

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: P268728

Luminaire Tested: **GAN-AF-08-LED-U-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268728
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-08-LED-U-5NQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 46899.1 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 511
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

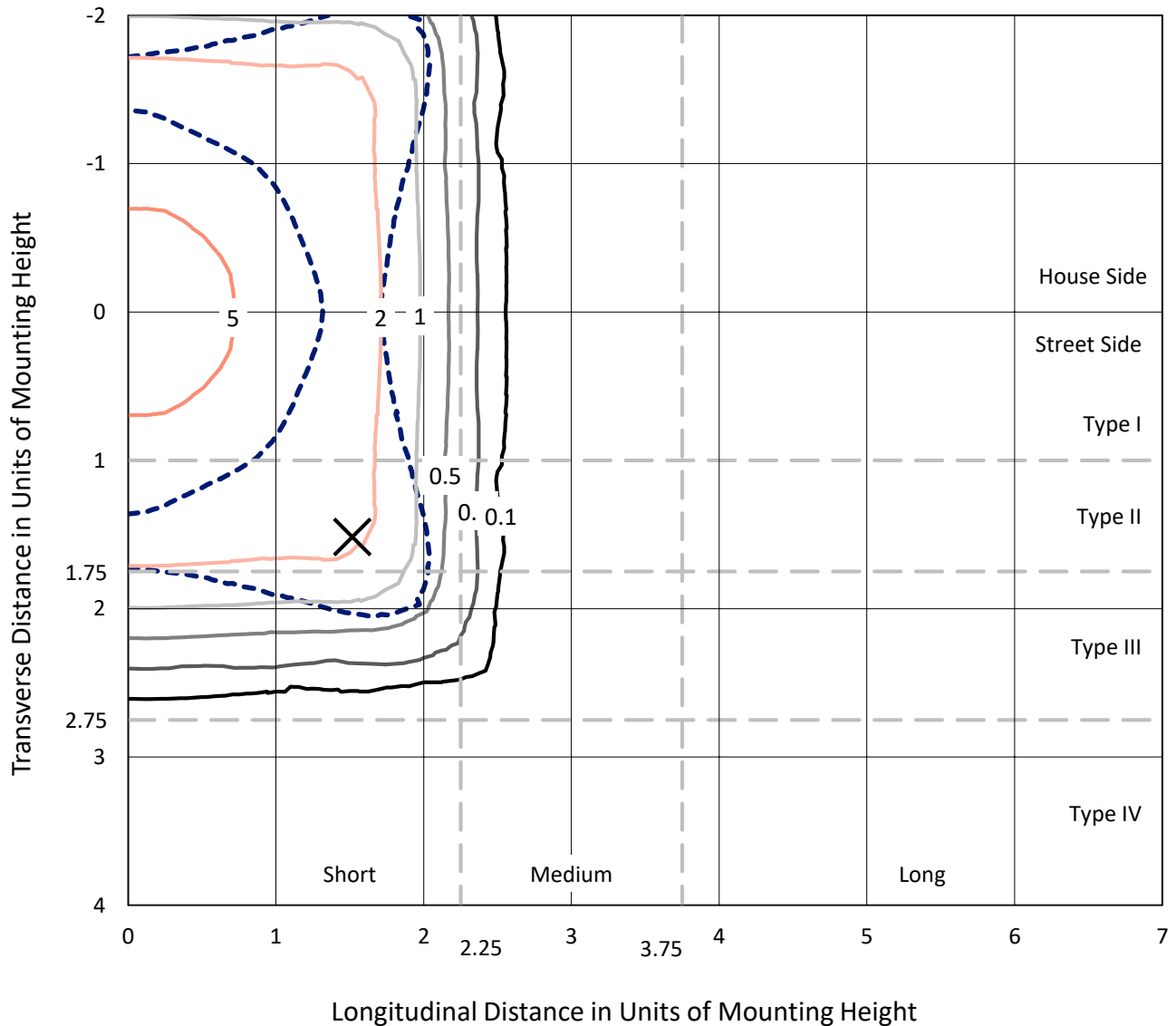


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

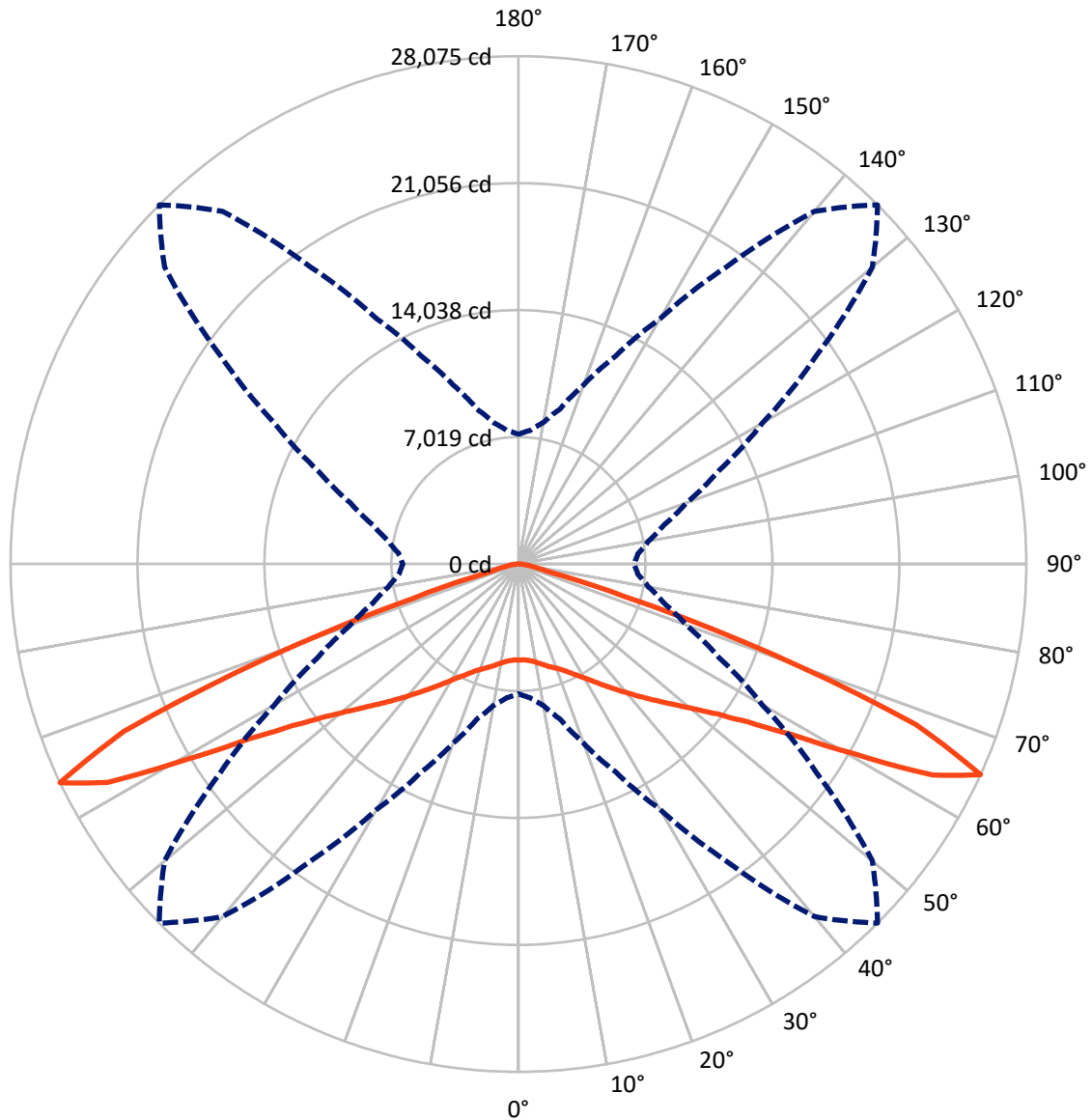


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - Full Cutoff

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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	23449.6	0.0	23449.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23449.6	0.0	23449.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	46899.1	0.0	46899.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.2	1.1
10°-20°	1658.8	3.5
20°-30°	3101.7	6.6
30°-40°	5245.9	11.2
40°-50°	8577.6	18.3
50°-60°	13639.7	29.1
60°-70°	12329.4	26.3
70°-80°	1560.4	3.3
80°-90°	268.4	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°	46899.1	100.0
0°-180°	46899.1	100.0

