

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: P190857

Luminaire Tested: **GAN-AF-09-LED-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190857
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-09-LED-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56150.8 lumens
Efficiency: N/A
Efficacy: 112.1 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): 501
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

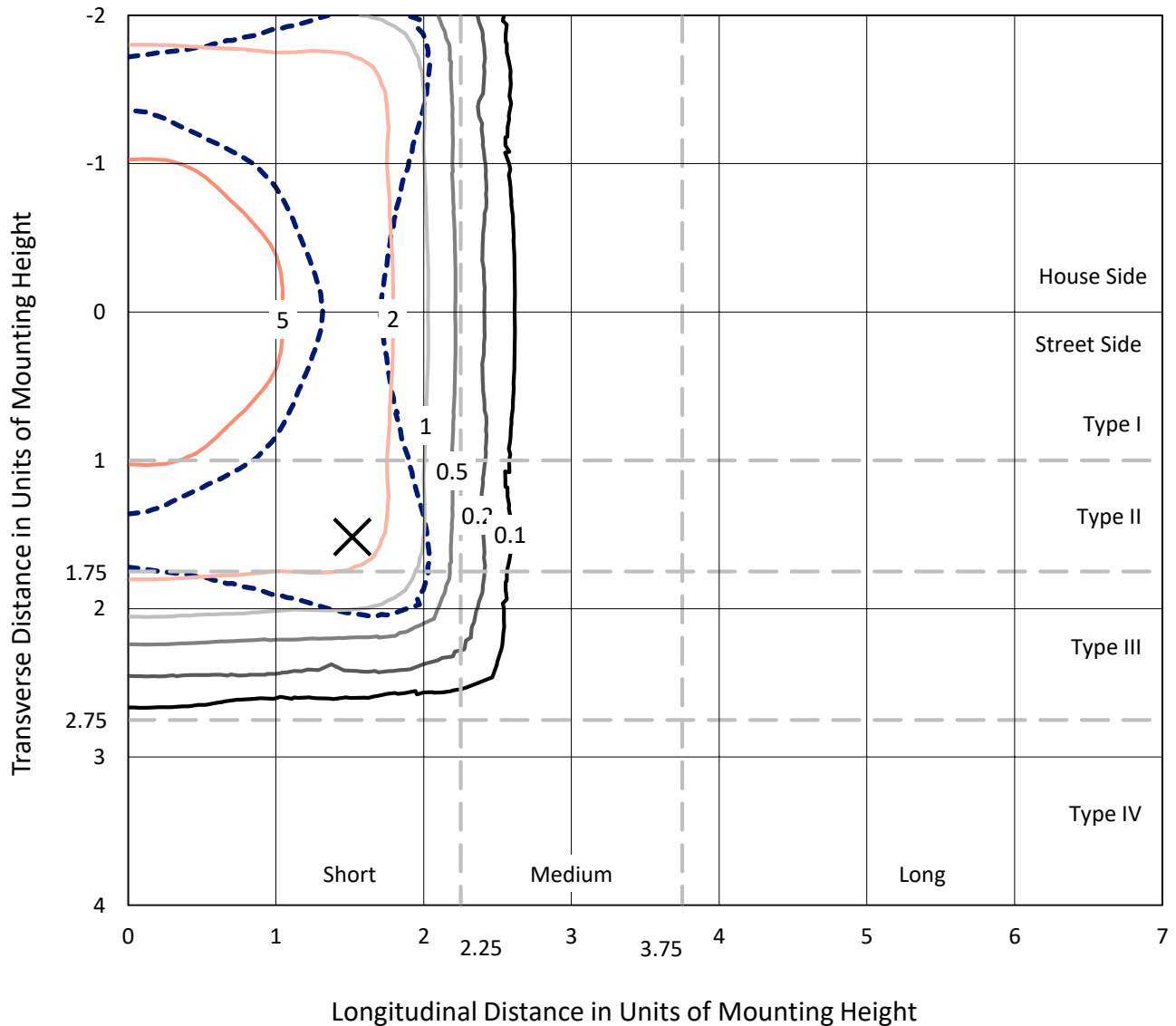


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Iso-Footcandle Lines of Horizontal Illumination

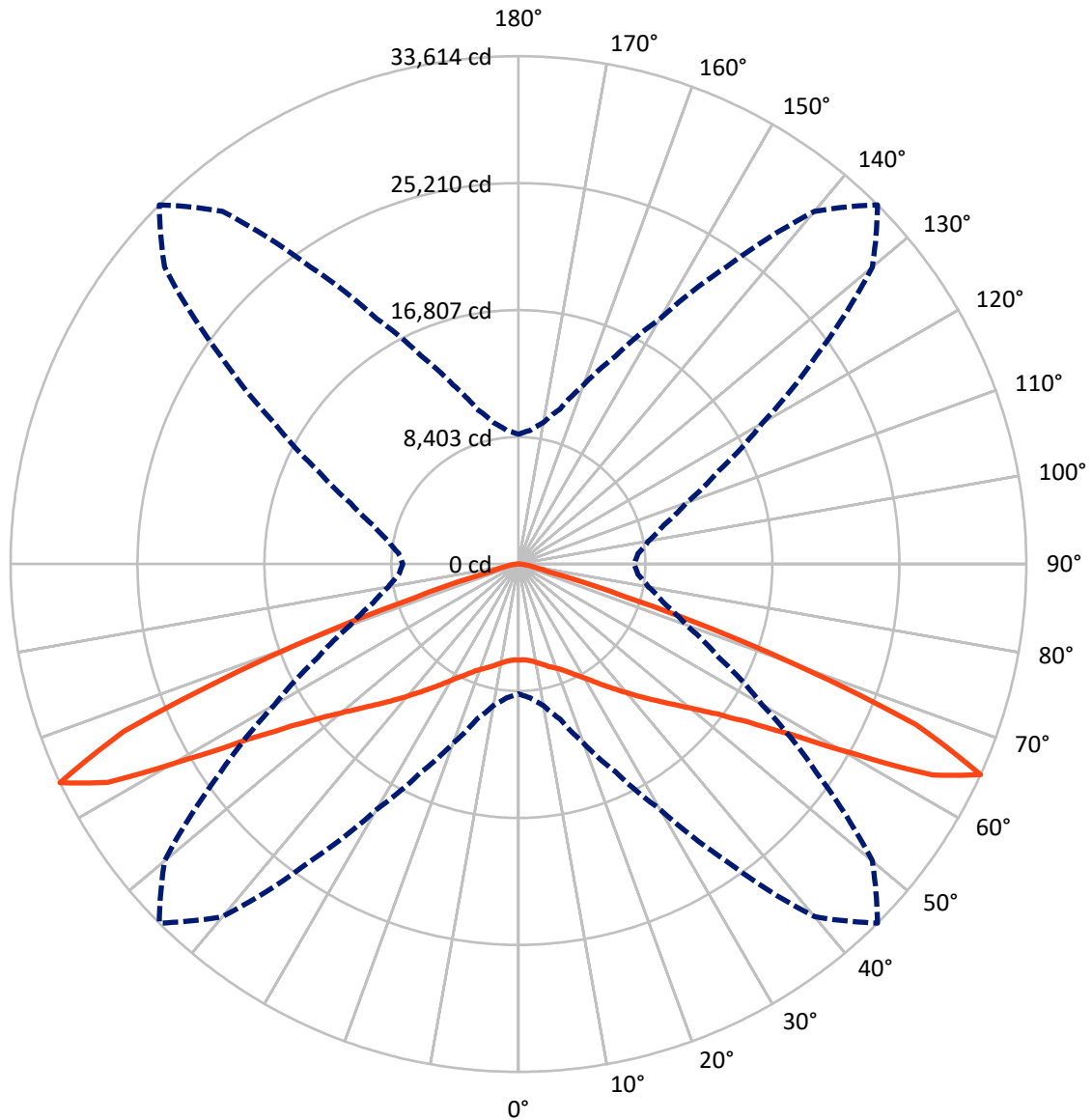
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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	28075.4	0.0	28075.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28075.4	0.0	28075.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	56150.8	0.0	56150.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.3	1.1
10°-20°	1986.1	3.5
20°-30°	3713.6	6.6
30°-40°	6280.7	11.2
40°-50°	10269.7	18.3
50°-60°	16330.4	29.1
60°-70°	14761.6	26.3
70°-80°	1868.2	3.3
80°-90°	321.3	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°	56150.8	100.0
0°-180°	56150.8	100.0



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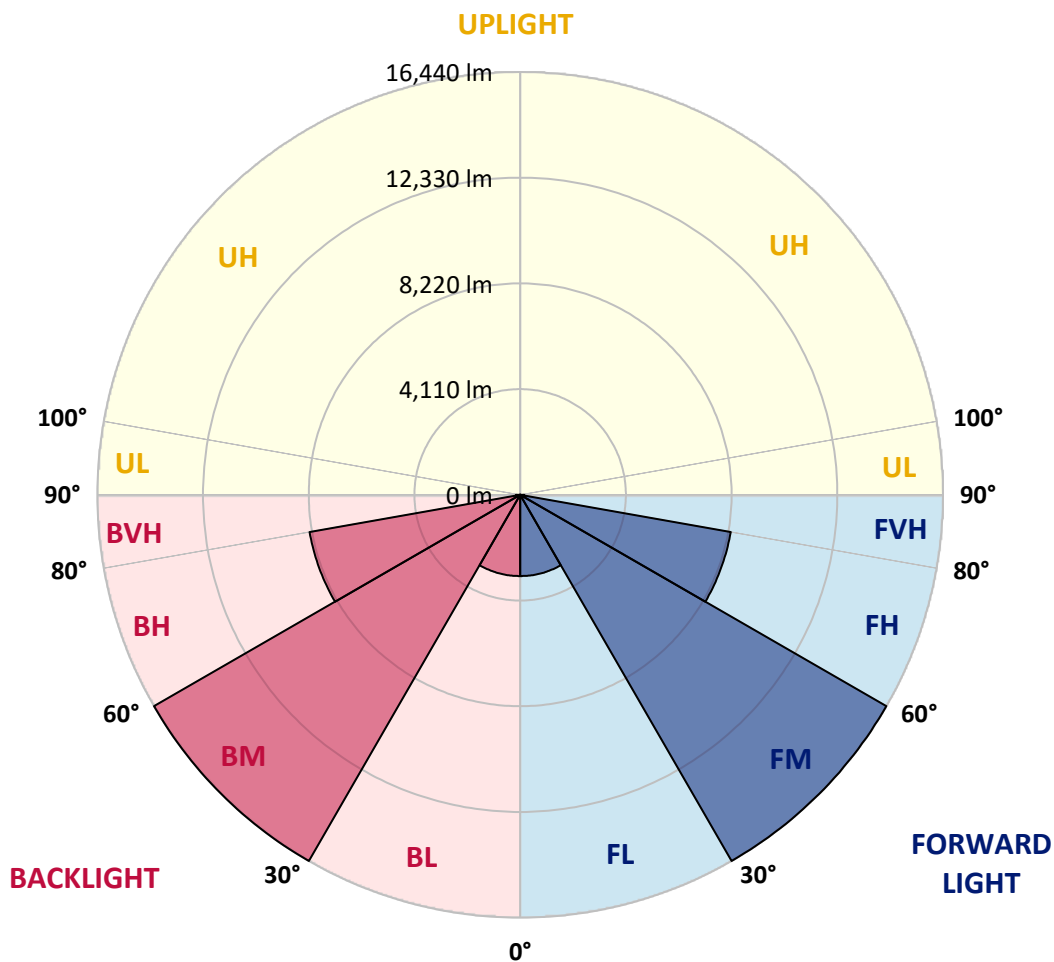
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3159.5	5.6			
FM	(30°-60°)	16440.4	29.3			
