

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: P191635

Luminaire Tested: **GAN-AF-07-LED-U-5NQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191635
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28614 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 226
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

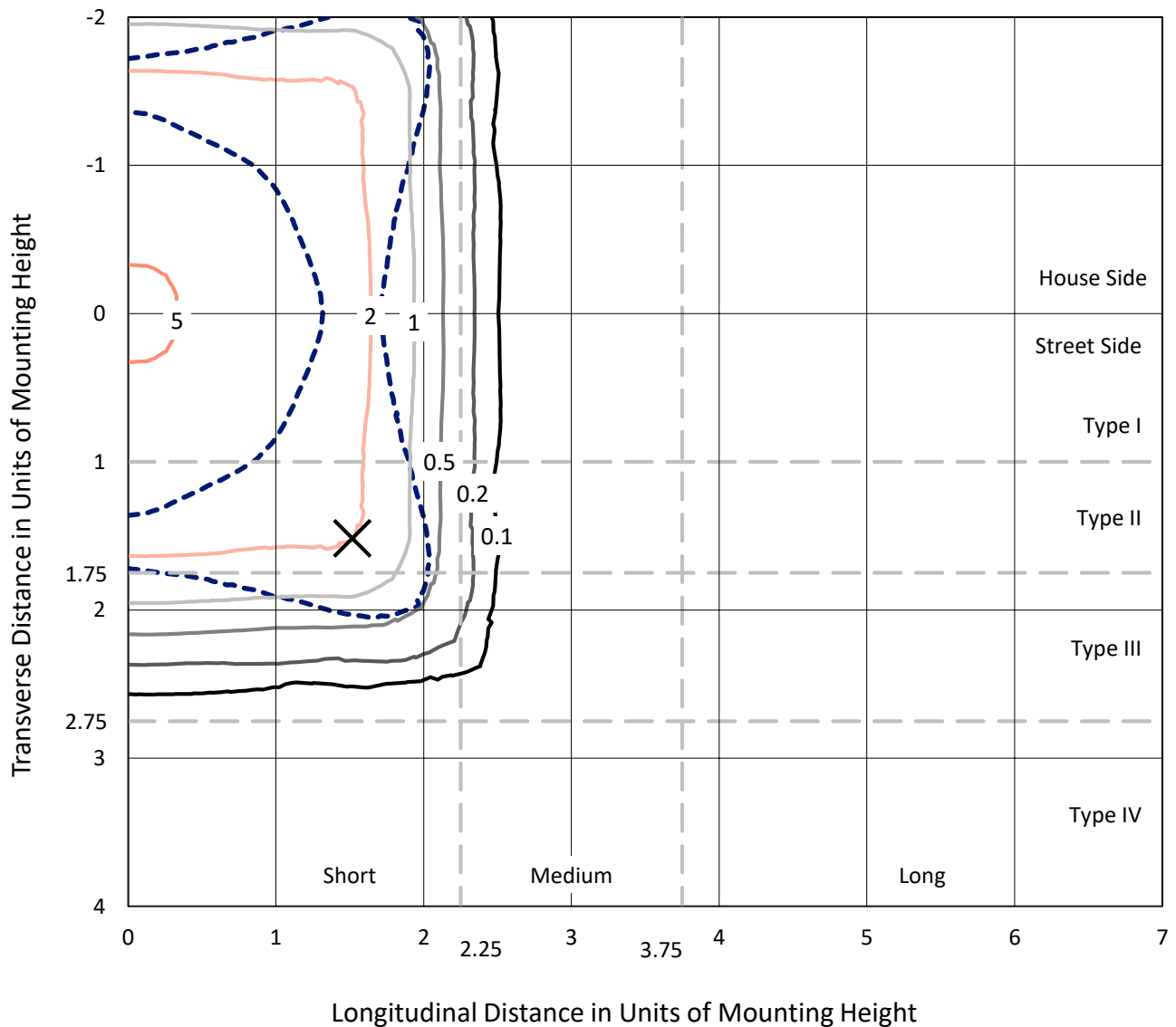


REPORT NUMBER: P191635

CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7050-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

