

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: P268885

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268885
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-10-LED-U-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 52801.7 lumens
Efficiency: N/A
Efficacy: 94.6 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

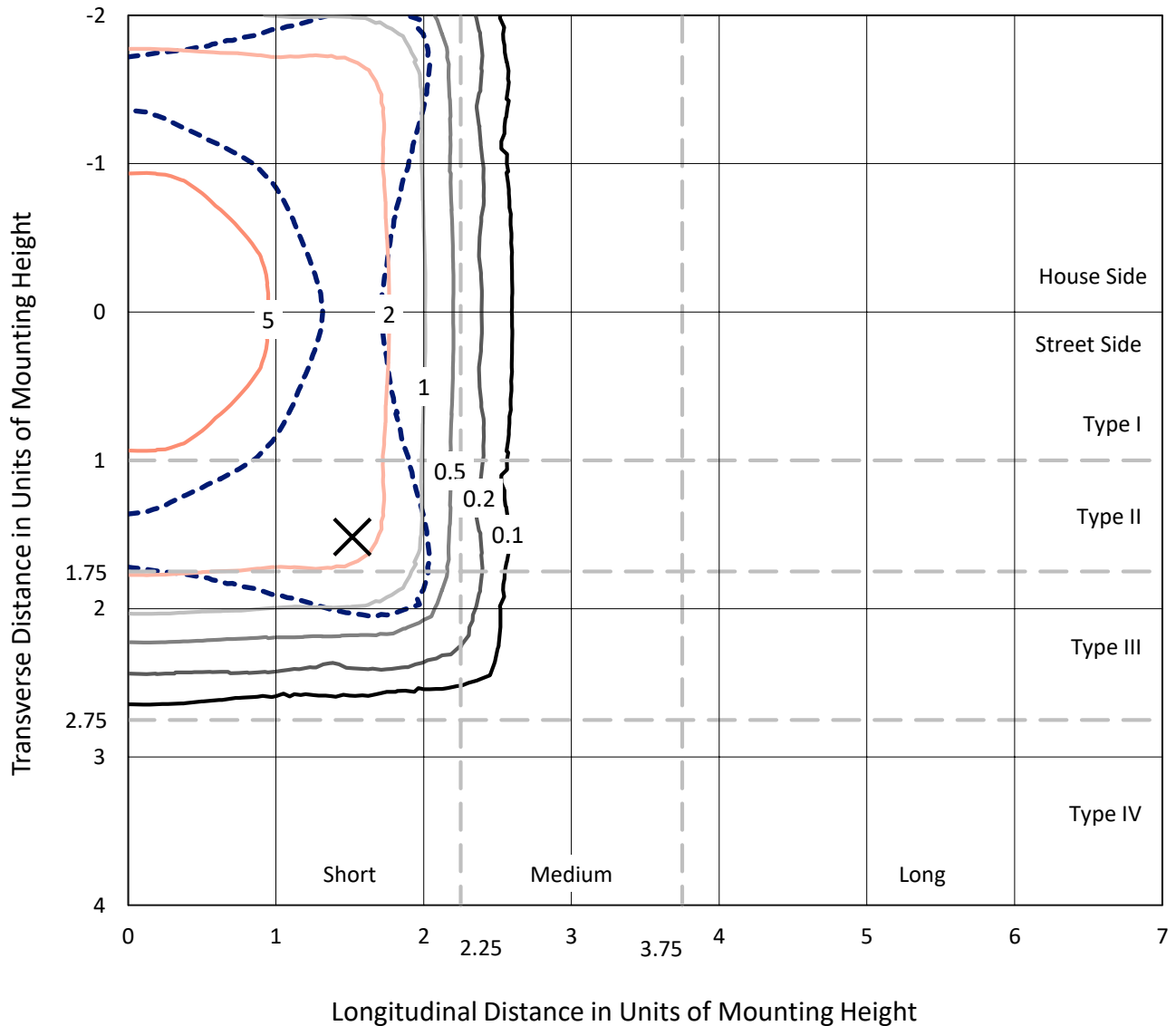
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

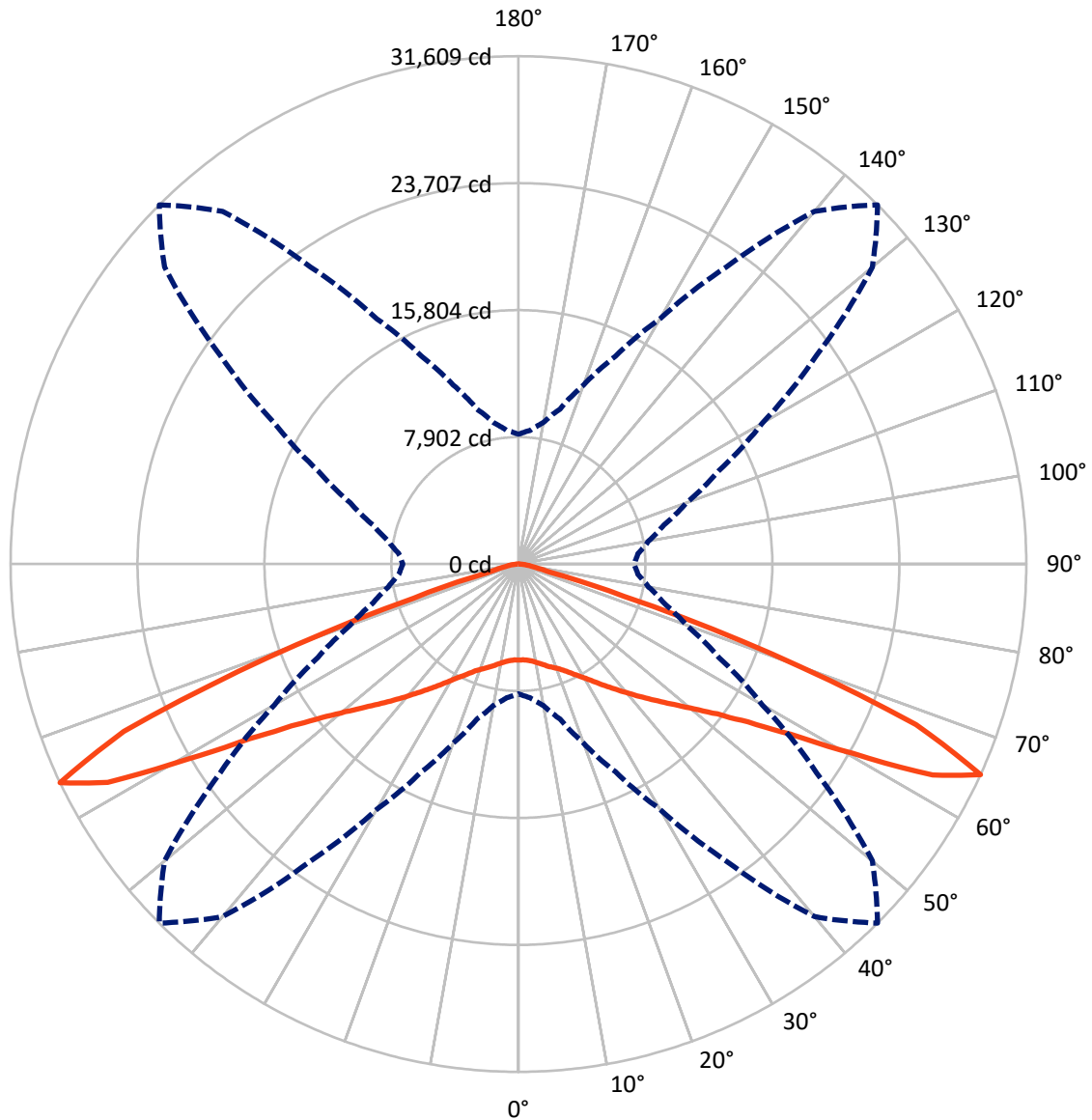
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	26400.9	0.0	26400.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26400.9	0.0	26400.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	52801.7	0.0	52801.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.3	1.1
10°-20°	1867.6	3.5
20°-30°	3492.1	6.6
30°-40°	5906.1	11.2
40°-50°	9657.1	18.3
50°-60°	15356.4	29.1
60°-70°	13881.1	26.3
70°-80°	1756.7	3.3
80°-90°	302.2	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°	52801.7	100.0
0°-180°	52801.7	100.0



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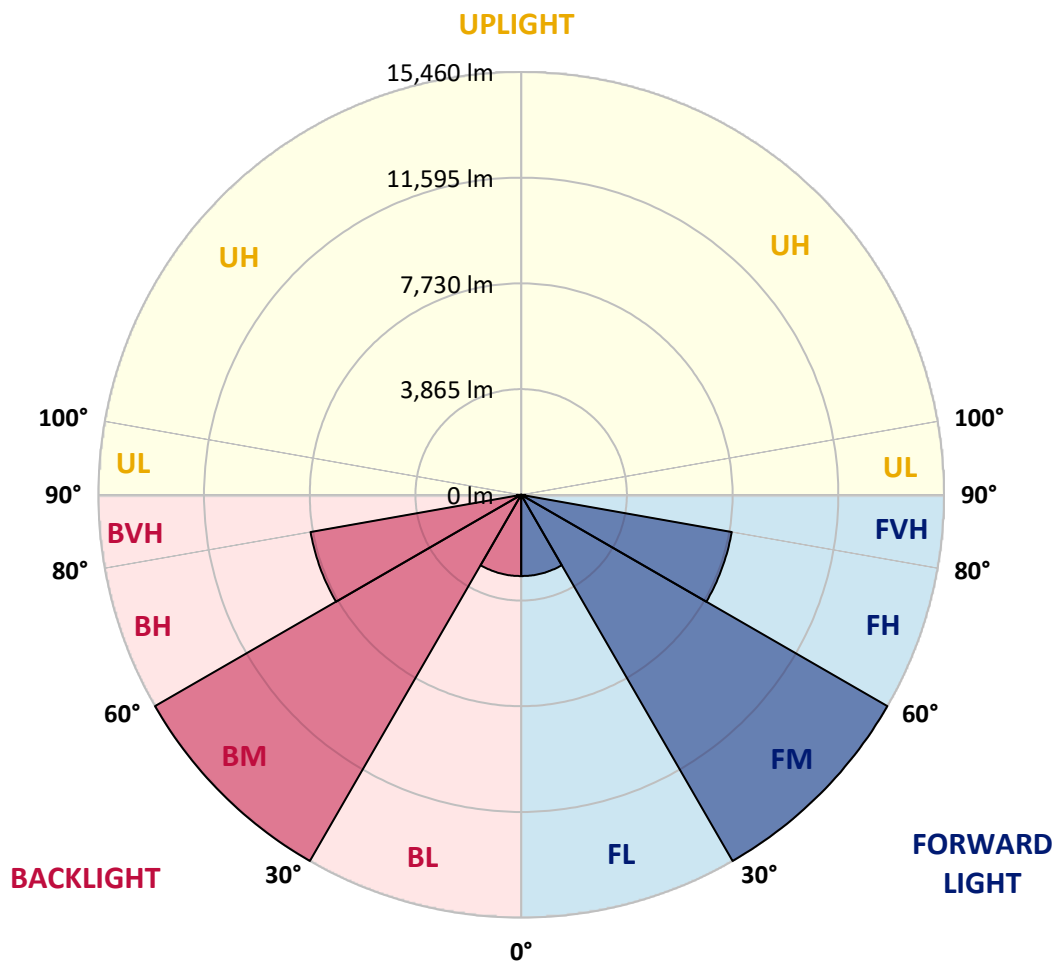
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2971.0	5.6			
FM	(30°-60°)	15459.8	29.3			
FH	(60°-80°)	7818.9	14.8			G4/12000
FVH	(80°-90°)	151.1	0.3			G2/225
BL	(0°-30°)	2971.0	5.6	B4/5000		
BM	(30°-60°)	15459.8	29.3	B5		
BH	(60°-80°)	7818.9	14.8	B5		G4/12000