Coefficient of Utilization



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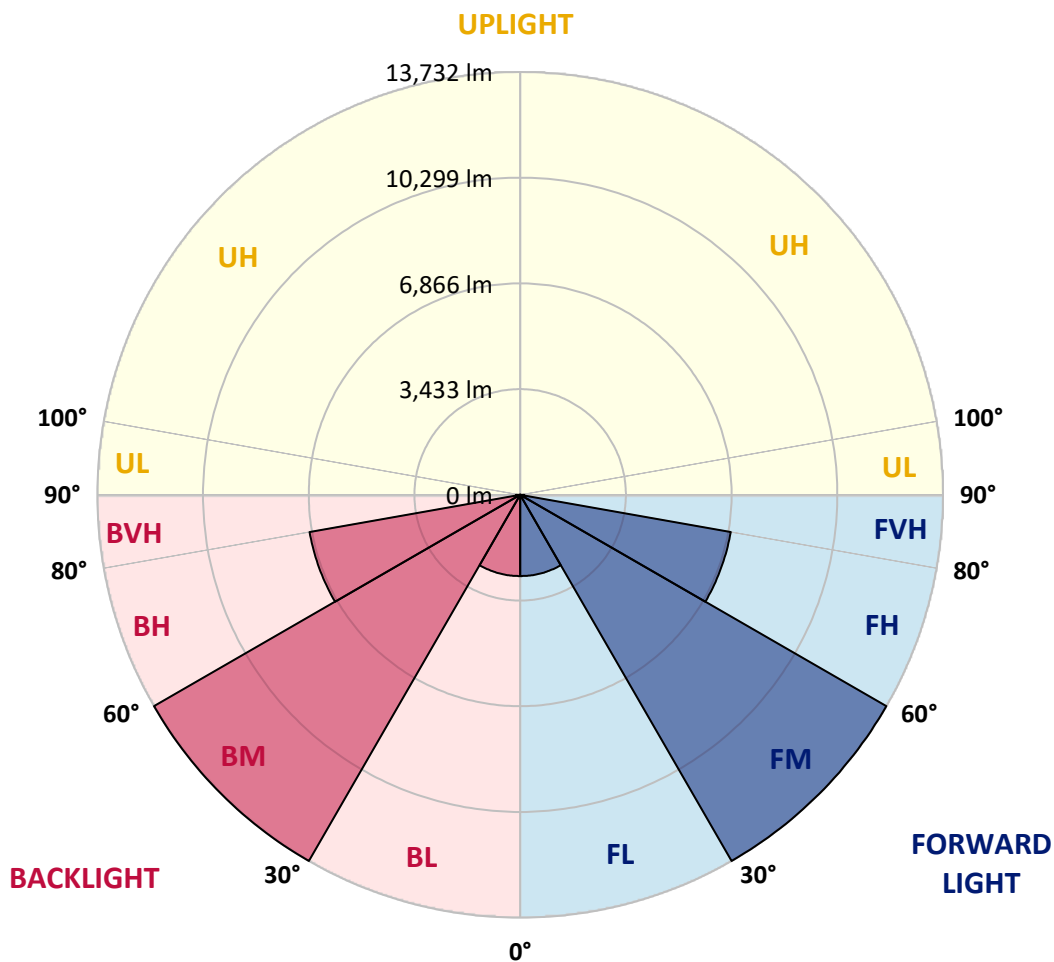
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2638.9	5.6			
FM	(30°-60°)	13731.6	29.3			
FH	(60°-80°)	6944.9	14.8			G3/7500
FVH	(80°-90°)	134.2	0.3			G2/225
BL	(0°-30°)	2638.9	5.6	B4/5000		
BM	(30°-60°)	13731.6	29.3	B5		
BH	(60°-80°)	6944.9	14.8	B5		G3/7500
BVH	(80°-90°)	134.2	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6
2.5°	5311.0	5315.5	5319.9	5315.5	5319.9	5313.3	5308.9	5315.5	5308.9	5302.2	5306.6
5°	5357.2	5359.4	5359.4	5352.8	5359.4	5354.9	5348.4	5357.2	5350.6	5343.9	5348.4
7.5°	5434.0	5442.8	5436.3	5429.6	5434.0	5429.6	5425.3	5427.5	5425.3	5418.7	5420.9
10°	5537.3	5543.9	5539.5	5537.3	5541.6	5539.5	5535.0	5532.9	5535.0	5528.4	5528.4
12.5°	5662.5	5660.3	5658.2	5660.3	5666.9	5666.9	5664.7	5666.9	5671.3	5673.4	5669.1
15°	5785.4	5789.8	5789.8	5789.8	5803.1	5814.0	5820.7	5825.0	5833.9	5836.0	5827.2
17.5°	5939.2	5939.2	5937.1	5939.2	5952.3	5970.0	5976.6	5985.3	5994.2	6000.8	5989.8
20°	6110.6	6114.9	6114.9	6119.3	6137.0	6156.8	6156.8	6161.0	6156.8	6161.0	6154.5
22.5°	6319.2	6332.4	6332.4	6334.6	6352.2	6376.3	6369.7	6376.3	6365.4	6374.2	6365.4
25°	6591.7	6611.3	6606.9	6606.9	6620.1	6635.5	6637.8	6651.0	6648.6	6659.7	6653.0
27.5°	6899.2	6929.9	6938.7	6936.4	6945.2	6960.5	6965.0	6980.4	6971.6	6980.4	6976.0
30°	7268.0	7281.3	7298.9	7305.5	7316.4	7331.7	7331.7	7334.0	7323.1	7336.2	7342.7
32.5°	7650.2	7674.4	7692.0	7731.5	7751.4	7762.3	7760.1	7764.5	7753.5	7771.1	7784.3
35°	8155.5	8173.0	8201.5	8232.3	8258.7	8256.5	8249.9	8252.1	8252.1	8267.6	8280.7
37.5°	8764.0	8768.3	8805.6	8849.6	8862.8	8849.6	8809.9	8801.2	8781.6	8801.2	8823.2
40°	9407.5	9422.9	9497.5	9526.0	9532.6	9508.5	9451.3	9418.4	9374.5	9398.6	9429.4
42.5°	10081.8	10112.5	10180.6	10231.2	10253.2	10237.8	10158.7	10108.2	10051.0	10064.3	10095.0
