

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: P268805

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268805
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 47690.2 lumens
Efficiency: N/A
Efficacy: 95.2 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 - G3

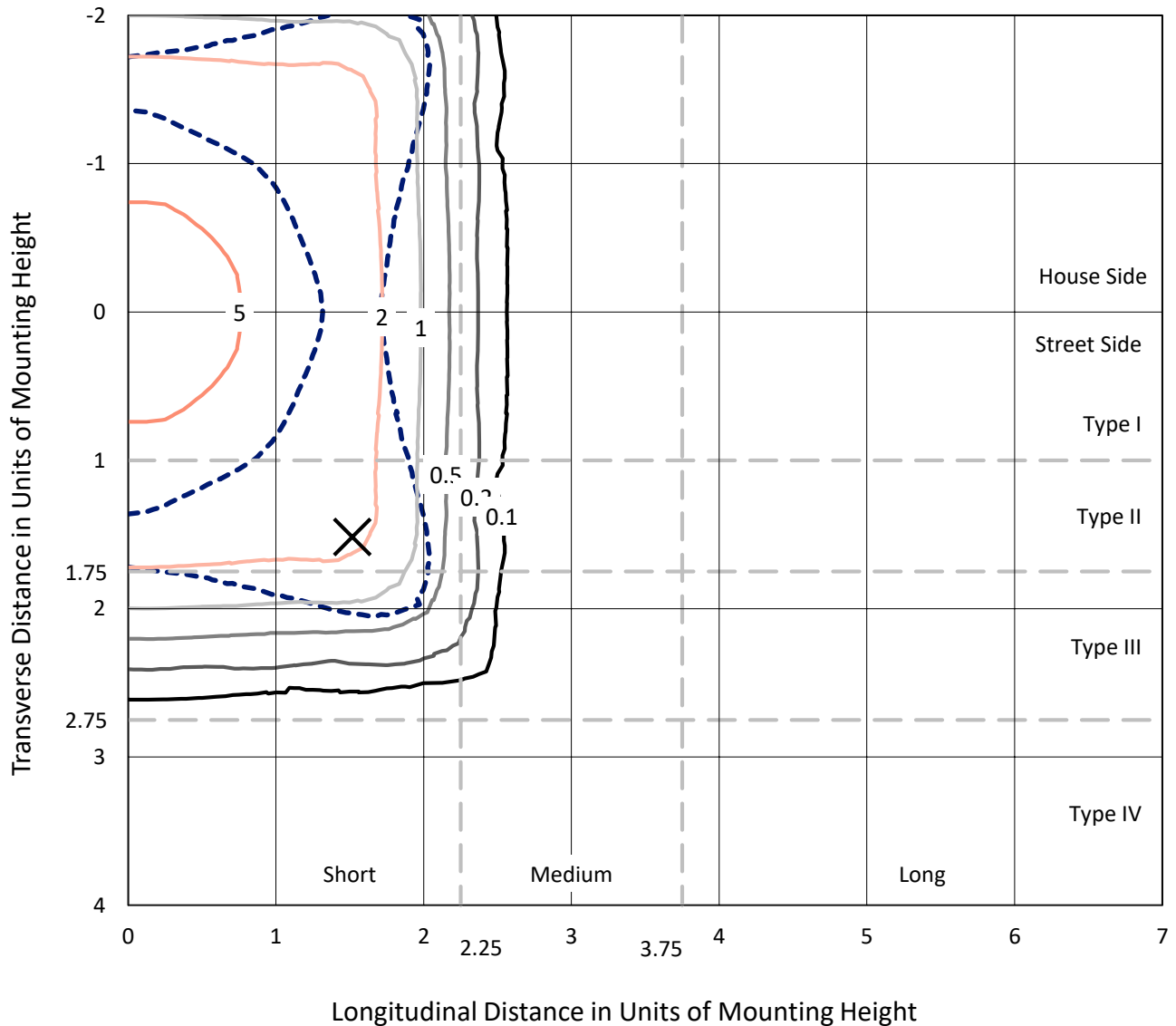
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

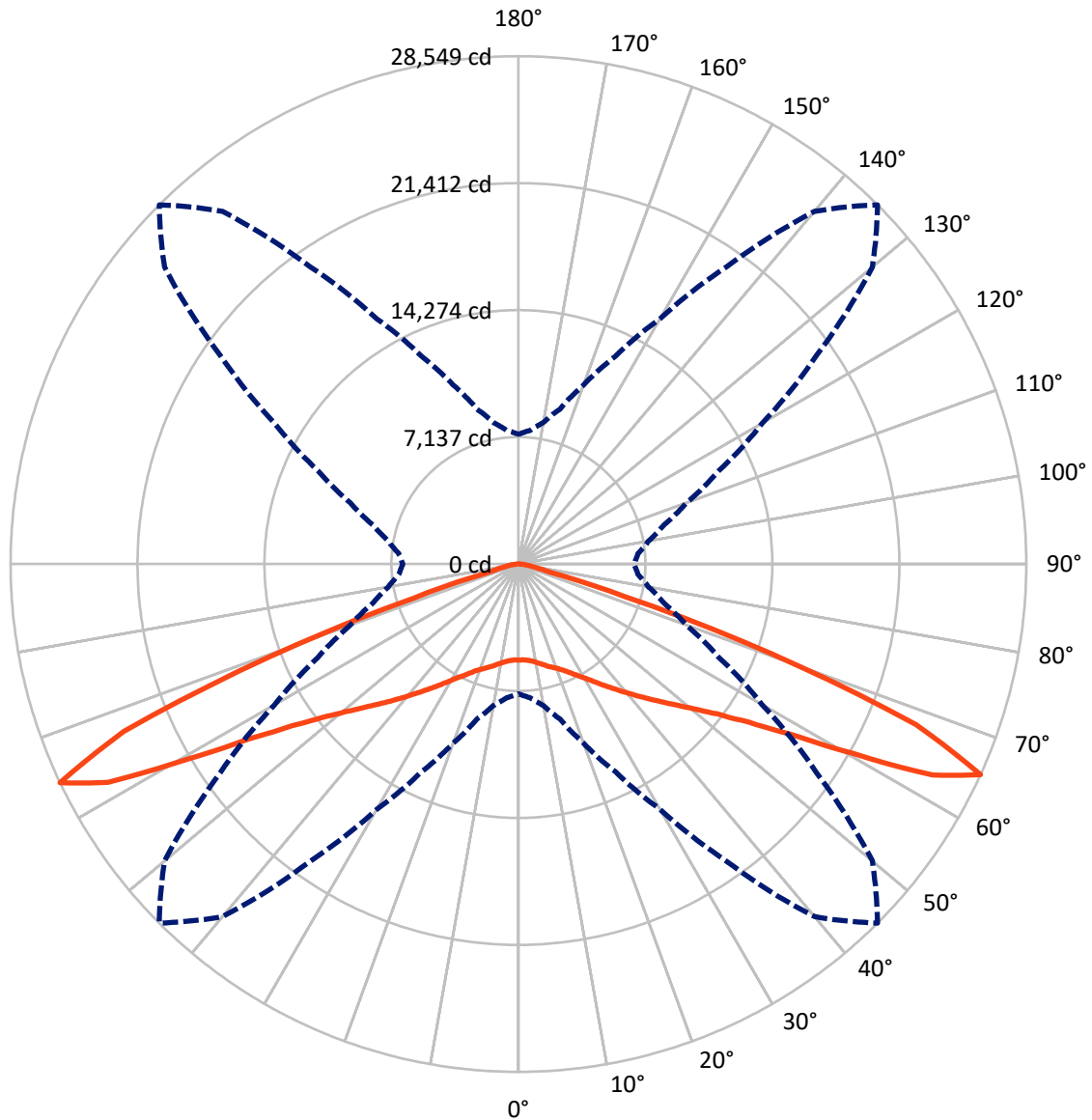
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	23845.1	0.0	23845.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23845.1	0.0	23845.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	47690.2	0.0	47690.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.0	1.1
10°-20°	1686.8	3.5
20°-30°	3154.0	6.6
30°-40°	5334.4	11.2
40°-50°	8722.3	18.3
50°-60°	13869.8	29.1
60°-70°	12537.4	26.3
70°-80°	1586.7	3.3
80°-90°	272.9	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°	47690.2	100.0
0°-180°	47690.2	100.0



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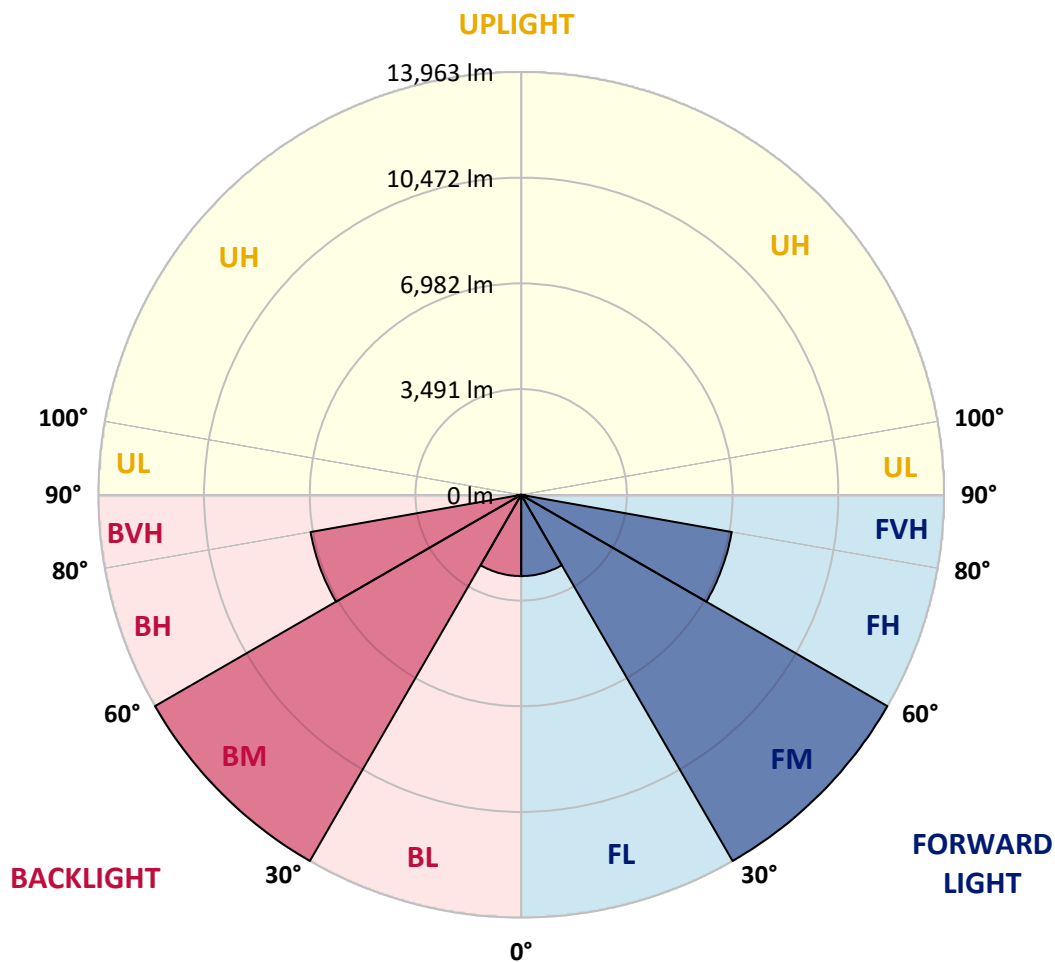
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2683.4	5.6			
FM	(30°-60°)	13963.2	29.3			
FH	(60°-80°)	7062.0	14.8			G3/7500
FVH	(80°-90°)	136.5	0.3			G2/225
BL	(0°-30°)	2683.4	5.6	B4/5000		
BM	(30°-60°)	13963.2	29.3	B5		
BH	(60°-80°)	7062.0	14.8	B5		G3/7500
