

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: P192607

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192607
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-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58237.4 lumens
Efficiency: N/A
Efficacy: 101.3 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): 575
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

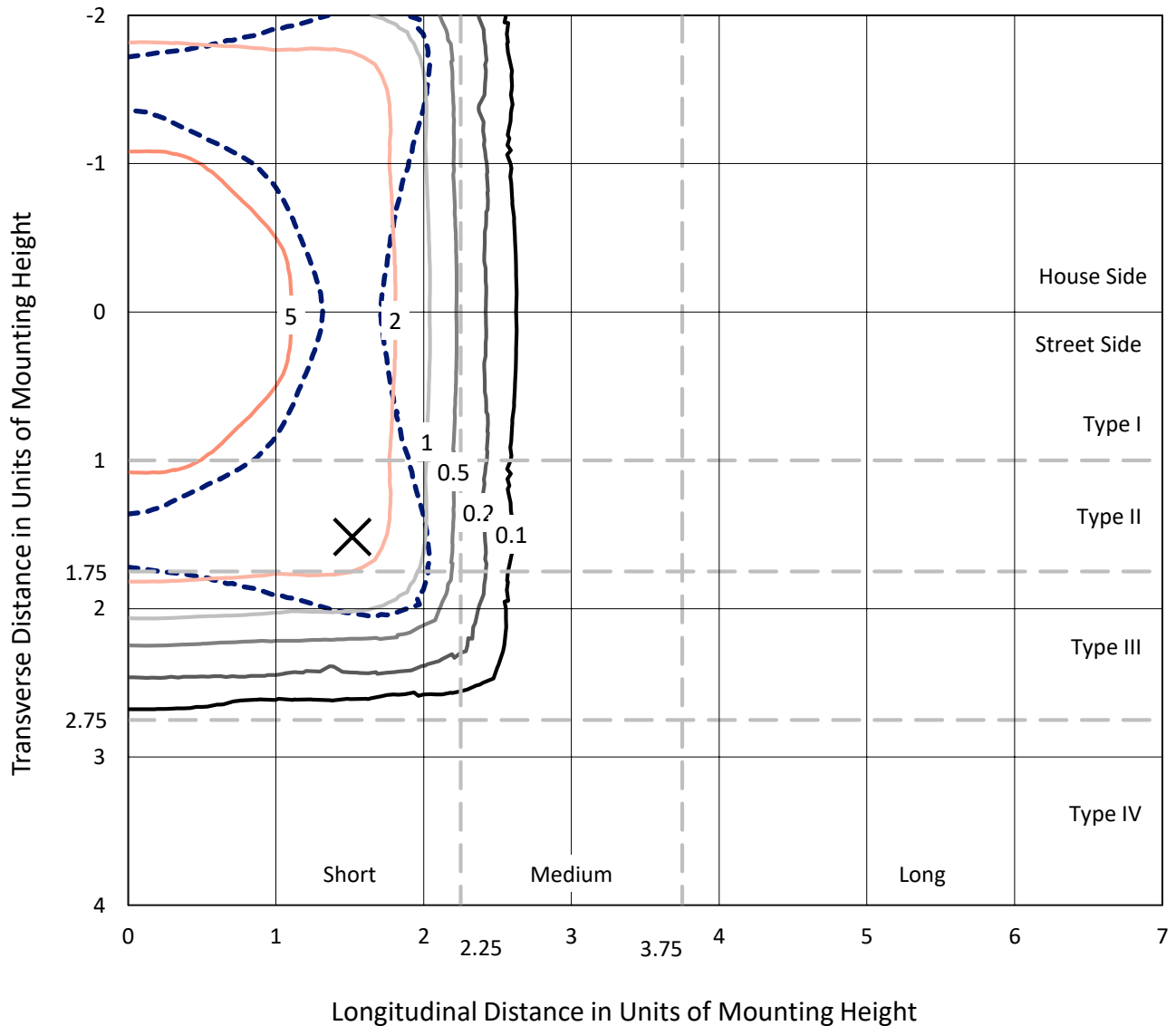


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

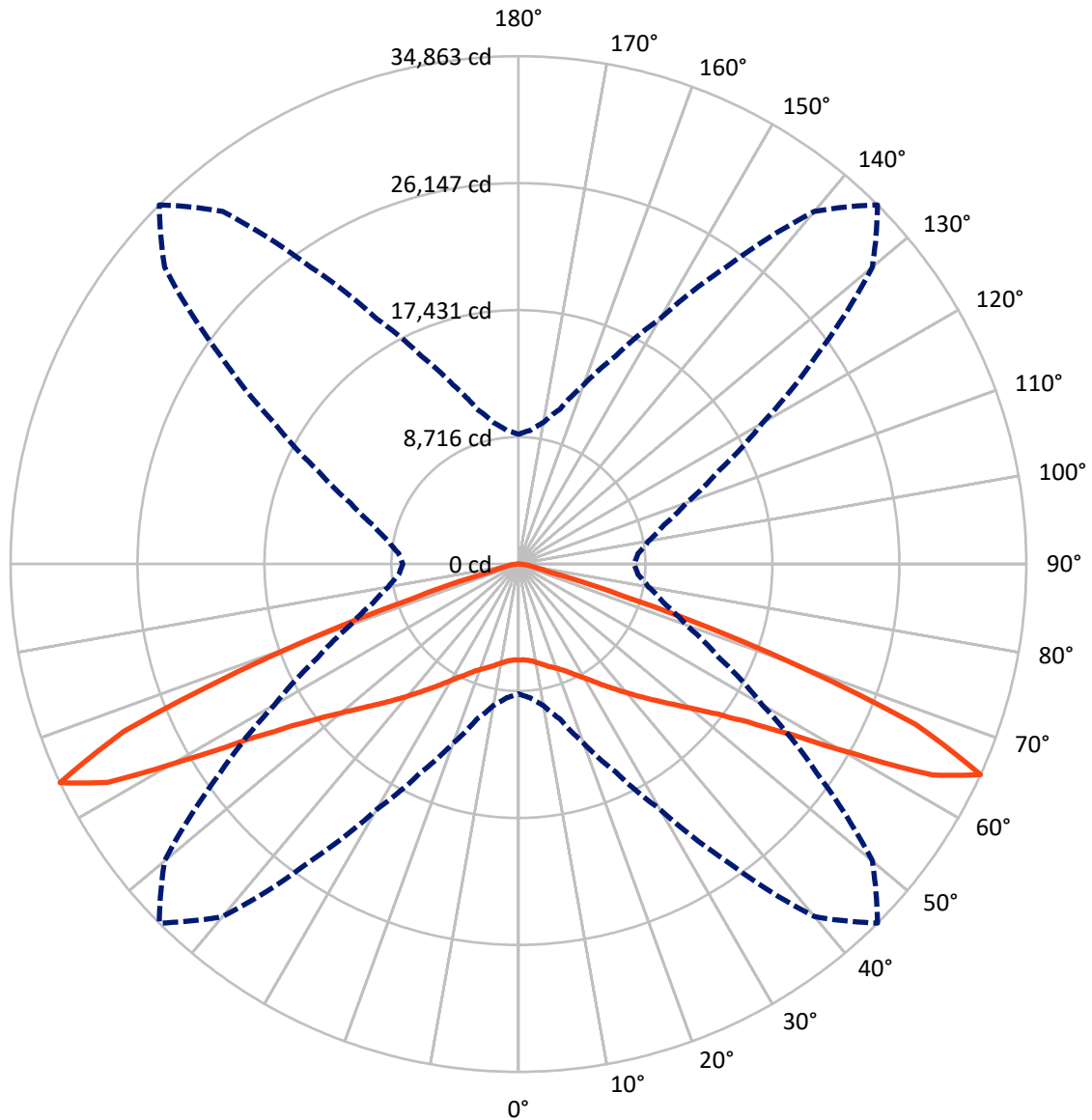


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

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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	29118.7	0.0	29118.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29118.7	0.0	29118.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	58237.4	0.0	58237.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.3	1.1
10°-20°	2059.9	3.5
20°-30°	3851.6	6.6
30°-40°	6514.1	11.2
40°-50°	10651.3	18.3
50°-60°	16937.2	29.1
60°-70°	15310.1	26.3
70°-80°	1937.6	3.3
80°-90°	333.3	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°	58237.4	100.0
0°-180°	58237.4	100.0



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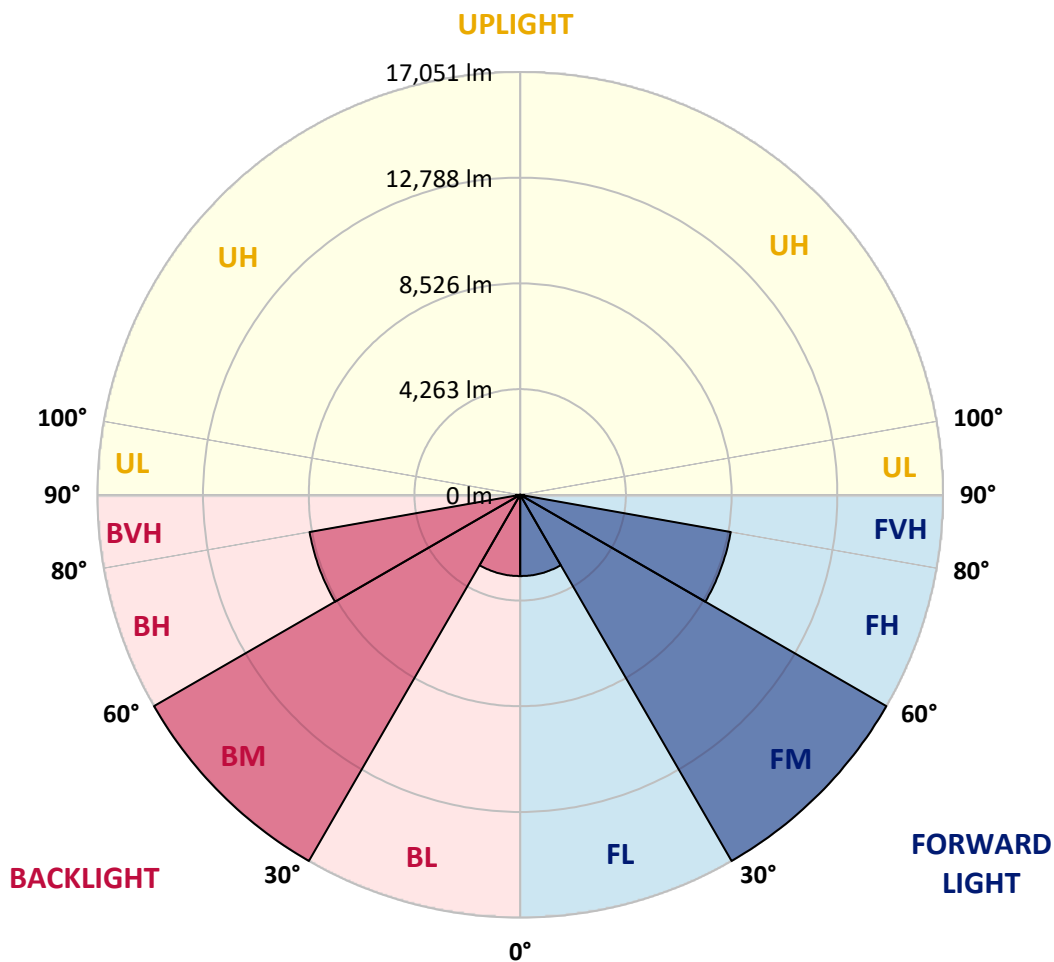
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3276.9	5.6			
FM	(30°-60°)	17051.3	29.3			
FH	(60°-80°)	8623.8	14.8			G4/12000
