

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: P193396

Luminaire Tested: **GAN-AF-08-LED-U-5NQ-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193396
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-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 40154 lumens
Efficiency: N/A
Efficacy: 90.2 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): 445
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

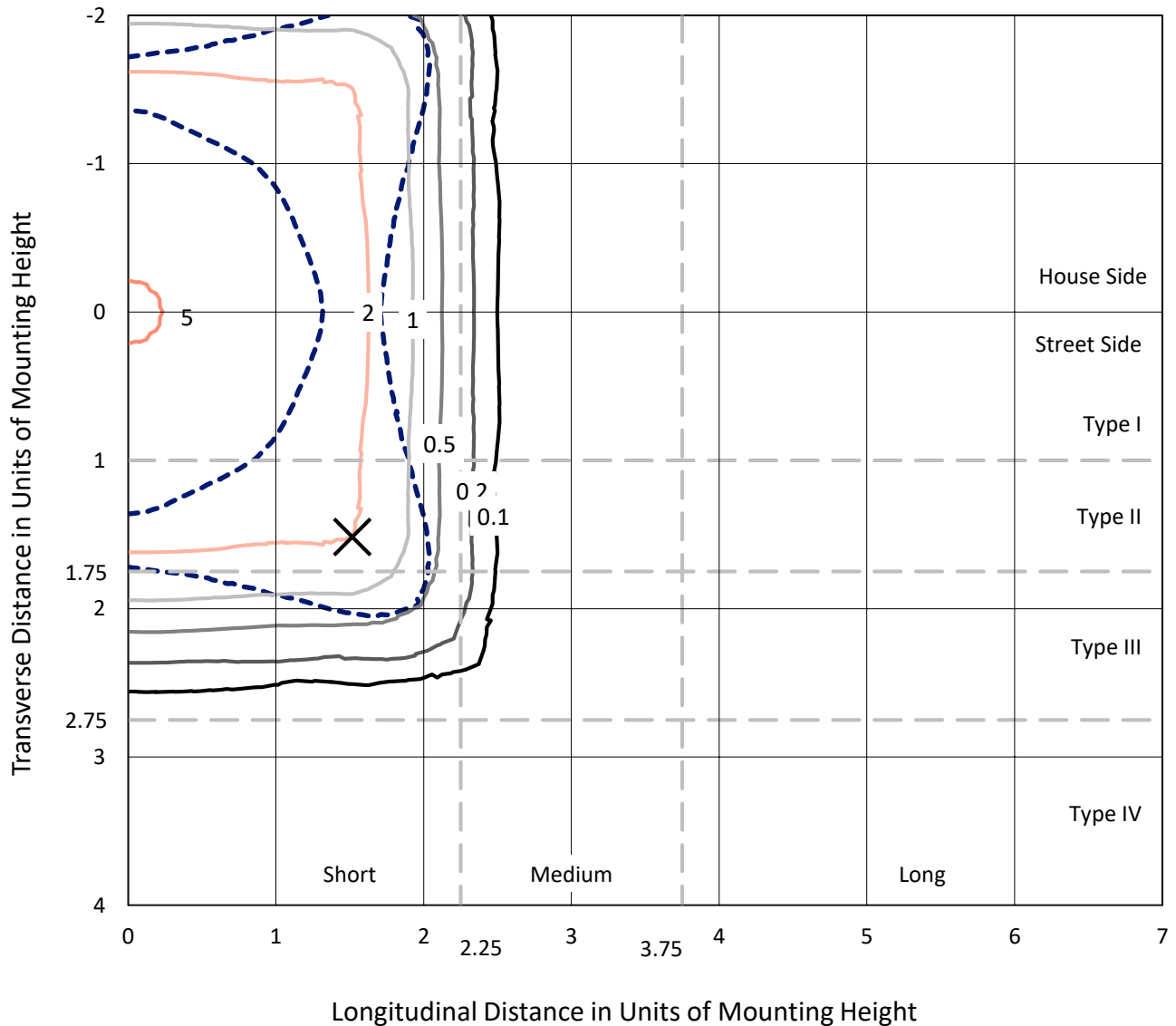


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

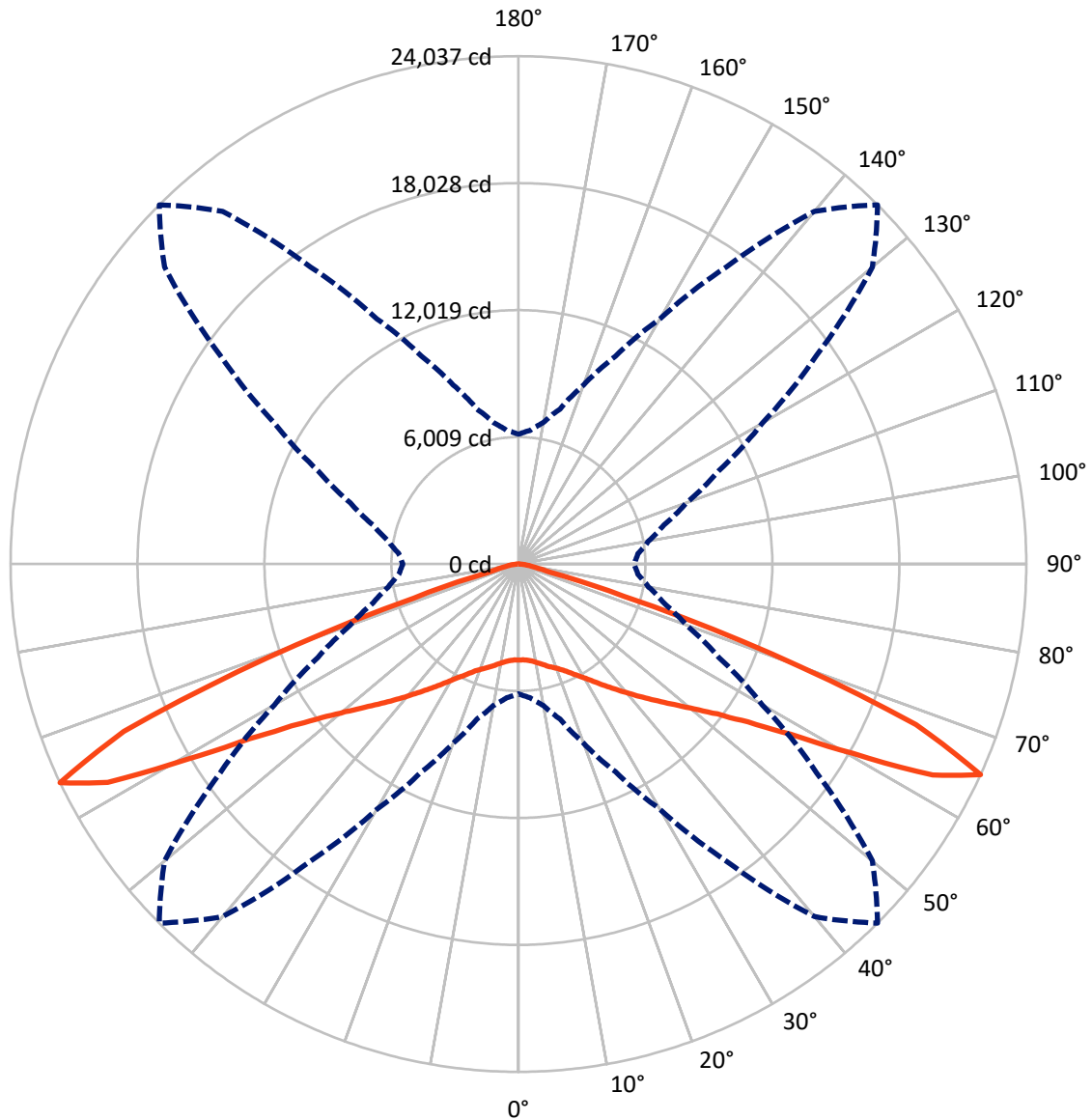


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Full Cutoff

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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	20077.0	0.0	20077.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20077.0	0.0	20077.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40154.0	0.0	40154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	1.1
10°-20°	1420.3	3.5
20°-30°	2655.6	6.6
30°-40°	4491.4	11.2
40°-50°	7343.9	18.3
50°-60°	11678.0	29.1
60°-70°	10556.2	26.3
70°-80°	1335.9	3.3
80°-90°	229.8	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°	40154.0	100.0
0°-180°	40154.0	100.0

