

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: P192648

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5WQ-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65841.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 640
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

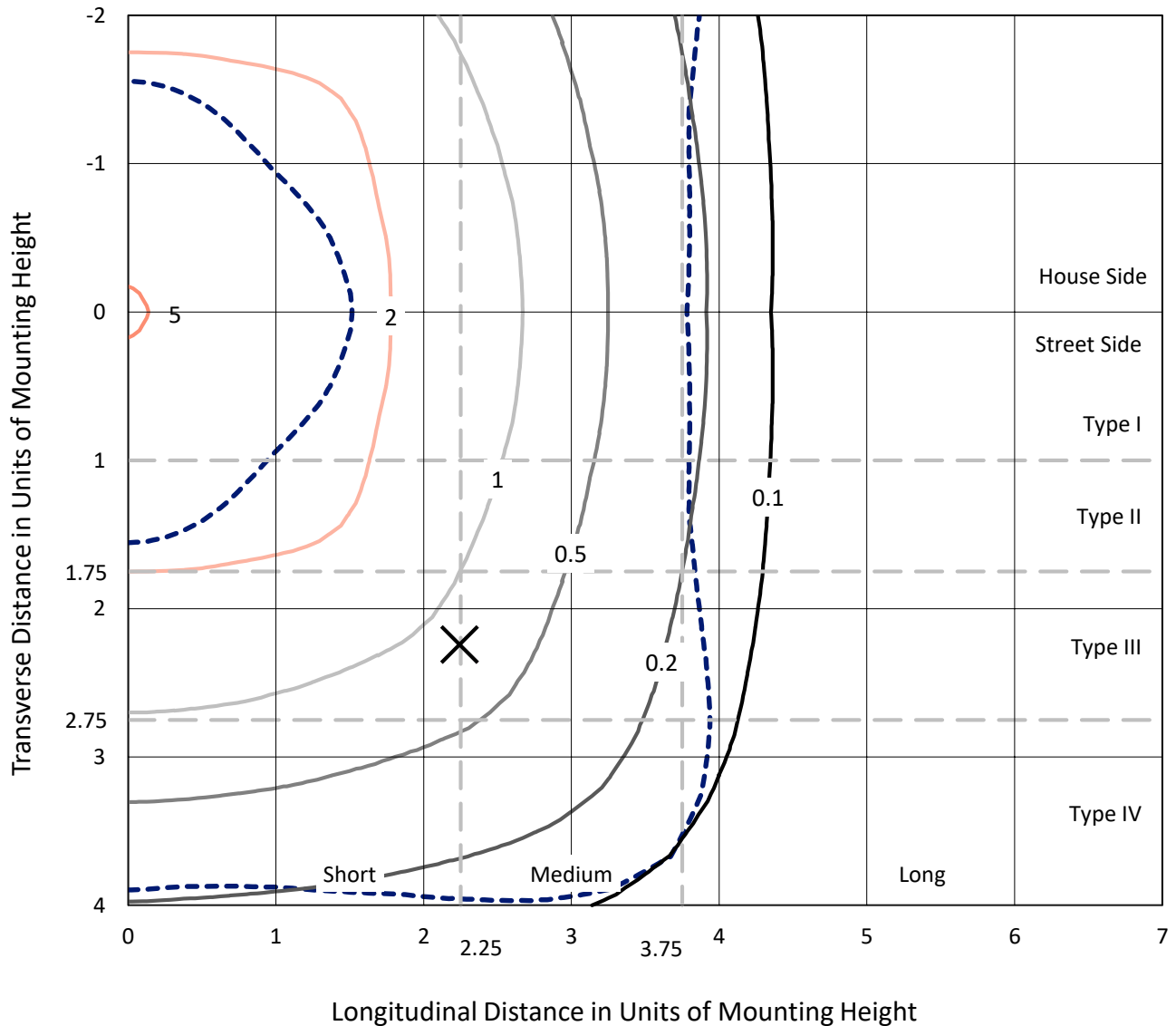


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

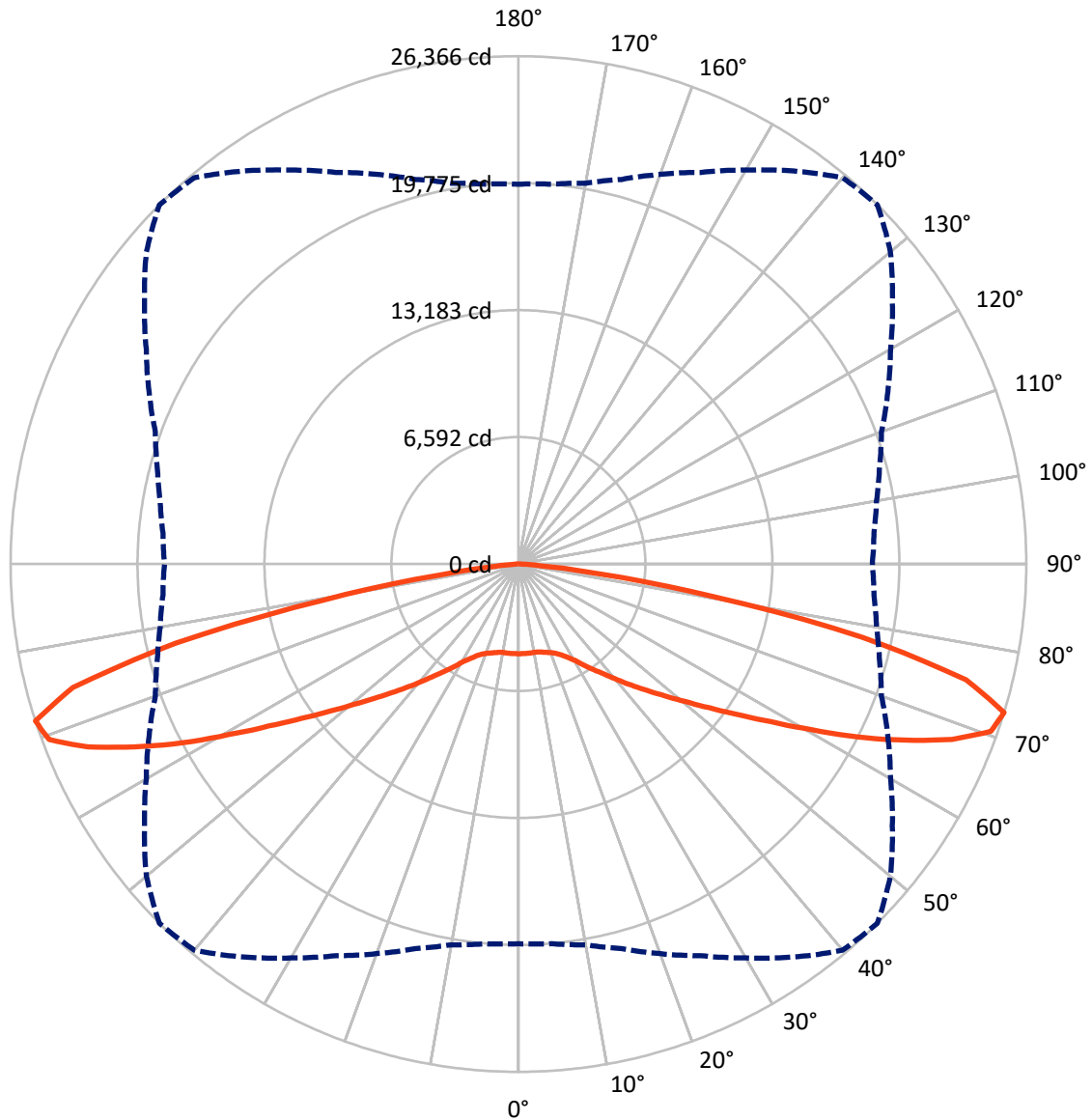


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32920.9	0.0	32920.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32920.9	0.0	32920.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	65841.8	0.0	65841.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	0.7
10°-20°	1352.2	2.1
20°-30°	2471.0	3.8
30°-40°	4260.5	6.5
40°-50°	7283.2	11.1
50°-60°	11805.2	17.9
60°-70°	19584.4	29.7
70°-80°	17249.3	26.2
80°-90°	1390.8	2.1
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°	65841.8	100.0
0°-180°	65841.8	100.0



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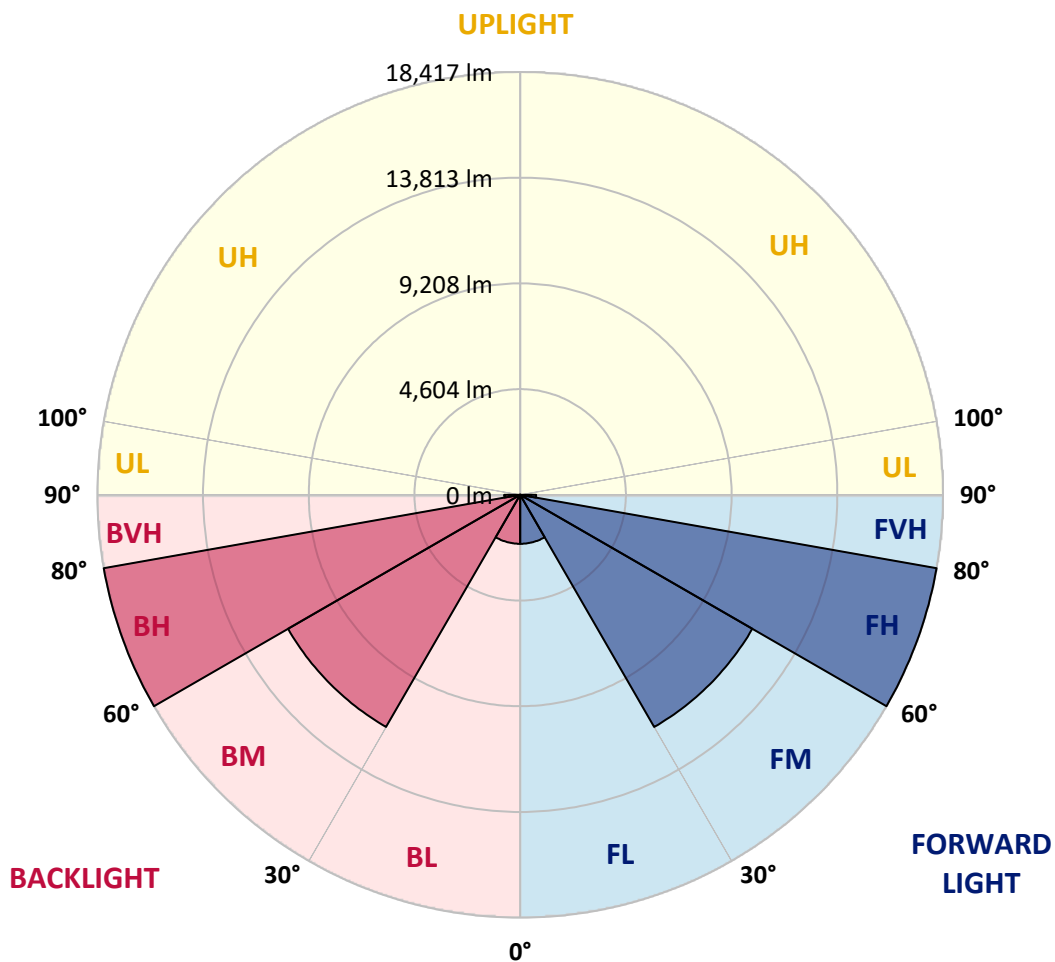
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2134.2	3.2			
FM	(30°-60°)	11674.5	17.7			
FH	(60°-80°)	18416.8	28.0			G5
FVH	(80°-90°)	695.4	1.1			G4/750
BL	(0°-30°)	2134.2	3.2	B3/2500		
BM	(30°-60°)	11674.5	17.7	B5		
BH	(60°-80°)	18416.8	28.0	B5		G5
BVH	(80°-90°)	695.4	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6
