.5	6791.4	6784.6	6759.4	6746.0
40°	7236.8	7272.1	7320.8	7332.6	7305.7	7300.7	7265.4	7246.9
42.5°	7754.6	7815.0	7875.6	7885.6	7858.8	7831.9	7798.3	7784.8
45°	8332.9	8405.1	8484.1	8504.3	8463.9	8432.0	8388.3	8388.3
47.5°	8981.7	9072.4	9161.5	9217.0	9180.1	9146.4	9094.3	9060.7
50°	9748.2	9872.6	9988.6	10045.8	9987.0	9923.0	9832.3	9802.0
52.5°	10709.8	10844.3	10945.2	10914.9	10824.0	10734.9	10635.8	10595.5
55°	11936.9	11982.3	11982.3	11868.0	11686.5	11536.8	11380.5	11328.4
57.5°	13471.8	13296.8	13027.9	12686.6	12258.0	11884.8	11632.7	11513.3
60°	15275.4	14435.0	13485.2	12552.2	11785.6	11153.5	10778.7	10607.3
62.5°	16477.4	14278.6	12375.7	10877.9	9775.1	9013.6	8495.9	8294.2
65°	15399.8	11908.4	9359.9	7568.0	6366.0	5591.0	5078.3	4890.1
67.5°	11279.7	7462.0	4984.2	3572.1	2617.3	2087.8	1877.7	1790.3
70°	5063.2	2627.4	1610.4	1257.4	1084.2	995.1	956.5	943.1
72.5°	1526.3	1104.5	931.3	840.6	771.6	727.9	695.9	692.5
75°	921.2	766.5	680.8	627.1	583.3	548.0	531.2	526.2
77.5°	643.8	563.1	522.8	484.2	450.5	423.6	408.5	396.7
80°	452.1	413.6	395.1	373.2	351.4	326.1	304.2	294.2
82.5°	302.6	294.2	294.2	280.7	262.3	238.7	195.0	184.9
85°	195.0	193.3	196.7	191.6	178.2	152.9	126.0	119.4
87.5°	90.7	92.5	102.5	100.9	97.5	80.7	63.8	60.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)