Coefficient of Utilization



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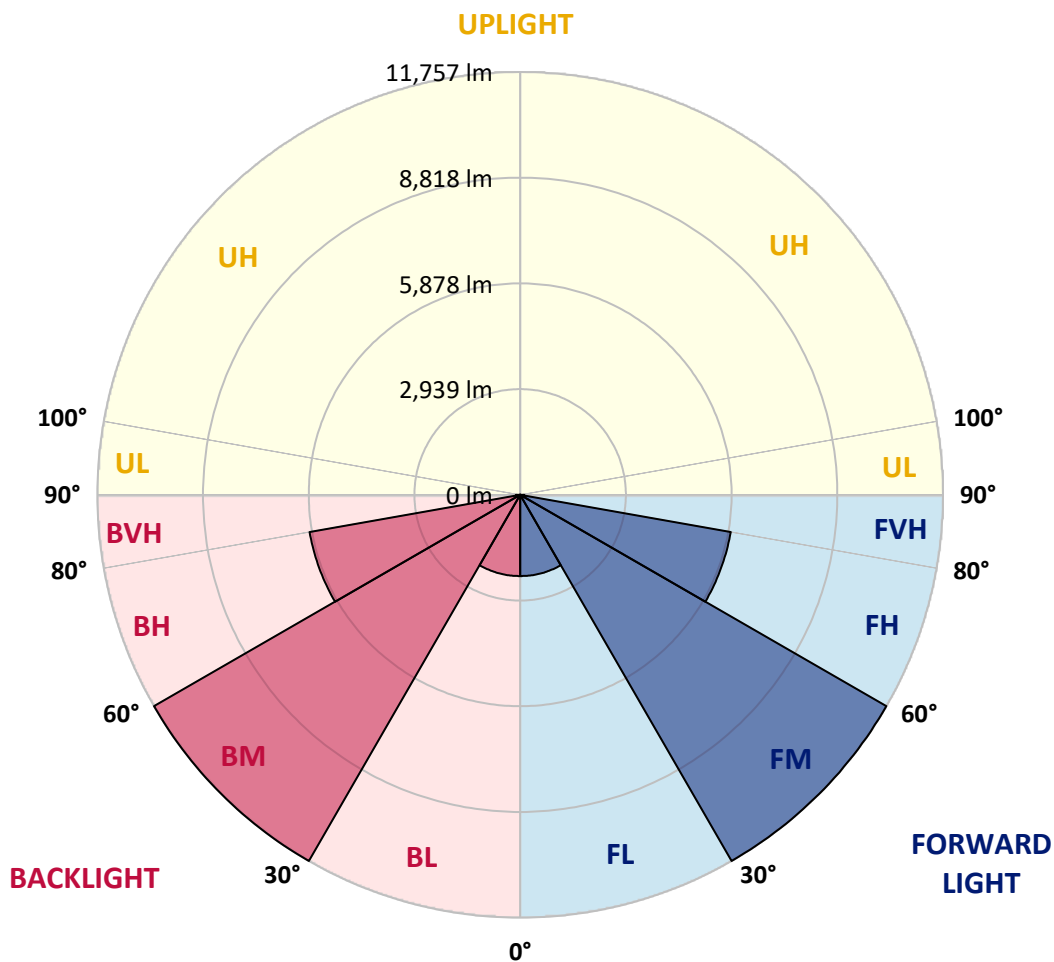
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.4	5.6			
FM (30°-60°)	11756.7	29.3			
FH (60°-80°)	5946.0	14.8			G3/7500
FVH (80°-90°)	114.9	0.3			G2/225
BL (0°-30°)	2259.4	5.6	B3/2500		
BM (30°-60°)	11756.7	29.3	B5		
BH (60°-80°)	5946.0	14.8	B5		G3/7500
BVH (80°-90°)	114.9	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°	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4
2.5°	4547.2	4551.0	4554.7	4551.0	4554.7	4549.1	4545.3	4551.0	4545.3	4539.7	4543.4
5°	4586.7	4588.6	4588.6	4582.9	4588.6	4584.8	4579.2	4586.7	4581.1	4575.4	4579.2
7.5°	4652.5	4660.0	4654.4	4648.8	4652.5	4648.8	4645.0	4646.9	4645.0	4639.4	4641.2
10°	4740.9	4746.5	4742.8	4740.9	4744.7	4742.8	4739.0	4737.1	4739.0	4733.4	4733.4
12.5°	4848.1	4846.2	4844.3	4846.2	4851.9	4851.9	4850.0	4851.9	4855.6	4857.5	4853.7
15°	4953.4	4957.2	4957.2	4957.2	4968.5	4977.9	4983.5	4987.3	4994.8	4996.7	4989.1
17.5°	5085.0	5085.0	5083.2	5085.0	5096.3	5111.4	5117.0	5124.5	5132.1	5137.7	5128.3
20°	5231.7	5235.5	5235.5	5239.3	5254.3	5271.2	5271.2	5275.0	5271.2	5275.0	5269.3
22.5°	5410.4	5421.7	5421.7	5423.6	5438.6	5459.3	5453.6	5459.3	5449.9	5457.4	5449.9
25°	5643.6	5660.5	5656.7	5656.7	5668.0	5681.2	5683.1	5694.4	5692.5	5701.9	5696.2
27.5°	5906.9	5933.2	5940.7	5938.8	5946.3	5959.5	5963.3	5976.4	5968.9	5976.4	5972.7
30°	6222.8	6234.1	6249.1	6254.8	6264.2	6277.3	6277.3	6279.2	6269.8	6281.1	6286.7
32.5°	6550.0	6570.7	6585.7	6619.6	6636.5	6645.9	6644.0	6647.8	6638.4	6653.4	6664.7
35°	6982.5	6997.6	7022.0	7048.4	7070.9	7069.0	7063.4	7065.3	7065.3	7078.4	7089.7
37.5°	7503.5	7507.2	7539.2	7576.8	7588.1	7576.8	7542.9	7535.4	7518.5	7535.4	7554.2
40°	8054.5	8067.6	8131.6	8156.0	8161.7	8141.0	8092.1	8063.9	8026.3	8046.9	8073.3
42.5°	8631.8	8658.1	8716.4	8759.7	8778.5	8765.3	8697.6	8654.4	8605.5	8616.8	8643.1