2.5°	4662.6	4665.6	4668.6	4665.6	4665.6	4662.6	4659.6	4662.6	4659.6	4653.6	4656.6
5°	4677.7	4683.7	4683.7	4677.7	4680.7	4677.7	4671.7	4674.6	4668.6	4659.6	4659.6
7.5°	4695.9	4698.9	4698.9	4692.8	4695.9	4689.9	4683.7	4680.7	4674.6	4662.6	4653.6
10°	4723.1	4726.0	4723.1	4716.9	4716.9	4707.9	4692.8	4686.7	4674.6	4656.6	4647.6
12.5°	4753.3	4756.3	4753.3	4747.2	4744.1	4729.1	4716.9	4707.9	4698.9	4683.7	4668.6
15°	4795.5	4801.5	4795.5	4783.4	4774.4	4762.3	4756.3	4759.3	4762.3	4750.1	4735.1
17.5°	4874.0	4877.0	4867.9	4840.8	4828.7	4816.5	4816.5	4822.7	4831.8	4825.7	4810.5
20°	5019.0	5009.9	4988.8	4955.6	4940.4	4919.3	4916.3	4919.3	4919.3	4916.3	4904.2
22.5°	5200.2	5194.0	5167.0	5124.7	5103.5	5091.5	5073.4	5058.2	5055.2	5046.1	5034.0
25°	5417.6	5414.6	5381.3	5345.1	5330.0	5314.9	5299.8	5278.7	5260.5	5239.4	5227.3
27.5°	5695.3	5683.3	5635.0	5616.9	5595.7	5586.7	5565.5	5541.4	5526.4	5499.1	5484.0
30°	6000.4	6000.4	5961.1	5955.0	5955.0	5934.0	5909.9	5867.6	5840.4	5813.1	5804.1
32.5°	6305.5	6308.4	6269.2	6281.2	6290.3	6305.5	6311.5	6296.4	6278.2	6275.2	6257.1
35°	6746.3	6734.2	6695.0	6704.0	6701.0	6698.0	6698.0	6731.3	6737.3	6743.3	6707.1
37.5°	7292.9	7292.9	7253.6	7253.6	7235.4	7217.4	7193.2	7214.4	7247.6	7256.7	7232.5
40°	7918.0	7939.1	7890.8	7887.8	7893.9	7836.5	7809.3	7842.5	7863.6	7899.9	7872.6