BVH	(80°-90°)	136.5	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°	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2
2.5°	5400.6	5405.1	5409.6	5405.1	5409.6	5402.9	5398.5	5405.1	5398.5	5391.6	5396.2
5°	5447.5	5449.7	5449.7	5443.1	5449.7	5445.3	5438.6	5447.5	5440.9	5434.1	5438.6
7.5°	5525.7	5534.6	5527.9	5521.3	5525.7	5521.3	5516.9	5518.9	5516.9	5510.1	5512.3
10°	5630.7	5637.5	5632.9	5630.7	5635.2	5632.9	5628.5	5626.3	5628.5	5621.8	5621.8
12.5°	5758.0	5755.8	5753.6	5755.8	5762.4	5762.4	5760.2	5762.4	5766.8	5769.2	5764.8
15°	5883.1	5887.5	5887.5	5887.5	5901.0	5912.1	5918.8	5923.2	5932.1	5934.5	5925.5
17.5°	6039.5	6039.5	6037.1	6039.5	6052.8	6070.7	6077.5	6086.3	6095.3	6101.9	6090.8
20°	6213.7	6218.1	6218.1	6222.6	6240.4	6260.6	6260.6	6265.0	6260.6	6265.0	6258.3
22.5°	6425.8	6439.2	6439.2	6441.4	6459.4	6483.8	6477.1	6483.8	6472.7	6481.7	6472.7
25°	6702.8	6722.8	6718.5	6718.5	6731.8	6747.4	6749.7	6763.1	6760.9	6772.1	6765.3
27.5°	7015.5	7046.8	7055.6	7053.4	7062.4	7078.0	7082.4	7098.0	7089.2	7098.0	7093.6
30°	7390.6	7404.1	7421.9	7428.7	7439.9	7455.5	7455.5	7457.6	7446.5	7460.0	7466.6
32.5°	7779.3	7803.8	7821.7	7862.0	7882.1	7893.2	7891.0	7895.5	7884.3	7902.2	7915.5
35°	8293.1	8310.8	8340.0	8371.2	8398.1	8395.7	8389.1	8391.2	8391.2	8407.0	8420.4
37.5°	8911.7	8916.1	8954.1	8998.9	9012.2	8998.9	8958.6	8949.8	8929.6	8949.8	8972.0
