

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: P191657

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191657
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 54891 lumens
Efficiency: N/A
Efficacy: 109.6 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

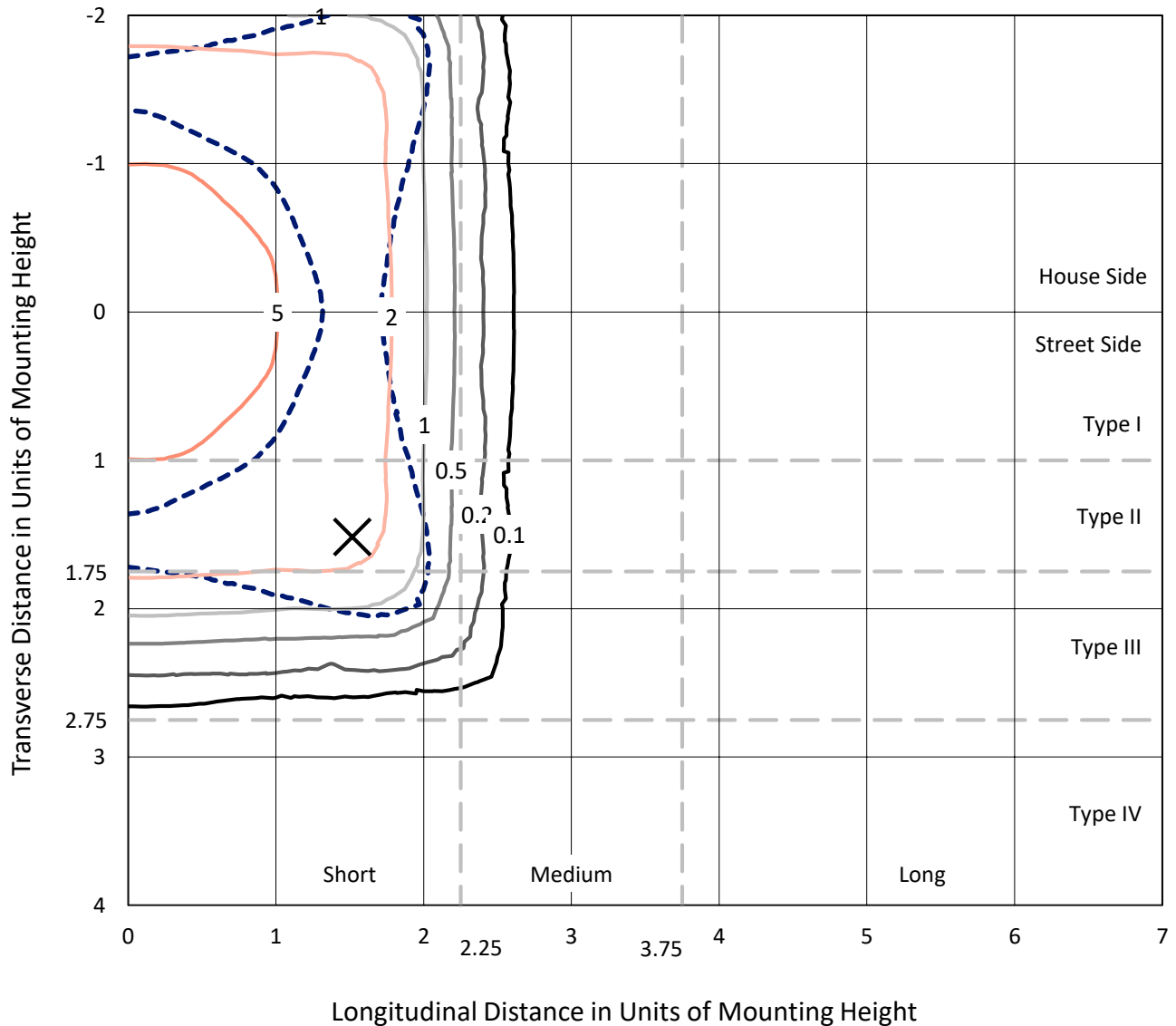
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

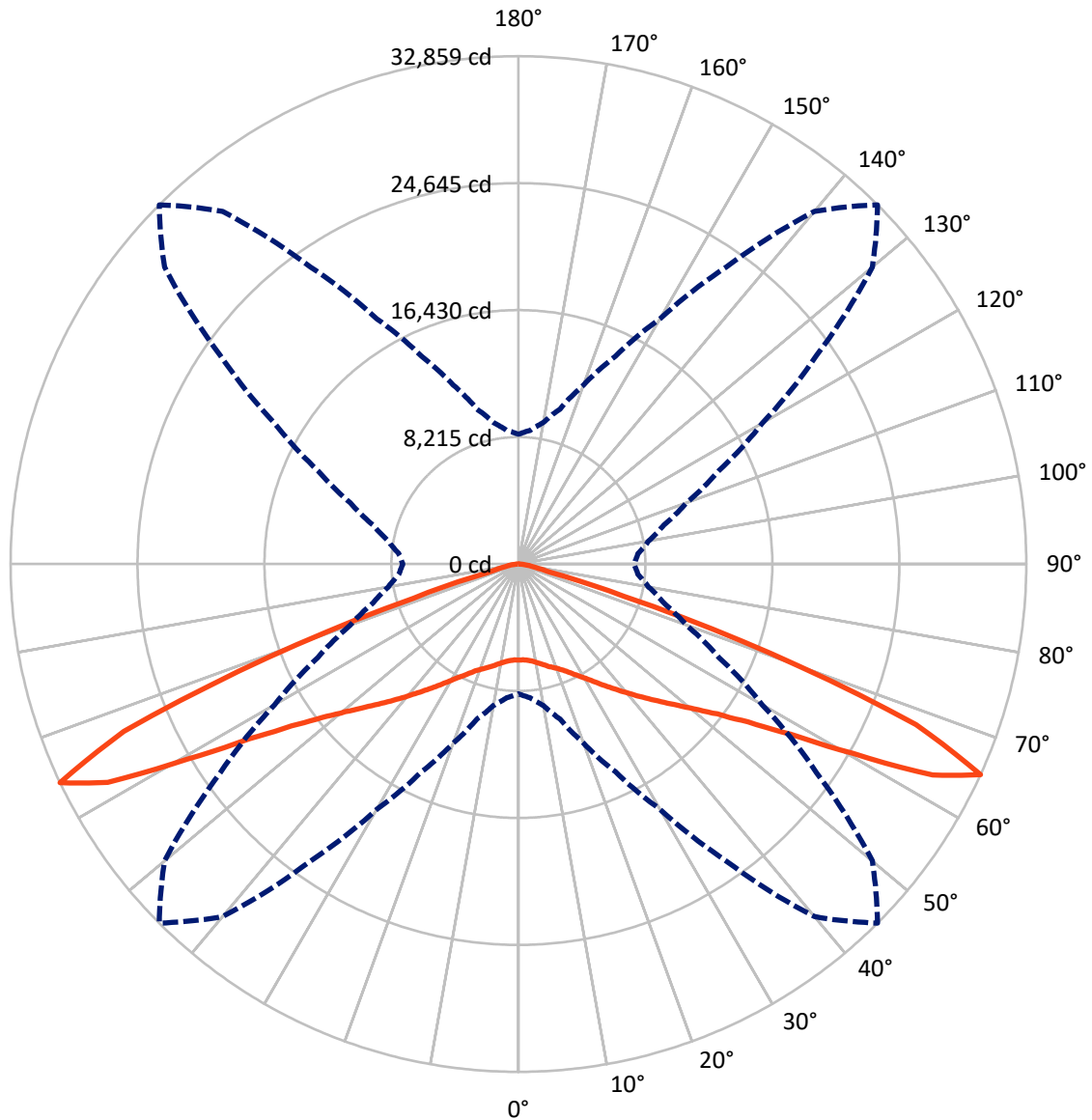
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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	27445.5	0.0	27445.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27445.5	0.0	27445.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54891.0	0.0	54891.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.4	1.1
10°-20°	1941.5	3.5
20°-30°	3630.3	6.6
30°-40°	6139.8	11.2
40°-50°	10039.3	18.3
50°-60°	15964.0	29.1
60°-70°	14430.4	26.3
70°-80°	1826.2	3.3
80°-90°	314.1	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°	54891.0	100.0
0°-180°	54891.0	100.0



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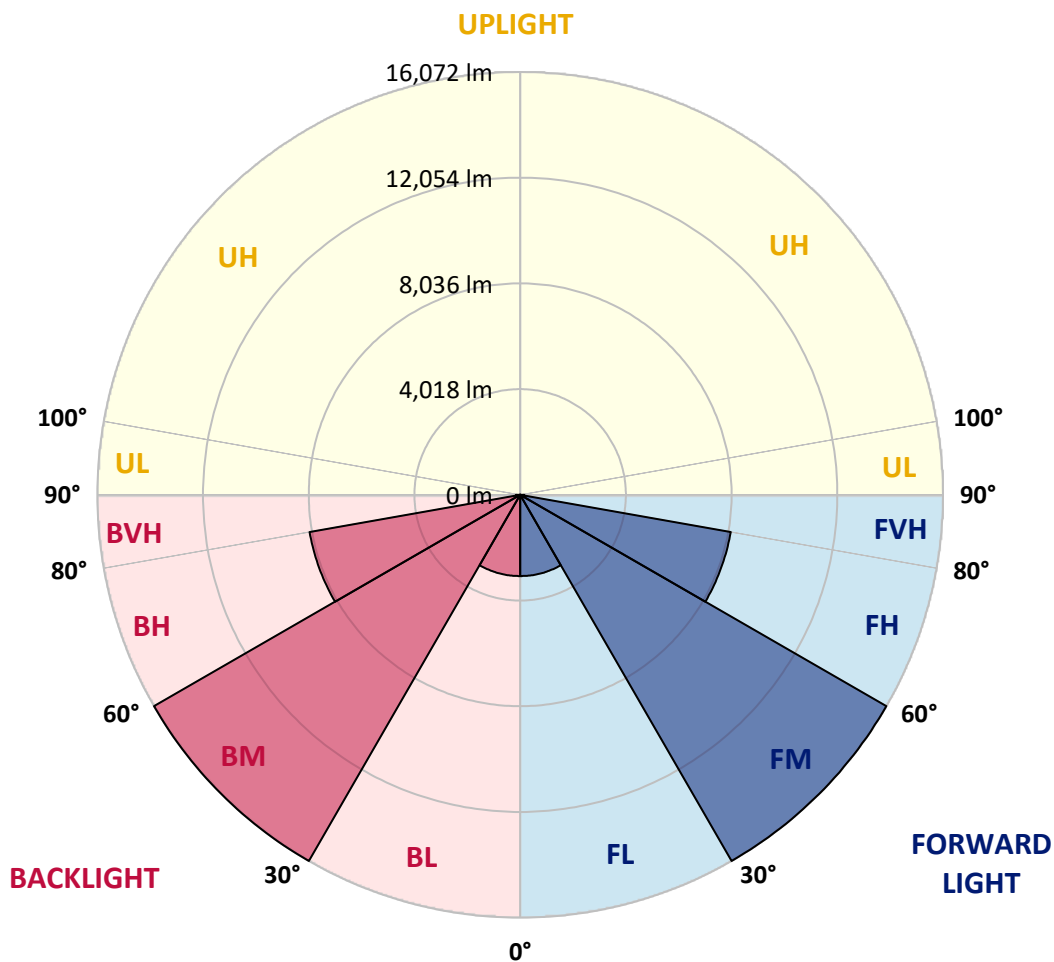
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3088.6	5.6			
FM	(30°-60°)	16071.5	29.3			
FH	(60°-80°)	8128.3	14.8			G4/12000
FVH	(80°-90°)	157.1	0.3			G2/225
BL	(0°-30°)	3088.6	5.6	B4/5000		
BM	(30°-60°)	16071.5	29.3	B5		
BH	(60°-80°)	8128.3	14.8	B5		G4/12000