42.5°	8654.9	8639.7	8591.4	8585.4	8552.2	8534.0	8509.8	8537.1	8570.3	8594.5	8603.5
45°	9361.5	9349.5	9295.0	9295.0	9261.8	9246.7	9258.8	9304.1	9319.2	9352.4	9385.6
47.5°	10059.1	10043.9	10007.7	10022.8	10025.8	10053.1	10092.3	10134.6	10176.9	10222.2	10237.3
50°	10771.8	10774.8	10735.5	10771.8	10817.0	10892.5	10998.2	11067.8	11155.3	11212.6	11230.8
52.5°	11421.0	11433.1	11475.4	11559.9	11650.6	11798.5	11979.7	12148.7	12293.8	12390.3	12384.3
55°	12200.1	12218.3	12320.9	12465.8	12613.9	12837.3	13106.0	13405.0	13646.6	13785.6	13698.0
57.5°	13196.7	13235.8	13350.7	13546.9	13767.4	14057.3	14425.7	14875.6	15250.2	15437.4	15295.4
60°	14564.7	14588.9	14727.7	14945.1	15210.8	15570.2	16062.5	16666.5	17194.9	17442.5	17279.5
62.5°	16367.5	16412.8	16524.5	16745.0	17016.8	17424.4	18025.4	18780.3	19438.7	19782.9	19414.5
65°	18520.6	18665.7	18759.2	18982.7	19236.3	19668.2	20296.3	21105.6	21812.3	22038.8	21612.9
67.5°	20652.6	20779.5	20942.6	21199.2	21455.9	21942.1	22524.9	23310.1	24086.2	24291.5	23630.1
70°	21585.8	21658.3	21912.0	22262.2	22754.5	23328.2	24001.6	24883.5	25843.7	26012.9	25173.4
72.5°	19716.5	19788.9	20072.8	20667.7	21525.3	22437.4	23612.1	24907.7	26175.9	26366.1	25209.6
75°	14911.9	14794.1	15214.0	16002.1	17158.7	18430.1	20072.8	21930.1	23763.2	24001.6	22621.6
77.5°	7706.6	7691.6	8008.6	8987.0	10367.1	11813.5	13622.5	15721.2	17515.1	18239.8	17116.4