BVH	(80°-90°)	151.1	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°	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5
2.5°	5979.5	5984.5	5989.4	5984.5	5989.4	5982.0	5977.1	5984.5	5977.1	5969.5	5974.5
5°	6031.4	6033.8	6033.8	6026.5	6033.8	6029.0	6021.5	6031.4	6024.0	6016.6	6021.5
7.5°	6117.9	6127.9	6120.4	6113.1	6117.9	6113.1	6108.0	6110.5	6108.0	6100.7	6103.2
10°	6234.1	6241.7	6236.7	6234.1	6239.2	6236.7	6231.7	6229.2	6231.7	6224.3	6224.3
12.5°	6375.1	6372.7	6370.2	6372.7	6380.1	6380.1	6377.6	6380.1	6385.1	6387.5	6382.5
15°	6513.6	6518.6	6518.6	6518.6	6533.5	6545.8	6553.2	6558.2	6568.0	6570.6	6560.6
17.5°	6686.8	6686.8	6684.3	6686.8	6701.5	6721.4	6728.8	6738.6	6748.5	6756.1	6743.7
20°	6879.6	6884.6	6884.6	6889.6	6909.4	6931.5	6931.5	6936.5	6931.5	6936.5	6929.0
22.5°	7114.5	7129.4	7129.4	7131.9	7151.6	7178.9	7171.3	7178.9	7166.5	7176.4	7166.5
25°	7421.2	7443.4	7438.5	7438.5	7453.3	7470.7	7473.1	7487.9	7485.4	7497.9	7490.4
27.5°	7767.5	7802.0	7811.9	7809.4	7819.3	7836.6	7841.6	7858.9	7849.0	7858.9	7853.9
30°	8182.8	8197.8	8217.4	8224.9	8237.3	8254.5	8254.5	8257.0	8244.6	8259.6	8266.9
32.5°	8613.0	8640.3	8660.1	8704.7	8726.9	8739.3	8736.7	8741.8	8729.4	8749.1	8764.0
35°	9181.9	9201.7	9233.9	9268.4	9298.1	9295.8	9288.3	9290.7	9290.7	9308.0	9322.9
37.5°	9867.0	9871.8	9913.9	9963.3	9978.3	9963.3	9918.8	9908.9	9886.7	9908.9	9933.6