FH	(60°-80°)	8314.9	14.8			G4/12000
FVH	(80°-90°)	160.7	0.3			G2/225
BL	(0°-30°)	3159.5	5.6	B4/5000		
BM	(30°-60°)	16440.4	29.3	B5		
BH	(60°-80°)	8314.9	14.8	B5		G4/12000
BVH	(80°-90°)	160.7	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4
2.5°	6358.8	6364.0	6369.3	6364.0	6369.3	6361.4	6356.1	6364.0	6356.1	6348.2	6353.4
5°	6414.0	6416.6	6416.6	6408.7	6416.6	6411.3	6403.5	6414.0	6406.1	6398.1	6403.5
7.5°	6506.0	6516.5	6508.6	6500.8	6506.0	6500.8	6495.5	6498.1	6495.5	6487.7	6490.2
10°	6629.6	6637.5	6632.2	6629.6	6634.9	6632.2	6627.0	6624.3	6627.0	6619.1	6619.1
12.5°	6779.5	6776.8	6774.3	6776.8	6784.8	6784.8	6782.2	6784.8	6790.0	6792.7	6787.4
15°	6926.8	6932.0	6932.0	6932.0	6947.8	6961.0	6968.9	6974.1	6984.6	6987.3	6976.7
17.5°	7110.8	7110.8	7108.3	7110.8	7126.6	7147.7	7155.5	7166.1	7176.6	7184.5	7171.4
20°	7315.9	7321.3	7321.3	7326.5	7347.5	7371.2	7371.2	7376.5	7371.2	7376.5	7368.6
22.5°	7565.8	7581.6	7581.6	7584.3	7605.2	7634.2	7626.3	7634.2	7621.1	7631.5	7621.1
25°	7891.9	7915.6	7910.3	7910.3	7926.1	7944.5	7947.1	7962.9	7960.3	7973.4	7965.5
27.5°	8260.0	8296.8	8307.4	8304.7	8315.3	8333.7	8339.0	8357.4	8346.9	8357.4	8352.1
30°	8701.8	8717.7	8738.7	8746.5	8759.7	8778.1	8778.1	8780.8	8767.6	8783.4	8791.2
32.5°	9159.4	9188.3	9209.4	9256.8	9280.4	9293.6	9291.0	9296.2	9283.1	9304.0	9319.9
35°	9764.3	9785.3	9819.5	9856.3	9887.8	9885.3	9877.4	9880.0	9880.0	9898.4	9914.1