BVH	(80°-90°)	157.1	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°	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9
2.5°	6216.1	6221.2	6226.4	6221.2	6226.4	6218.7	6213.5	6221.2	6213.5	6205.8	6210.9
5°	6270.1	6272.6	6272.6	6264.9	6272.6	6267.5	6259.8	6270.1	6262.4	6254.6	6259.8
7.5°	6360.0	6370.3	6362.6	6354.9	6360.0	6354.9	6349.8	6352.3	6349.8	6342.1	6344.6
10°	6480.9	6488.6	6483.4	6480.9	6486.0	6483.4	6478.3	6475.7	6478.3	6470.6	6470.6
12.5°	6627.4	6624.8	6622.3	6624.8	6632.6	6632.6	6630.0	6632.6	6637.7	6640.3	6635.1
15°	6771.4	6776.5	6776.5	6776.5	6791.9	6804.8	6812.5	6817.6	6827.9	6830.5	6820.2
17.5°	6951.3	6951.3	6948.8	6951.3	6966.7	6987.3	6995.0	7005.3	7015.6	7023.3	7010.5
20°	7151.8	7157.0	7157.0	7162.1	7182.7	7205.8	7205.8	7211.0	7205.8	7211.0	7203.3
22.5°	7396.1	7411.5	7411.5	7414.1	7434.6	7462.9	7455.2	7462.9	7450.1	7460.3	7450.1
25°	7714.8	7738.0	7732.8	7732.8	7748.3	7766.3	7768.8	7784.2	7781.7	7794.5	7786.8
27.5°	8074.7	8110.7	8121.0	8118.4	8128.7	8146.7	8151.9	8169.9	8159.6	8169.9	8164.7
30°	8506.6	8522.1	8542.6	8550.3	8563.2	8581.2	8581.2	8583.8	8570.9	8586.3	8594.0
32.5°	8953.9	8982.2	9002.8	9049.1	9072.2	9085.1	9082.5	9087.6	9074.8	9095.3	9110.8
35°	9545.2	9565.8	9599.2	9635.2	9666.0	9663.5	9655.8	9658.3	9658.3	9676.3	9691.7
37.5°	10257.3	10262.5	10306.2	10357.6	10373.0	10357.6	10311.3	10301.0	10277.9	10301.0	10326.7