40°	9566.1	9581.9	9657.7	9686.8	9693.4	9668.8	9610.7	9577.3	9532.6	9557.2	9588.5
42.5°	10251.8	10283.1	10352.3	10403.7	10426.1	10410.4	10330.0	10278.6	10220.6	10234.0	10265.2
45°	11011.2	11049.2	11147.4	11196.7	11239.1	11214.5	11136.3	11058.1	10966.6	10973.2	11022.5
47.5°	11860.0	11898.0	12025.3	12107.9	12130.3	12125.7	12038.6	11931.5	11806.3	11801.9	11844.3
50°	12811.4	12849.4	13007.9	13135.2	13200.1	13193.3	13090.6	12938.7	12786.8	12789.1	12842.7
52.5°	13740.6	13787.5	13952.7	14171.7	14299.0	14390.6	14328.0	14185.0	13999.6	14004.1	14053.3
55°	14611.7	14689.9	14879.6	15176.8	15413.5	15670.4	15744.1	15739.6	15628.0	15659.2	15708.3
57.5°	15033.8	15149.9	15442.6	15911.6	16394.0	16916.6	17358.8	17689.5	17830.2	18042.3	17993.2
60°	14234.3	14419.6	14850.6	15540.8	16494.5	17584.4	18752.6	19894.0	20867.7	21602.5	21180.3
62.5°	11654.5	11895.6	12418.3	13302.8	14745.7	16490.0	18725.8	21423.9	24363.2	26136.5	24870.1
65°	7292.4	7542.6	8074.1	9021.1	10709.8	12878.5	15911.6	20383.0	25875.3	28548.8	25971.3
67.5°	2843.2	2979.5	3267.7	3873.0	5141.5	7071.3	10115.5	15190.1	21758.8	24101.9	21354.6
70°	1425.0	1438.4	1491.9	1603.7	1876.2	2436.7	3707.7	7042.3	12478.6	15071.8	12029.7
72.5°	1029.6	1032.0	1058.7	1107.8	1194.9	1320.0	1561.3	2155.4	4058.4	6202.4	3803.7
75°	788.4	797.3	813.0	839.7	886.6	949.2	1036.4	1241.8	1538.8	1784.6	1500.9