40°	10591.5	10608.8	10692.9	10725.0	10732.4	10705.2	10641.0	10603.9	10554.4	10581.6	10616.2
42.5°	11350.7	11385.3	11462.0	11518.7	11543.5	11526.2	11437.2	11380.3	11315.9	11331.0	11365.4
45°	12191.4	12233.5	12342.4	12396.7	12443.7	12416.5	12330.0	12243.4	12142.0	12149.3	12203.8
47.5°	13131.2	13173.1	13314.0	13405.6	13430.4	13425.3	13329.1	13210.2	13071.7	13066.8	13113.8
50°	14184.5	14226.6	14402.3	14543.2	14614.9	14607.5	14493.8	14325.5	14157.4	14159.9	14219.2
52.5°	15213.3	15265.3	15448.2	15690.5	15831.5	15933.0	15863.7	15705.4	15500.2	15505.1	15559.5
55°	16177.8	16264.4	16474.6	16803.4	17065.6	17350.0	17431.5	17426.6	17303.0	17337.6	17391.9
57.5°	16645.1	16773.7	17097.7	17617.0	18151.2	18729.8	19219.4	19585.4	19741.2	19976.1	19921.7
60°	15759.9	15965.0	16442.3	17206.5	18262.5	19469.1	20762.5	22026.3	23104.3	23917.9	23450.6
62.5°	12903.7	13170.7	13749.4	14728.6	16326.2	18257.5	20732.8	23720.1	26974.5	28938.0	27535.8
65°	8074.1	8351.1	8939.6	9988.1	11857.5	14258.7	17617.0	22567.8	28648.7	31608.8	28754.9
67.5°	3148.0	3298.8	3617.8	4288.0	5692.6	7829.2	11199.8	16818.2	24091.0	26685.1	23643.5
70°	1577.8	1592.5	1652.0	1775.5	2077.2	2697.9	4105.1	7797.1	13816.1	16687.2	13319.1
72.5°	1139.9	1142.5	1172.2	1226.5	1323.1	1461.5	1728.6	2386.3	4493.3	6867.3	4211.3
75°	873.0	882.9	900.1	929.8	981.8	1050.9	1147.5	1374.9	1703.8	1975.8	1661.8