40°	11010.5	11028.5	11115.9	11149.4	11157.1	11128.8	11062.0	11023.4	10972.0	11000.3	11036.3
42.5°	11799.8	11835.8	11915.5	11974.6	12000.3	11982.3	11889.7	11830.6	11763.8	11779.2	11815.2
45°	12673.8	12717.5	12830.6	12887.2	12936.0	12907.8	12817.8	12727.8	12622.4	12630.1	12686.7
47.5°	13650.7	13694.4	13840.9	13936.1	13961.8	13956.6	13856.4	13733.0	13589.0	13583.9	13632.7
50°	14745.9	14789.6	14972.1	15118.6	15193.2	15185.5	15067.2	14892.4	14717.6	14720.1	14781.8
52.5°	15815.3	15869.3	16059.5	16311.4	16458.0	16563.4	16491.4	16326.9	16113.5	16118.6	16175.2
55°	16817.9	16907.9	17126.4	17468.3	17740.8	18036.4	18121.3	18116.1	17987.6	18023.6	18080.1
57.5°	17303.8	17437.4	17774.2	18314.1	18869.3	19470.9	19979.9	20360.4	20522.3	20766.6	20710.0
60°	16383.4	16596.8	17093.0	17887.3	18985.0	20239.6	21584.1	22897.7	24018.6	24864.4	24378.5
62.5°	13414.2	13691.8	14293.4	15311.4	16972.1	18979.9	21553.2	24658.7	28041.8	30083.0	28625.4
65°	8393.5	8681.4	9293.3	10383.3	12326.8	14823.0	18314.1	23460.7	29782.2	32859.4	29892.7
67.5°	3272.6	3429.4	3761.0	4457.7	5917.9	8139.0	11643.0	17483.7	25044.3	27741.0	24579.0
70°	1640.1	1655.6	1717.3	1845.8	2159.4	2804.7	4267.5	8105.6	14362.8	17347.5	13846.1
72.5°	1185.1	1187.7	1218.5	1275.1	1375.4	1519.3	1797.0	2480.8	4671.1	7139.0	4378.0
75°	907.5	917.8	935.8	966.6	1020.6	1092.6	1192.8	1429.3	1771.3	2054.0	1727.5