77.5°	607.6	625.4	636.5	661.2	690.2	732.6	757.1	835.3	971.5	1023.0	1007.3
80°	462.4	478.0	502.5	522.6	542.8	562.9	554.0	589.6	661.2	703.6	681.3
82.5°	294.9	312.7	384.1	402.0	411.0	424.4	408.6	411.0	442.2	469.0	442.2
85°	189.8	201.0	243.4	265.8	268.1	276.9	270.3	254.6	254.6	232.3	261.3
87.5°	87.1	89.3	109.5	129.5	133.9	120.6	118.3	113.9	91.5	87.1	93.9
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°	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2	5396.2
2.5°	5394.0	5398.5	5400.6	5407.3	5409.6	5409.6	5411.7	5416.3
5°	5436.4	5443.1	5445.3	5454.2	5456.5	5454.2	5458.7	5460.9
7.5°	5512.3	5523.5	5527.9	5537.0	5530.1	5539.0	5541.4	5541.4
10°	5624.0	5635.2	5637.5	5646.3	5641.9	5646.3	5646.3	5641.9
12.5°	5771.4	5773.6	5766.8	5773.6	5764.8	5769.2	5762.4	5758.0
15°	5934.5	5927.7	5912.1	5912.1	5898.7	5901.0	5898.7	5896.5
17.5°	6093.1	6079.5	6068.5	6064.0	6052.8	6050.7	6043.8	6043.8
20°	6267.2	6260.6	6253.8	6244.8	6233.8	6222.6	6220.4	6224.9
22.5°	6477.1	6475.0	6475.0	6470.5	6454.9	6443.7	6437.0	6437.0
25°	6758.6	6738.5	6738.5	6736.3	6729.7	6722.8	6709.5	6716.2
27.5°	7075.8	7064.6	7073.6	7071.3	7064.6	7064.6	7055.6	7055.6
30°	7466.6	7462.2	7475.5	7464.3	7442.1	7439.9	7430.9	7419.7
32.5°	7917.8	7913.3	7933.4	7920.0	7884.3	7864.2	7846.3	7837.4
35°	8420.4	8422.6	8447.1	8438.1	8398.1	8384.6	8353.3	8348.8