FVH	(80°-90°)	166.7	0.3			G2/225
BL	(0°-30°)	3276.9	5.6	B4/5000		
BM	(30°-60°)	17051.3	29.3	B5		
BH	(60°-80°)	8623.8	14.8	B5		G4/12000
BVH	(80°-90°)	166.7	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°	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5
2.5°	6595.0	6600.5	6606.0	6600.5	6606.0	6597.7	6592.2	6600.5	6592.2	6584.2	6589.5
5°	6652.4	6655.1	6655.1	6646.9	6655.1	6649.6	6641.5	6652.4	6644.2	6636.0	6641.5
7.5°	6747.8	6758.7	6750.5	6742.3	6747.8	6742.3	6736.9	6739.5	6736.9	6728.7	6731.5
10°	6876.0	6884.2	6878.8	6876.0	6881.4	6878.8	6873.3	6870.6	6873.3	6865.1	6865.1
12.5°	7031.5	7028.7	7026.0	7028.7	7036.9	7036.9	7034.2	7036.9	7042.3	7045.0	7039.6
15°	7184.3	7189.6	7189.6	7189.6	7205.9	7219.7	7227.8	7233.3	7244.2	7246.9	7236.0
17.5°	7375.1	7375.1	7372.4	7375.1	7391.5	7413.2	7421.4	7432.4	7443.3	7451.5	7437.9
20°	7587.8	7593.3	7593.3	7598.8	7620.7	7645.1	7645.1	7650.6	7645.1	7650.6	7642.3
22.5°	7847.0	7863.3	7863.3	7866.0	7887.9	7917.9	7909.8	7917.9	7904.3	7915.2	7904.3
25°	8185.1	8209.7	8204.3	8204.3	8220.6	8239.7	8242.4	8258.8	8256.0	8269.8	8261.5
27.5°	8567.0	8605.1	8616.0	8613.4	8624.3	8643.4	8648.9	8668.0	8657.0	8668.0	8662.5
30°	9025.3	9041.6	9063.4	9071.6	9085.2	9104.3	9104.3	9107.1	9093.4	9109.8	9118.0
32.5°	9499.8	9529.8	9551.7	9600.7	9625.3	9639.0	9636.2	9641.7	9628.0	9649.8	9666.1
35°	10127.1	10149.0	10184.4	10222.7	10255.3	10252.6	10244.3	10247.1	10247.1	10266.2	10282.6