77.5°	699.2	719.8	732.7	760.9	794.4	843.2	871.5	961.5	1118.3	1177.4	1159.4
80°	532.1	550.1	578.4	601.6	624.7	647.8	637.5	678.7	760.9	809.8	784.1
82.5°	339.3	359.9	442.2	462.7	473.0	488.4	470.4	473.0	509.0	539.9	509.0
85°	218.5	231.4	280.2	305.9	308.5	318.8	311.1	293.1	293.1	267.4	300.8
87.5°	100.3	102.8	126.0	149.1	154.2	138.8	136.3	131.1	105.4	100.3	108.0
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°	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9	6210.9
2.5°	6208.4	6213.5	6216.1	6223.8	6226.4	6226.4	6228.9	6234.1
5°	6257.2	6264.9	6267.5	6277.8	6280.4	6277.8	6282.9	6285.5
7.5°	6344.6	6357.5	6362.6	6372.9	6365.2	6375.5	6378.0	6378.0
10°	6473.2	6486.0	6488.6	6498.9	6493.7	6498.9	6498.9	6493.7
12.5°	6642.8	6645.4	6637.7	6645.4	6635.1	6640.3	6632.6	6627.4
15°	6830.5	6822.8	6804.8	6804.8	6789.4	6791.9	6789.4	6786.8
17.5°	7013.0	6997.6	6984.7	6979.6	6966.7	6964.2	6956.5	6956.5
20°	7213.5	7205.8	7198.1	7187.8	7175.0	7162.1	7159.6	7164.7
22.5°	7455.2	7452.6	7452.6	7447.5	7429.5	7416.6	7408.9	7408.9
25°	7779.1	7756.0	7756.0	7753.4	7745.7	7738.0	7722.6	7730.3
27.5°	8144.2	8131.3	8141.6	8139.0	8131.3	8131.3	8121.0	8121.0
30°	8594.0	8588.9	8604.3	8591.5	8565.8	8563.2	8552.9	8540.1
32.5°	9113.3	9108.2	9131.3	9115.9	9074.8	9051.6	9031.1	9020.8
35°	9691.7	9694.3	9722.6	9712.3	9666.0	9650.6	9614.6	9609.5