77.5°	672.7	692.5	704.8	731.9	764.1	811.1	838.3	924.9	1075.7	1132.7	1115.2
80°	511.9	529.2	556.4	578.7	601.0	623.2	613.4	652.9	731.9	779.0	754.2
82.5°	326.4	346.1	425.3	445.1	455.0	469.9	452.6	455.0	489.7	519.3	489.7
85°	210.3	222.6	269.5	294.3	296.7	306.6	299.2	281.9	281.9	257.2	289.3
87.5°	96.5	99.0	121.2	143.4	148.4	133.6	131.1	126.1	101.4	96.5	103.8
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°	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5	5974.5
2.5°	5972.1	5977.1	5979.5	5986.9	5989.4	5989.4	5991.9	5996.7
5°	6019.1	6026.5	6029.0	6038.9	6041.3	6038.9	6043.7	6046.2
7.5°	6103.2	6115.5	6120.4	6130.4	6122.8	6132.8	6135.2	6135.2
10°	6226.8	6239.2	6241.7	6251.6	6246.5	6251.6	6251.6	6246.5
12.5°	6390.1	6392.5	6385.1	6392.5	6382.5	6387.5	6380.1	6375.1
15°	6570.6	6563.0	6545.8	6545.8	6530.9	6533.5	6530.9	6528.5
17.5°	6746.1	6731.3	6719.0	6713.9	6701.5	6699.1	6691.7	6691.7
20°	6939.0	6931.5	6924.1	6914.3	6901.9	6889.6	6887.0	6891.9
22.5°	7171.3	7169.0	7169.0	7164.1	7146.6	7134.2	7127.0	7127.0
25°	7483.1	7460.8	7460.8	7458.3	7450.9	7443.4	7428.7	7436.0
27.5°	7834.2	7821.8	7831.8	7829.2	7821.8	7821.8	7811.9	7811.9
30°	8266.9	8262.0	8276.9	8264.4	8239.8	8237.3	8227.3	8215.0
32.5°	8766.5	8761.4	8783.7	8769.0	8729.4	8707.1	8687.2	8677.4
35°	9322.9	9325.3	9352.6	9342.6	9298.1	9283.4	9248.7	9243.6