37.5°	10882.7	10888.1	10934.4	10989.0	11005.3	10989.0	10939.9	10928.9	10904.5	10928.9	10956.3
40°	11681.8	11700.9	11793.7	11829.1	11837.2	11807.2	11736.3	11695.4	11640.9	11670.8	11709.1
42.5°	12519.2	12557.2	12641.9	12704.5	12731.9	12712.8	12614.6	12551.8	12480.9	12497.3	12535.6
45°	13446.4	13492.9	13612.8	13672.8	13724.7	13694.7	13599.2	13503.8	13391.9	13400.1	13460.0
47.5°	14482.9	14529.3	14684.8	14785.6	14813.0	14807.5	14701.2	14570.2	14417.5	14412.0	14463.8
50°	15644.9	15691.2	15884.8	16040.4	16119.4	16111.3	15985.7	15800.3	15614.8	15617.5	15683.0
52.5°	16779.5	16836.8	17038.6	17305.9	17461.3	17573.1	17496.8	17322.2	17095.8	17101.3	17161.4
55°	17843.1	17938.6	18170.5	18533.2	18822.3	19136.0	19226.1	19220.6	19084.2	19122.3	19182.3
57.5°	18358.7	18500.6	18857.8	19430.5	20019.7	20657.9	21197.9	21601.6	21773.5	22032.5	21972.6
60°	17382.3	17608.7	18135.0	18977.8	20142.4	21473.5	22899.8	24293.7	25482.9	26380.2	25864.7
62.5°	14232.0	14526.6	15164.7	16244.8	18006.8	20137.0	22867.2	26162.0	29751.3	31917.0	30370.5
65°	8905.1	9210.7	9859.9	11016.3	13078.3	15726.7	19430.5	24891.0	31597.9	34862.7	31715.1
67.5°	3472.0	3638.5	3990.2	4729.4	6278.7	8635.2	12352.8	18549.6	26571.1	29432.3	26077.5
70°	1740.2	1756.5	1822.0	1958.4	2291.0	2975.6	4527.6	8599.8	15238.4	18405.0	14690.2
72.5°	1257.3	1260.1	1292.9	1352.8	1459.1	1611.9	1906.5	2632.0	4955.8	7574.2	4644.9