37.5°	10492.7	10498.0	10542.7	10595.3	10611.1	10595.3	10548.0	10537.4	10513.8	10537.4	10563.7
40°	11263.2	11281.6	11371.0	11405.3	11413.2	11384.2	11315.9	11276.4	11223.8	11252.8	11289.6
42.5°	12070.6	12107.4	12189.0	12249.4	12275.7	12257.3	12162.6	12102.1	12033.8	12049.5	12086.4
45°	12964.7	13009.4	13125.1	13183.0	13232.9	13204.0	13112.0	13019.9	12912.1	12920.0	12977.9
47.5°	13964.0	14008.7	14158.6	14255.9	14282.2	14276.9	14174.4	14048.2	13900.9	13895.7	13945.6
50°	15084.3	15129.0	15315.7	15465.6	15541.9	15534.0	15413.0	15234.2	15055.4	15057.9	15121.1
52.5°	16178.3	16233.5	16428.1	16685.8	16835.7	16943.5	16869.9	16701.6	16483.3	16488.5	16546.4
55°	17203.9	17296.0	17519.5	17869.2	18148.0	18450.4	18537.2	18531.9	18400.4	18437.3	18495.1
57.5°	17700.9	17837.6	18182.1	18734.4	19302.4	19917.8	20438.5	20827.7	20993.3	21243.2	21185.3
60°	16759.4	16977.7	17485.3	18297.8	19420.7	20704.1	22079.5	23423.2	24569.8	25435.1	24938.0
62.5°	13722.1	14006.0	14621.4	15662.8	17361.6	19415.5	22047.9	25224.6	28685.4	30773.4	29282.4
65°	8586.1	8880.6	9506.6	10621.6	12609.7	15163.2	18734.4	23999.1	30465.7	33613.6	30578.8
67.5°	3347.7	3508.1	3847.3	4560.0	6053.7	8325.8	11910.2	17885.0	25619.1	28377.7	25143.1
70°	1677.7	1693.6	1756.7	1888.2	2209.0	2869.1	4365.4	8291.6	14692.4	17745.6	14163.9
72.5°	1212.3	1215.0	1246.5	1304.4	1407.0	1554.2	1838.2	2537.7	4778.3	7302.8	4478.5