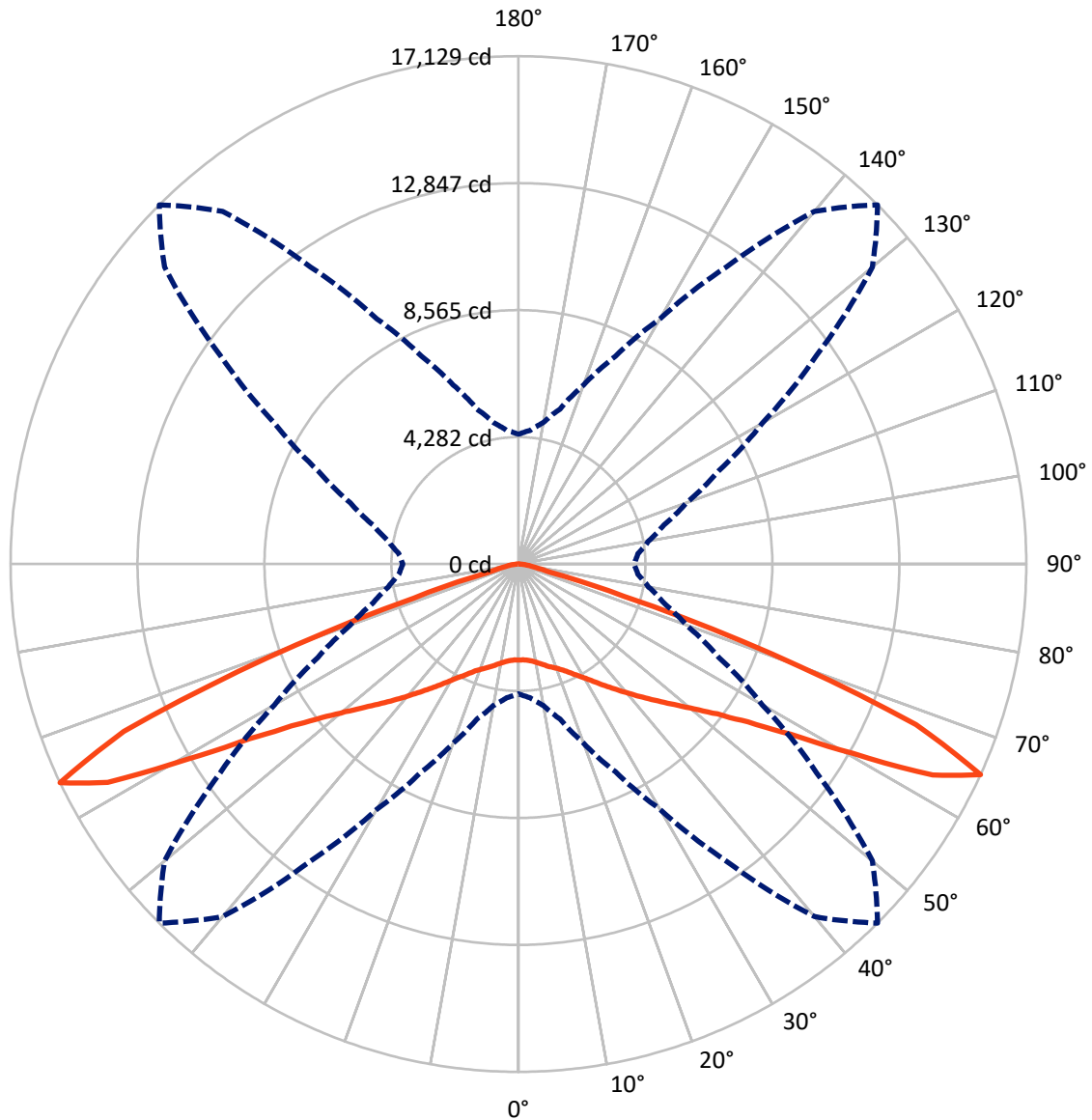


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P191635

CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7050-600

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	14307.0	0.0	14307.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14307.0	0.0	14307.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28614.0	0.0	28614.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	1.1
10°-20°	1012.1	3.5
20°-30°	1892.4	6.6
30°-40°	3200.6	11.2
40°-50°	5233.3	18.3
50°-60°	8321.8	29.1
60°-70°	7522.4	26.3
70°-80°	952.0	3.3
80°-90°	163.8	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°	28614.0	100.0
0°-180°	28614.0	100.0