75°	962.8	973.7	992.8	1025.5	1082.8	1159.1	1265.5	1516.5	1879.3	2179.2	1832.9
77.5°	741.9	763.7	777.4	807.3	842.8	894.7	924.7	1020.1	1186.4	1249.2	1230.0
80°	564.6	583.7	613.7	638.2	662.7	687.4	676.5	720.0	807.3	859.1	831.9
82.5°	360.0	381.9	469.2	490.9	501.8	518.2	499.1	501.8	540.1	572.7	540.1
85°	231.8	245.5	297.3	324.6	327.3	338.1	330.1	311.0	311.0	283.6	319.1
87.5°	106.4	109.2	133.7	158.2	163.7	147.3	144.5	139.1	111.8	106.4	114.5
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°	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5	6589.5
2.5°	6586.9	6592.2	6595.0	6603.2	6606.0	6606.0	6608.6	6614.1
5°	6638.7	6646.9	6649.6	6660.6	6663.2	6660.6	6665.9	6668.6
7.5°	6731.5	6745.0	6750.5	6761.4	6753.2	6764.1	6766.9	6766.9
10°	6867.8	6881.4	6884.2	6895.1	6889.6	6895.1	6895.1	6889.6
12.5°	7047.8	7050.5	7042.3	7050.5	7039.6	7045.0	7036.9	7031.5
15°	7246.9	7238.8	7219.7	7219.7	7203.3	7205.9	7203.3	7200.5
17.5°	7440.5	7424.1	7410.5	7405.1	7391.5	7388.7	7380.6	7380.6
20°	7653.3	7645.1	7636.9	7626.1	7612.4	7598.8	7596.0	7601.5
22.5°	7909.8	7907.0	7907.0	7901.5	7882.4	7868.8	7860.5	7860.5
25°	8253.3	8228.8	8228.8	8226.1	8217.9	8209.7	8193.4	8201.5
27.5°	8640.7	8627.0	8637.9	8635.2	8627.0	8627.0	8616.0	8616.0
30°	9118.0	9112.6	9128.8	9115.3	9087.9	9085.2	9074.3	9060.7
32.5°	9668.9	9663.4	9688.0	9671.6	9628.0	9603.5	9581.6	9570.7
35°	10282.6	10285.3	10315.2	10304.5	10255.3	10238.9	10200.8	10195.3