37.5°	10324.2	10365.3	10414.1	10424.4	10385.9	10375.6	10337.0	10316.4
40°	11067.1	11121.1	11195.6	11213.6	11172.5	11164.8	11110.8	11082.5
42.5°	11858.9	11951.4	12044.0	12059.4	12018.3	11977.2	11925.7	11905.2
45°	12743.2	12853.8	12974.6	13005.5	12943.8	12894.9	12828.1	12828.1
47.5°	13735.5	13874.4	14010.6	14095.5	14038.9	13987.5	13907.8	13856.4
50°	14907.8	15098.0	15275.4	15362.8	15272.9	15175.2	15036.4	14990.1
52.5°	16378.3	16583.9	16738.2	16691.9	16553.1	16416.8	16265.2	16203.5
55°	18254.9	18324.3	18324.3	18149.5	17871.9	17643.1	17404.0	17324.3
57.5°	20602.0	20334.7	19923.4	19401.5	18746.0	18175.2	17789.6	17607.1
60°	23360.5	22075.1	20622.6	19195.8	18023.6	17057.0	16483.7	16221.5
62.5°	25198.5	21836.0	18925.9	16635.4	14948.9	13784.4	12992.6	12684.1
65°	23550.7	18211.2	14314.0	11573.5	9735.5	8550.3	7766.3	7478.3
67.5°	17249.8	11411.6	7622.3	5462.9	4002.7	3192.9	2871.5	2737.9
70°	7743.1	4018.1	2462.8	1922.9	1658.1	1521.9	1462.8	1442.2
72.5°	2334.2	1689.0	1424.2	1285.4	1180.0	1113.1	1064.3	1059.2
75°	1408.8	1172.3	1041.2	958.9	892.1	838.1	812.4	804.6
77.5°	984.6	861.2	799.5	740.4	689.0	647.8	624.7	606.7
80°	691.5	632.4	604.1	570.7	537.3	498.7	465.3	449.9
82.5°	462.7	449.9	449.9	429.3	401.0	365.0	298.2	282.8
85°	298.2	295.6	300.8	293.1	272.5	233.9	192.8	182.5
87.5°	138.8	141.4	156.8	154.2	149.1	123.4	97.7	92.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)