REPORT NUMBER: P191635

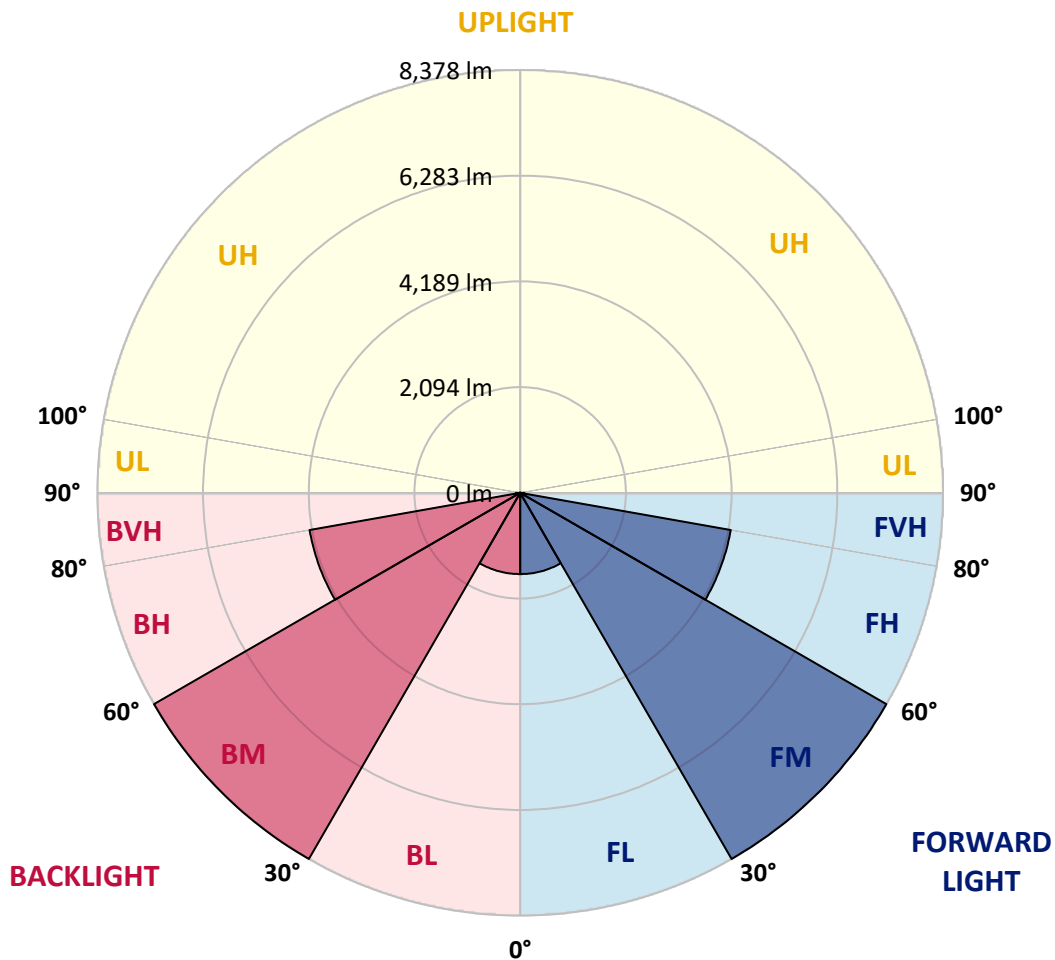
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1610.0	5.6			
FM	(30°-60°)	8377.9	29.3			
FH	(60°-80°)	4237.2	14.8			G2/5000
FVH	(80°-90°)	81.9	0.3			G1/100
BL	(0°-30°)	1610.0	5.6	B3/2500		
BM	(30°-60°)	8377.9	29.3	B4/8500		
BH	(60°-80°)	4237.2	14.8	B4/5000		G2/5000
BVH	(80°-90°)	81.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P191635

CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7
2.5°	3240.4	3243.0	3245.7	3243.0	3245.7	3241.7	3239.0	3243.0	3239.0	3235.0	3237.7
5°	3268.5	3269.9	3269.9	3265.8	3269.9	3267.2	3263.2	3268.5	3264.5	3260.5	3263.2
7.5°	3315.4	3320.8	3316.8	3312.7	3315.4	3312.7	3310.1	3311.4	3310.1	3306.0	3307.4
10°	3378.4	3382.4	3379.7	3378.4	3381.1	3379.7	3377.1	3375.7	3377.1	3373.0	3373.0
12.5°	3454.8	3453.4	3452.1	3453.4	3457.5	3457.5	3456.1	3457.5	3460.1	3461.5	3458.8
15°	3529.8	3532.5	3532.5	3532.5	3540.6	3547.3	3551.3	3554.0	3559.3	3560.7	3555.3
17.5°	3623.6	3623.6	3622.3	3623.6	3631.7	3642.4	3646.4	3651.8	3657.1	3661.2	3654.5
20°	3728.2	3730.8	3730.8	3733.5	3744.2	3756.3	3756.3	3759.0	3756.3	3759.0	3755.0
22.5°	3855.5	3863.5	3863.5	3864.9	3875.6	3890.3	3886.3	3890.3	3883.6	3889.0	3883.6
25°	4021.6	4033.7	4031.0	4031.0	4039.1	4048.5	4049.8	4057.8	4056.5	4063.2	4059.2
27.5°	4209.3	4228.0	4233.4	4232.0	4237.4	4246.8	4249.5	4258.8	4253.5	4258.8	4256.2
30°	4434.4	4442.4	4453.2	4457.2	4463.9	4473.3	4473.3	4474.6	4467.9	4475.9	4480.0
32.5°	4667.6	4682.3	4693.0	4717.2	4729.2	4735.9	4734.6	4737.3	4730.6	4741.3	4749.3
35°	4975.8	4986.5	5003.9	5022.7	5038.8	5037.4	5033.4	5034.8	5034.8	5044.1	5052.2
37.5°	5347.0	5349.7	5372.5	5399.3	5407.3	5399.3	5375.2	5369.8	5357.7	5369.8	5383.2
40°	5739.7	5749.0	5794.6	5812.0	5816.0	5801.3	5766.5	5746.4	5719.6	5734.3	5753.1
42.5°	6151.1	6169.8	6211.4	6242.2	6255.6	6246.2	6198.0	6167.2	6132.3	6140.4	6159.1
45°	6606.7	6629.5	6688.5	6717.9	6743.4	6728.7	6681.8	6634.9	6579.9	6583.9	6613.4
47.5°	7115.9	7138.7	7215.1	7264.7	7278.1	7275.4	7223.2	7158.8	7083.8	7081.1	7106.6
50°	7686.8	7709.6	7804.8	7881.1	7920.0	7916.0	7854.3	7763.2	7672.1	7673.4	7705.6
52.5°	8244.3	8272.5	8371.6	8503.0	8579.3	8634.3	8596.8	8511.0	8399.8	8402.4	8431.9
55°	8767.0	8813.9	8927.8	9106.0	9248.1	9402.2	9446.4	9443.7	9376.7	9395.5	9424.9
57.5°	9020.2	9089.9	9265.5	9546.9	9836.4	10149.9	10415.3	10613.6	10698.0	10825.4	10795.9
60°	8540.5	8651.7	8910.3	9324.4	9896.7	10550.6	11251.5	11936.3	12520.6	12961.5	12708.2
62.5°	6992.7	7137.4	7451.0	7981.7	8847.4	9894.0	11235.4	12854.3	14617.8	15681.9	14922.0
65°	4375.4	4525.5	4844.5	5412.7	6425.8	7727.0	9546.9	12229.8	15525.1	17129.2	15582.7
67.5°	1706.0	1787.7	1960.6	2323.7	3084.9	4242.8	6069.3	9114.0	13055.3	14461.1	12812.7
70°	855.0	863.0	895.2	962.2	1125.7	1462.1	2224.6	4225.3	7487.2	9043.0	7217.8
72.5°	617.8	619.1	635.2	664.7	717.0	792.0	936.7	1293.2	2435.0	3721.5	2282.2
75°	473.1	478.4	487.8	503.9	532.0	569.5	621.8	745.1	923.3	1070.7	900.5
77.5°	364.5	375.2	381.9	396.7	414.1	439.6	454.3	501.2	582.9	613.8	604.4
80°	277.4	286.8	301.5	313.6	325.6	337.7	332.3	353.8	396.7	422.1	408.7
82.5°	176.9	187.6	230.5	241.2	246.6	254.6	245.2	246.6	265.3	281.4	265.3
85°	113.9	120.6	146.1	159.5	160.8	166.2	162.2	152.8	152.8	139.4	156.8
87.5°	52.3	53.6	65.7	77.7	80.4	72.4	71.0	68.3	54.9	52.3	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191635