80°	2171.3	2195.4	2346.5	2832.6	3638.9	4683.7	6097.0	8063.0	9530.5	10279.5	9651.4
82.5°	851.5	918.0	975.3	1066.1	1171.7	1325.8	1769.7	2633.2	3533.2	4221.8	3457.7
85°	305.1	326.1	462.0	546.7	555.7	585.8	667.3	779.1	939.2	1120.4	921.0
87.5°	114.7	126.8	147.9	244.6	241.6	220.4	268.8	280.8	211.4	193.3	238.5
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°	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6	4662.6
2.5°	4650.5	4653.6	4653.6	4656.6	4659.6	4659.6	4665.6	4665.6
5°	4653.6	4653.6	4647.6	4650.5	4647.6	4647.6	4650.5	4650.5
7.5°	4647.6	4644.5	4638.5	4635.5	4629.5	4629.5	4629.5	4629.5
10°	4638.5	4635.5	4629.5	4626.4	4623.5	4623.5	4623.5	4623.5
12.5°	4662.6	4653.6	4647.6	4644.5	4644.5	4644.5	4644.5	4644.5
15°	4726.0	4704.9	4689.9	4689.9	4692.8	4698.9	4698.9	4704.9
17.5°	4804.5	4780.4	4765.4	4753.3	4759.3	4768.3	4774.4	4780.4
20°	4898.2	4886.1	4865.0	4852.9	4852.9	4865.0	4871.0	4874.0
22.5°	5028.0	5019.0	5009.9	4994.8	4994.8	5000.8	5013.0	5013.0
25°	5221.3	5215.3	5209.3	5197.1	5194.0	5194.0	5200.2	5206.2
27.5°	5462.9	5465.9	5459.9	5456.9	5447.7	5444.7	5453.7	5450.8
30°	5786.1	5801.1	5816.2	5804.1	5789.0	5780.0	5770.8	5758.8
32.5°	6223.9	6205.7	6193.7	6172.5	6145.4	6121.2	6103.1	6081.9
35°	6637.6	6607.4	6595.3	6613.5	6610.4	6595.3	6574.1	6556.1
37.5°	7144.9	7138.9	7144.9	7178.2	7172.1	7187.2	7144.9	7141.9