45°	9271.2	9303.2	9385.9	9427.3	9463.0	9442.3	9376.5	9310.7	9233.6	9239.2	9280.6
47.5°	9985.8	10017.8	10125.0	10194.5	10213.4	10209.6	10136.2	10046.0	9940.7	9936.9	9972.6
50°	10786.9	10818.9	10952.4	11059.6	11114.1	11108.5	11022.0	10894.1	10766.2	10768.1	10813.3
52.5°	11569.2	11608.7	11747.9	11932.2	12039.4	12116.5	12063.8	11943.5	11787.4	11791.1	11832.5
55°	12302.7	12368.5	12528.3	12778.4	12977.8	13194.0	13256.1	13252.3	13158.3	13184.6	13226.0
57.5°	12658.1	12755.9	13002.2	13397.1	13803.4	14243.4	14615.8	14894.1	15012.6	15191.2	15149.8
60°	11984.8	12140.9	12503.9	13085.0	13888.0	14805.7	15789.2	16750.2	17570.1	18188.8	17833.4
62.5°	9812.8	10015.9	10455.9	11200.6	12415.5	13884.2	15766.7	18038.4	20513.2	22006.4	20940.1
65°	6140.0	6350.7	6798.2	7595.6	9017.3	10843.3	13397.1	17162.0	21786.4	24037.4	21867.2
67.5°	2394.0	2508.7	2751.3	3260.9	4329.1	5953.9	8517.1	12789.7	18320.5	20293.2	17980.1
70°	1199.8	1211.1	1256.2	1350.2	1579.7	2051.7	3121.7	5929.4	10506.7	12690.1	10128.7
72.5°	866.9	868.8	891.4	932.8	1006.1	1111.4	1314.5	1814.7	3417.0	5222.3	3202.6
75°	663.8	671.4	684.5	707.1	746.6	799.2	872.6	1045.6	1295.7	1502.6	1263.7
77.5°	511.5	526.6	536.0	556.6	581.1	616.8	637.5	703.3	818.0	861.3	848.1
80°	389.3	402.4	423.1	440.1	457.0	473.9	466.4	496.5	556.6	592.4	573.6
82.5°	248.2	263.3	323.5	338.5	346.0	357.3	344.1	346.0	372.4	394.9	372.4
85°	159.8	169.3	205.0	223.8	225.7	233.2	227.5	214.4	214.4	195.6	220.0
87.5°	73.3	75.2	92.1	109.1	112.8	101.6	99.7	95.9	77.1	73.3	79.0
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°	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4
2.5°	4541.6	4545.3	4547.2	4552.8	4554.7	4554.7	4556.6	4560.4
5°	4577.3	4582.9	4584.8	4592.3	4594.2	4592.3	4596.1	4598.0
7.5°	4641.2	4650.6	4654.4	4661.9	4656.3	4663.8	4665.7	4665.7
10°	4735.3	4744.7	4746.5	4754.1	4750.3	4754.1	4754.1	4750.3
12.5°	4859.4	4861.3	4855.6	4861.3	4853.7	4857.5	4851.9	4848.1