75°	928.3	938.9	957.3	988.8	1044.0	1117.7	1220.2	1462.1	1812.0	2101.1	1767.1
77.5°	715.2	736.3	749.5	778.4	812.6	862.6	891.5	983.6	1144.0	1204.4	1186.0
80°	544.3	562.7	591.7	615.4	639.0	662.7	652.1	694.3	778.4	828.4	802.1
82.5°	347.1	368.2	452.3	473.3	483.9	499.6	481.2	483.9	520.7	552.3	520.7
85°	223.5	236.7	286.6	312.9	315.6	326.1	318.2	299.8	299.8	273.5	307.7
87.5°	102.6	105.2	128.9	152.5	157.7	142.0	139.4	134.1	107.8	102.6	110.5
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°	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4	6353.4
2.5°	6350.9	6356.1	6358.8	6366.6	6369.3	6369.3	6371.9	6377.2
5°	6400.8	6408.7	6411.3	6421.9	6424.5	6421.9	6427.1	6429.8
7.5°	6490.2	6503.4	6508.6	6519.2	6511.3	6521.8	6524.4	6524.4
10°	6621.8	6634.9	6637.5	6648.1	6642.7	6648.1	6648.1	6642.7
12.5°	6795.3	6797.9	6790.0	6797.9	6787.4	6792.7	6784.8	6779.5
15°	6987.3	6979.4	6961.0	6961.0	6945.2	6947.8	6945.2	6942.6
17.5°	7174.0	7158.2	7145.0	7139.8	7126.6	7124.0	7116.2	7116.2
20°	7379.1	7371.2	7363.3	7352.8	7339.7	7326.5	7323.9	7329.1
22.5°	7626.3	7623.6	7623.6	7618.4	7600.0	7586.8	7578.9	7578.9
25°	7957.6	7934.0	7934.0	7931.3	7923.5	7915.6	7899.8	7907.7
27.5°	8331.1	8317.9	8328.5	8325.8	8317.9	8317.9	8307.4	8307.4
30°	8791.2	8786.0	8801.8	8788.7	8762.4	8759.7	8749.2	8736.1
32.5°	9322.5	9317.2	9340.9	9325.1	9283.1	9259.3	9238.4	9227.8
35°	9914.1	9916.8	9945.7	9935.2	9887.8	9872.1	9835.3	9830.0