37.5°	9931.2	9970.7	10017.8	10027.6	9990.5	9980.7	9943.6	9923.8
40°	10645.9	10697.7	10769.5	10786.8	10747.2	10739.9	10687.9	10660.7
42.5°	11407.5	11496.6	11585.6	11600.4	11560.8	11521.3	11471.9	11452.0
45°	12258.2	12364.5	12480.8	12510.4	12451.0	12404.1	12339.7	12339.7
47.5°	13212.7	13346.3	13477.4	13558.9	13504.6	13455.2	13378.5	13329.1
50°	14340.5	14523.3	14694.0	14778.0	14691.5	14597.5	14464.0	14419.6
52.5°	15755.0	15952.7	16101.1	16056.6	15923.0	15792.1	15646.0	15586.8
55°	17560.1	17626.9	17626.9	17458.6	17191.7	16971.6	16741.6	16664.9
57.5°	19817.9	19560.8	19165.0	18663.0	18032.4	17483.4	17112.5	16937.0
60°	22471.3	21234.9	19837.7	18465.2	17337.6	16407.7	15856.3	15604.1
62.5°	24239.4	21004.9	18205.5	16002.1	14380.0	13259.7	12498.1	12201.3
65°	22654.3	17518.0	13769.1	11133.1	9364.9	8224.9	7470.7	7193.6
67.5°	16593.2	10977.3	7332.1	5254.9	3850.3	3071.3	2762.3	2633.7
70°	7448.3	3865.1	2369.0	1849.7	1595.0	1464.0	1407.0	1387.3
72.5°	2245.5	1624.8	1369.9	1236.4	1135.1	1070.8	1023.8	1018.9
75°	1355.2	1127.6	1001.5	922.4	858.2	806.1	781.4	774.0
77.5°	947.2	828.4	769.0	712.1	662.7	623.2	601.0	583.5
80°	665.3	608.3	581.2	549.0	516.9	479.8	447.5	432.8
82.5°	445.1	432.8	432.8	413.0	385.8	351.1	286.9	272.0
85°	286.9	284.5	289.3	281.9	262.1	225.0	185.5	175.6
87.5°	133.6	136.1	150.8	148.4	143.4	118.7	94.0	89.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)