15°	4996.7	4991.0	4977.9	4977.9	4966.6	4968.5	4966.6	4964.7
17.5°	5130.2	5118.9	5109.5	5105.7	5096.3	5094.5	5088.8	5088.8
20°	5276.9	5271.2	5265.6	5258.1	5248.7	5239.3	5237.4	5241.1
22.5°	5453.6	5451.8	5451.8	5448.0	5434.8	5425.4	5419.8	5419.8
25°	5690.6	5673.7	5673.7	5671.8	5666.1	5660.5	5649.2	5654.9
27.5°	5957.6	5948.2	5955.8	5953.9	5948.2	5948.2	5940.7	5940.7
30°	6286.7	6283.0	6294.3	6284.9	6266.0	6264.2	6256.6	6247.2
32.5°	6666.6	6662.8	6679.8	6668.5	6638.4	6621.5	6606.4	6598.9
35°	7089.7	7091.6	7112.3	7104.8	7070.9	7059.6	7033.3	7029.6
37.5°	7552.4	7582.4	7618.2	7625.7	7597.5	7590.0	7561.8	7546.7
40°	8095.8	8135.3	8189.9	8203.0	8172.9	8167.3	8127.8	8107.1
42.5°	8675.0	8742.7	8810.5	8821.7	8791.6	8761.6	8723.9	8708.9
45°	9322.0	9402.8	9491.2	9513.8	9468.6	9432.9	9384.0	9384.0
47.5°	10047.9	10149.4	10249.1	10311.1	10269.8	10232.2	10173.9	10136.2
50°	10905.4	11044.6	11174.3	11238.3	11172.4	11101.0	10999.4	10965.6
52.5°	11981.1	12131.5	12244.4	12210.5	12109.0	12009.3	11898.3	11853.2
55°	13353.9	13404.7	13404.7	13276.8	13073.7	12906.3	12731.4	12673.1
57.5°	15070.9	14875.3	14574.4	14192.6	13713.1	13295.6	13013.5	12880.0
60°	17088.7	16148.4	15085.9	14042.2	13184.6	12477.6	12058.2	11866.4
62.5°	18433.3	15973.5	13844.7	12169.1	10935.5	10083.6	9504.4	9278.7
65°	17227.9	13321.9	10471.0	8466.3	7121.7	6254.8	5681.2	5470.6
67.5°	12618.6	8347.8	5575.9	3996.2	2928.0	2335.7	2100.6	2002.8
70°	5664.3	2939.3	1801.6	1406.7	1213.0	1113.3	1070.0	1055.0
72.5°	1707.6	1235.5	1041.8	940.3	863.2	814.3	778.6	774.8
75°	1030.5	857.5	761.6	701.5	652.6	613.1	594.3	588.6
77.5°	720.3	630.0	584.9	541.6	504.0	473.9	457.0	443.8
80°	505.9	462.6	441.9	417.5	393.0	364.8	340.4	329.1
82.5°	338.5	329.1	329.1	314.1	293.4	267.0	218.1	206.9
85°	218.1	216.3	220.0	214.4	199.3	171.1	141.0	133.5
87.5°	101.6	103.4	114.7	112.8	109.1	90.3	71.5	67.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)