37.5°	10953.6	10997.2	11049.1	11059.9	11019.1	11008.1	10967.2	10945.4
40°	11741.8	11799.1	11878.1	11897.2	11853.6	11845.5	11788.2	11758.2
42.5°	12581.9	12680.1	12778.2	12794.6	12751.0	12707.3	12652.8	12630.9
45°	13520.1	13637.4	13765.6	13798.4	13732.9	13681.0	13610.1	13610.1
47.5°	14572.9	14720.2	14864.7	14954.8	14894.8	14840.2	14755.7	14701.2
50°	15816.7	16018.5	16206.7	16299.4	16203.9	16100.3	15953.1	15903.9
52.5°	17376.8	17595.0	17758.6	17709.5	17562.3	17417.7	17256.7	17191.3
55°	19367.9	19441.5	19441.5	19256.0	18961.4	18718.8	18465.1	18380.4
57.5°	21858.0	21574.4	21138.0	20584.3	19888.8	19283.2	18874.2	18680.5
60°	24784.6	23420.9	21879.8	20366.0	19122.3	18096.8	17488.6	17210.4
62.5°	26734.7	23167.3	20079.6	17649.5	15860.3	14624.8	13784.7	13457.4
65°	24986.4	19321.5	15186.6	12279.1	10329.0	9071.6	8239.7	7934.2
67.5°	18301.4	12107.2	8087.0	5795.8	4246.7	3387.6	3046.5	2904.7
70°	8215.2	4263.1	2612.9	2040.2	1759.2	1614.7	1551.9	1530.0
72.5°	2476.6	1792.0	1511.0	1363.8	1251.9	1181.0	1129.2	1123.7
75°	1494.6	1243.7	1104.6	1017.3	946.4	889.2	861.8	853.8
77.5°	1044.6	913.7	848.3	785.5	731.0	687.4	662.7	643.6
80°	733.6	671.0	641.0	605.6	570.0	529.2	493.7	477.4
82.5°	490.9	477.4	477.4	455.5	425.4	387.4	316.5	300.0
85°	316.5	313.7	319.1	311.0	289.1	248.2	204.6	193.6
87.5°	147.3	150.0	166.4	163.7	158.2	130.9	103.7	98.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)