37.5°	8969.8	9005.5	9048.0	9056.9	9023.4	9014.4	8981.0	8963.1
40°	9615.3	9662.2	9726.9	9742.6	9706.8	9700.2	9653.2	9628.8
42.5°	10303.2	10383.6	10463.9	10477.4	10441.7	10406.0	10361.3	10343.4
45°	11071.5	11167.5	11272.6	11299.3	11245.7	11203.3	11145.2	11145.2
47.5°	11933.7	12054.3	12172.7	12246.4	12197.2	12152.5	12083.3	12038.6
50°	12952.1	13117.4	13271.5	13347.5	13269.4	13184.5	13063.8	13023.5
52.5°	14229.7	14408.5	14542.4	14502.1	14381.5	14263.2	14131.4	14077.9
55°	15860.1	15920.5	15920.5	15768.6	15527.5	15328.6	15120.9	15051.6
57.5°	17899.4	17667.1	17309.7	16856.3	16286.8	15790.9	15455.9	15297.3
60°	20295.9	19179.3	17917.2	16677.7	15659.2	14819.3	14321.3	14093.5
62.5°	21893.0	18971.5	16443.1	14453.1	12987.9	11976.2	11288.2	11020.1
65°	20461.2	15822.1	12436.2	10055.3	8458.4	7428.7	6747.4	6497.4
67.5°	14987.0	9914.6	6622.3	4746.3	3477.6	2774.1	2494.9	2378.7
70°	6727.3	3491.1	2139.8	1670.7	1440.6	1322.2	1270.8	1253.0
72.5°	2028.1	1467.4	1237.3	1116.8	1025.1	967.1	924.6	920.3
75°	1224.0	1018.5	904.6	833.1	775.1	728.2	705.8	699.2
77.5°	855.5	748.2	694.6	643.2	598.6	562.9	542.8	527.1
80°	600.8	549.5	524.9	495.9	466.8	433.3	404.2	390.9
82.5°	402.0	390.9	390.9	372.9	348.5	317.1	259.2	245.6
85°	259.2	256.8	261.3	254.6	236.8	203.2	167.5	158.6
87.5°	120.6	122.9	136.3	133.9	129.5	107.2	84.9	80.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)