45°	10828.6	10865.9	10962.6	11010.9	11052.7	11028.4	10951.5	10874.7	10784.6	10791.2	10839.6
47.5°	11663.2	11700.6	11825.7	11907.0	11929.0	11924.6	11838.9	11733.5	11610.6	11606.1	11647.9
50°	12598.9	12636.3	12792.3	12917.4	12981.0	12974.5	12873.5	12724.1	12574.7	12577.0	12629.7
52.5°	13512.7	13558.7	13721.3	13936.6	14061.8	14151.8	14090.4	13949.8	13767.5	13771.8	13820.2
55°	14369.3	14446.2	14632.9	14925.0	15157.8	15410.5	15482.8	15478.4	15368.7	15399.5	15447.8
57.5°	14784.5	14898.6	15186.3	15647.7	16122.1	16636.0	17070.9	17395.9	17534.3	17743.1	17694.8
60°	13998.1	14180.4	14604.3	15283.0	16220.9	17292.7	18441.6	19563.8	20521.6	21244.1	20829.1
62.5°	11461.1	11698.4	12212.4	13082.1	14501.1	16216.6	18415.2	21068.5	23959.1	25703.1	24457.7
65°	7171.4	7417.5	7940.2	8871.5	10532.1	12664.8	15647.7	20044.9	25446.1	28075.2	25540.5
67.5°	2796.2	2930.1	3213.4	3808.6	5056.3	6954.0	9947.8	14938.2	21397.9	23702.0	21000.3
70°	1401.4	1414.6	1467.2	1577.1	1844.9	2396.4	3646.1	6925.5	12271.7	14821.8	11830.1
72.5°	1012.6	1014.7	1041.1	1089.5	1175.2	1298.1	1535.4	2119.6	3991.0	6099.6	3740.6
75°	775.3	784.1	799.5	825.9	872.0	933.5	1019.1	1221.2	1513.4	1755.0	1476.1
77.5°	597.5	615.0	625.9	650.2	678.7	720.4	744.7	821.5	955.4	1006.0	990.7
80°	454.6	470.1	494.2	514.0	533.8	553.5	544.7	579.9	650.2	691.9	670.0
82.5°	290.0	307.5	377.7	395.3	404.1	417.4	401.9	404.1	434.9	461.3	434.9
85°	186.7	197.6	239.4	261.3	263.6	272.4	265.8	250.4	250.4	228.3	256.9
87.5°	85.7	87.9	107.6	127.4	131.8	118.5	116.4	112.0	90.1	85.7	92.3
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°	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6
2.5°	5304.4	5308.9	5311.0	5317.6	5319.9	5319.9	5322.1	5326.4
5°	5346.3	5352.8	5354.9	5363.8	5365.9	5363.8	5368.1	5370.3
7.5°	5420.9	5431.8	5436.3	5445.0	5438.5	5447.2	5449.4	5449.4
10°	5530.8	5541.6	5543.9	5552.7	5548.3	5552.7	5552.7	5548.3
12.5°	5675.8	5677.8	5671.3	5677.8	5669.1	5673.4	5666.9	5662.5