40°	7785.2	7791.2	7833.5	7872.6	7893.9	7915.0	7890.8	7866.6
42.5°	8528.0	8525.0	8540.1	8594.5	8630.7	8654.9	8603.5	8597.5
45°	9313.1	9292.1	9304.1	9349.5	9385.6	9412.8	9355.5	9355.5
47.5°	10176.9	10140.6	10101.3	10152.7	10173.7	10191.9	10146.7	10131.5
50°	11140.2	11064.6	10980.1	11001.2	11001.2	10995.2	10937.8	10934.7
52.5°	12245.4	12106.5	11952.5	11895.2	11861.9	11825.6	11726.0	11677.7
55°	13516.8	13308.5	13066.9	12918.9	12840.3	12740.7	12574.5	12529.3
57.5°	15002.5	14676.4	14259.7	14078.5	13903.4	13740.2	13556.1	13504.7
60°	16763.1	16282.9	15730.3	15395.0	15204.8	15047.8	14857.6	14848.6
62.5°	18726.0	17968.0	17342.9	17040.9	16902.0	16763.1	16581.9	16606.1
65°	20722.1	19930.8	19345.0	19100.4	18970.5	18855.9	18674.7	18701.8
67.5°	22691.1	21963.3	21320.0	21069.3	20924.5	20779.5	20616.4	20643.6
70°	24104.3	23201.4	22476.6	21921.0	21573.7	21181.1	20927.4	20864.0
72.5°	23699.7	22307.5	21157.0	20054.7	19408.5	18883.1	18526.6	18372.7
75°	20510.7	18608.2	17128.5	15775.6	15014.6	14395.6	13945.7	13664.7
77.5°	15232.1	13093.9	11345.5	9787.3	8555.2	7727.8	7144.9	6767.4
80°	8337.8	6341.6	4635.5	3258.4	2394.8	1990.0	1757.6	1645.8
82.5°	2597.1	1676.0	1235.0	1066.1	990.6	948.3	878.8	767.0
85°	827.4	724.7	673.5	643.2	613.1	534.5	368.4	335.2
87.5°	320.1	329.2	326.1	308.0	314.0	226.5	181.2	160.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)