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7
2.5°	3236.3	3239.0	3240.4	3244.4	3245.7	3245.7	3247.1	3249.8
5°	3261.8	3265.8	3267.2	3272.5	3273.9	3272.5	3275.2	3276.6
7.5°	3307.4	3314.1	3316.8	3322.1	3318.1	3323.5	3324.8	3324.8
10°	3374.4	3381.1	3382.4	3387.8	3385.1	3387.8	3387.8	3385.1
12.5°	3462.8	3464.2	3460.1	3464.2	3458.8	3461.5	3457.5	3454.8
15°	3560.7	3556.6	3547.3	3547.3	3539.2	3540.6	3539.2	3537.9
17.5°	3655.8	3647.8	3641.1	3638.4	3631.7	3630.3	3626.3	3626.3
20°	3760.3	3756.3	3752.3	3746.9	3740.2	3733.5	3732.2	3734.9
22.5°	3886.3	3885.0	3885.0	3882.3	3872.9	3866.2	3862.2	3862.2
25°	4055.2	4043.1	4043.1	4041.8	4037.7	4033.7	4025.7	4029.7
27.5°	4245.4	4238.7	4244.1	4242.8	4238.7	4238.7	4233.4	4233.4
30°	4480.0	4477.3	4485.3	4478.6	4465.2	4463.9	4458.5	4451.8
32.5°	4750.7	4748.0	4760.0	4752.0	4730.6	4718.5	4707.8	4702.4
35°	5052.2	5053.5	5068.3	5062.9	5038.8	5030.7	5012.0	5009.3
37.5°	5381.9	5403.3	5428.8	5434.1	5414.0	5408.7	5388.6	5377.8
40°	5769.1	5797.3	5836.1	5845.5	5824.1	5820.1	5791.9	5777.2
42.5°	6181.9	6230.1	6278.4	6286.4	6265.0	6243.5	6216.7	6206.0
45°	6642.9	6700.5	6763.5	6779.6	6747.4	6722.0	6687.1	6687.1
47.5°	7160.2	7232.5	7303.6	7347.8	7318.3	7291.5	7250.0	7223.2
50°	7771.3	7870.4	7962.9	8008.5	7961.6	7910.6	7838.3	7814.1
52.5°	8537.8	8645.0	8725.4	8701.3	8628.9	8557.9	8478.8	8446.7
55°	9516.1	9552.3	9552.3	9461.1	9316.4	9197.1	9072.5	9031.0
57.5°	10739.6	10600.2	10385.8	10113.8	9772.0	9474.5	9273.5	9178.4
60°	12177.5	11507.5	10750.3	10006.6	9395.5	8891.6	8592.7	8456.1
62.5°	13135.7	11382.8	9865.8	8671.8	7792.7	7185.6	6772.9	6612.1
65°	12276.7	9493.3	7461.7	6033.1	5075.0	4457.2	4048.5	3898.4
67.5°	8992.1	5948.7	3973.4	2847.7	2086.5	1664.4	1496.9	1427.2
70°	4036.4	2094.6	1283.8	1002.4	864.4	793.3	762.5	751.8
72.5°	1216.8	880.4	742.4	670.1	615.1	580.3	554.8	552.1
75°	734.4	611.1	542.7	499.9	465.0	436.9	423.5	419.5
77.5°	513.3	448.9	416.8	385.9	359.1	337.7	325.6	316.3
80°	360.5	329.7	314.9	297.5	280.1	260.0	242.6	234.5
82.5°	241.2	234.5	234.5	223.8	209.1	190.3	155.5	147.4
85°	155.5	154.1	156.8	152.8	142.1	121.9	100.5	95.1
87.5°	72.4	73.7	81.7	80.4	77.7	64.3	50.9	48.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)