37.5°	10561.1	10603.2	10653.1	10663.6	10624.3	10613.7	10574.2	10553.2
40°	11321.1	11376.3	11452.5	11471.0	11428.9	11421.0	11365.8	11336.9
42.5°	12131.1	12225.7	12320.4	12336.2	12294.1	12252.1	12199.4	12178.4
45°	13035.7	13148.8	13272.4	13304.0	13240.9	13190.8	13122.5	13122.5
47.5°	14050.7	14192.8	14332.2	14419.0	14361.1	14308.5	14227.0	14174.4
50°	15249.9	15444.5	15626.0	15715.4	15623.4	15523.5	15381.5	15334.1
52.5°	16754.2	16964.5	17122.4	17075.0	16933.0	16793.6	16638.5	16575.4
55°	18673.9	18744.9	18744.9	18566.0	18282.1	18048.0	17803.4	17721.9
57.5°	21074.8	20801.4	20380.7	19846.8	19176.2	18592.3	18197.9	18011.2
60°	23896.6	22581.7	21095.9	19636.4	18437.3	17448.5	16862.0	16593.8
62.5°	25776.8	22337.2	19360.3	17017.2	15292.0	14100.8	13290.8	12975.2
65°	24091.2	18629.2	14642.5	11839.1	9958.9	8746.5	7944.5	7649.9
67.5°	17645.7	11673.5	7797.2	5588.3	4094.6	3266.2	2937.4	2800.7
70°	7920.8	4110.3	2519.3	1967.0	1696.2	1556.8	1496.4	1475.3
72.5°	2387.8	1727.8	1456.9	1314.9	1207.1	1138.6	1088.7	1083.5
75°	1441.1	1199.2	1065.1	980.9	912.6	857.3	831.0	823.1
77.5°	1007.2	881.0	817.8	757.4	704.8	662.7	639.0	620.6
80°	707.4	646.9	618.0	583.8	549.6	510.1	476.0	460.2
82.5°	473.3	460.2	460.2	439.2	410.2	373.4	305.0	289.3
85°	305.0	302.4	307.7	299.8	278.8	239.3	197.2	186.7
87.5°	142.0	144.6	160.4	157.7	152.5	126.2	99.9	94.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)