15°	5836.0	5829.5	5814.0	5814.0	5800.9	5803.1	5800.9	5798.6
17.5°	5992.0	5978.8	5967.8	5963.4	5952.3	5950.3	5943.6	5943.6
20°	6163.4	6156.8	6150.1	6141.4	6130.4	6119.3	6117.2	6121.5
22.5°	6369.7	6367.5	6367.5	6363.1	6347.9	6336.9	6330.3	6330.3
25°	6646.5	6626.7	6626.7	6624.6	6618.0	6611.3	6598.2	6604.8
27.5°	6958.5	6947.4	6956.2	6954.0	6947.4	6947.4	6938.7	6938.7
30°	7342.7	7338.3	7351.5	7340.6	7318.6	7316.4	7307.6	7296.7
32.5°	7786.5	7782.0	7801.8	7788.7	7753.5	7733.8	7716.3	7707.4
35°	8280.7	8282.9	8307.0	8298.3	8258.7	8245.5	8214.8	8210.4
37.5°	8820.9	8856.1	8897.9	8906.6	8873.6	8865.0	8832.0	8814.3
40°	9455.7	9501.9	9565.6	9581.1	9545.7	9539.2	9493.1	9468.9
42.5°	10132.3	10211.4	10290.4	10303.6	10268.4	10233.3	10189.5	10171.9
45°	10887.8	10982.3	11085.5	11111.9	11059.3	11017.4	10960.4	10960.4
47.5°	11735.6	11854.4	11970.8	12043.1	11994.9	11951.1	11882.9	11838.9
50°	12737.2	12899.8	13051.4	13126.0	13049.1	12965.7	12847.1	12807.6
52.5°	13993.6	14169.3	14301.1	14261.6	14143.0	14026.7	13897.0	13844.3
55°	15597.1	15656.4	15656.4	15507.0	15269.7	15074.4	14870.1	14802.0
57.5°	17602.5	17374.1	17022.6	16576.8	16016.6	15529.0	15199.5	15043.6
60°	19959.4	18861.1	17620.1	16401.1	15399.5	14573.6	14083.7	13859.7
62.5°	21529.8	18656.8	16170.4	14213.3	12772.5	11777.5	11101.0	10837.3
65°	20121.9	15559.7	12230.0	9888.5	8318.0	7305.5	6635.5	6389.6
67.5°	14738.3	9750.2	6512.5	4667.6	3419.8	2728.1	2453.5	2339.2
70°	6615.7	3433.1	2104.2	1643.0	1416.7	1300.2	1249.8	1232.3
72.5°	1994.3	1443.0	1216.8	1098.3	1008.2	951.0	909.4	905.0
75°	1203.6	1001.6	889.6	819.3	762.2	716.0	694.1	687.6
77.5°	841.3	735.8	683.2	632.5	588.7	553.5	533.8	518.3
80°	590.8	540.3	516.2	487.6	459.0	426.2	397.6	384.4
82.5°	395.3	384.4	384.4	366.8	342.7	311.9	254.8	241.6
85°	254.8	252.7	256.9	250.4	232.8	199.9	164.7	155.9
87.5°	118.5	120.8	133.9	131.8	127.4	105.5	83.5	79.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)