

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: P194157

Luminaire Tested: **GAN-AF-09-LED-U-5MQ-7060-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7060-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55902 lumens
Efficiency: N/A
Efficacy: 111.6 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 - G5

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

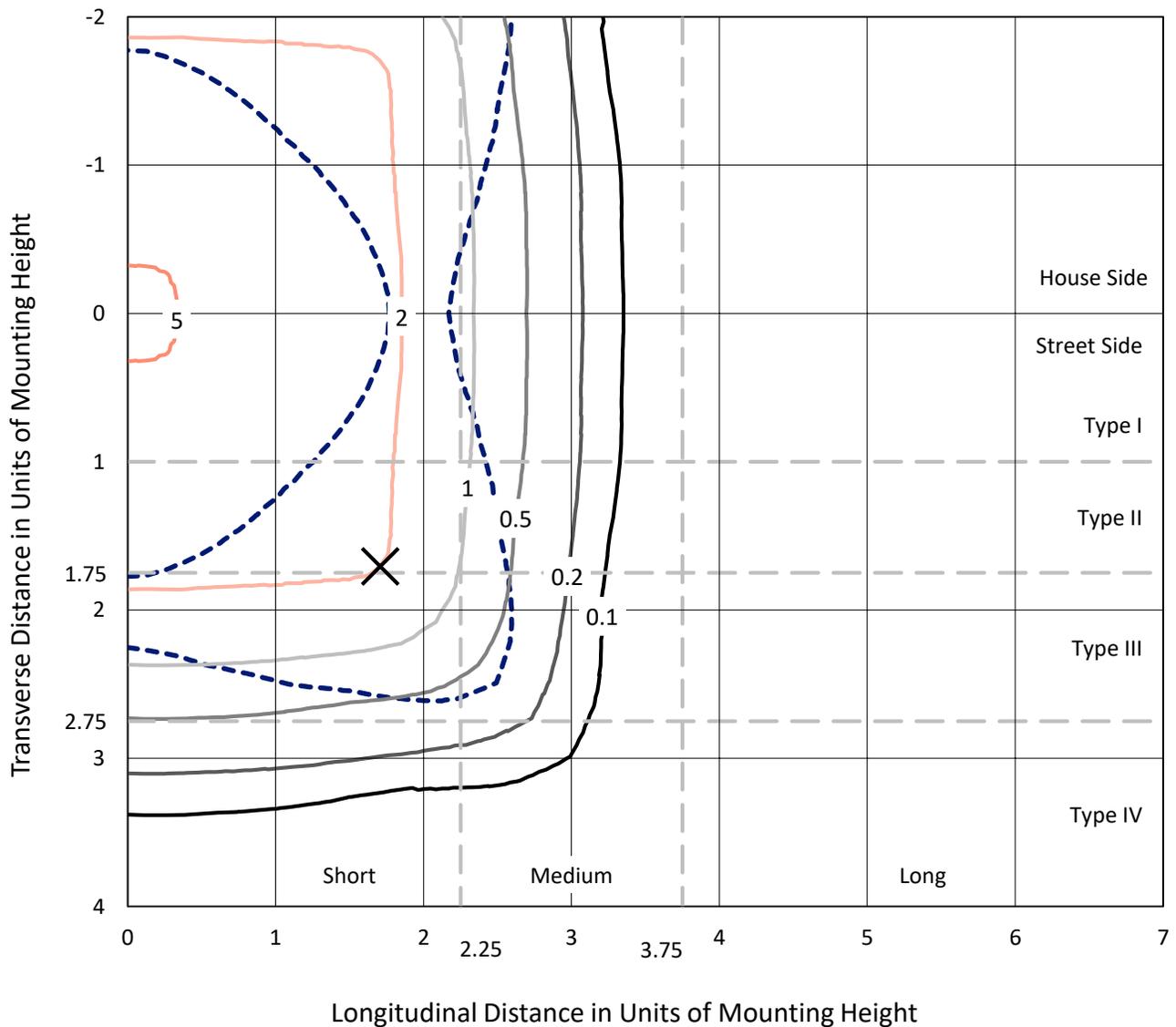


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

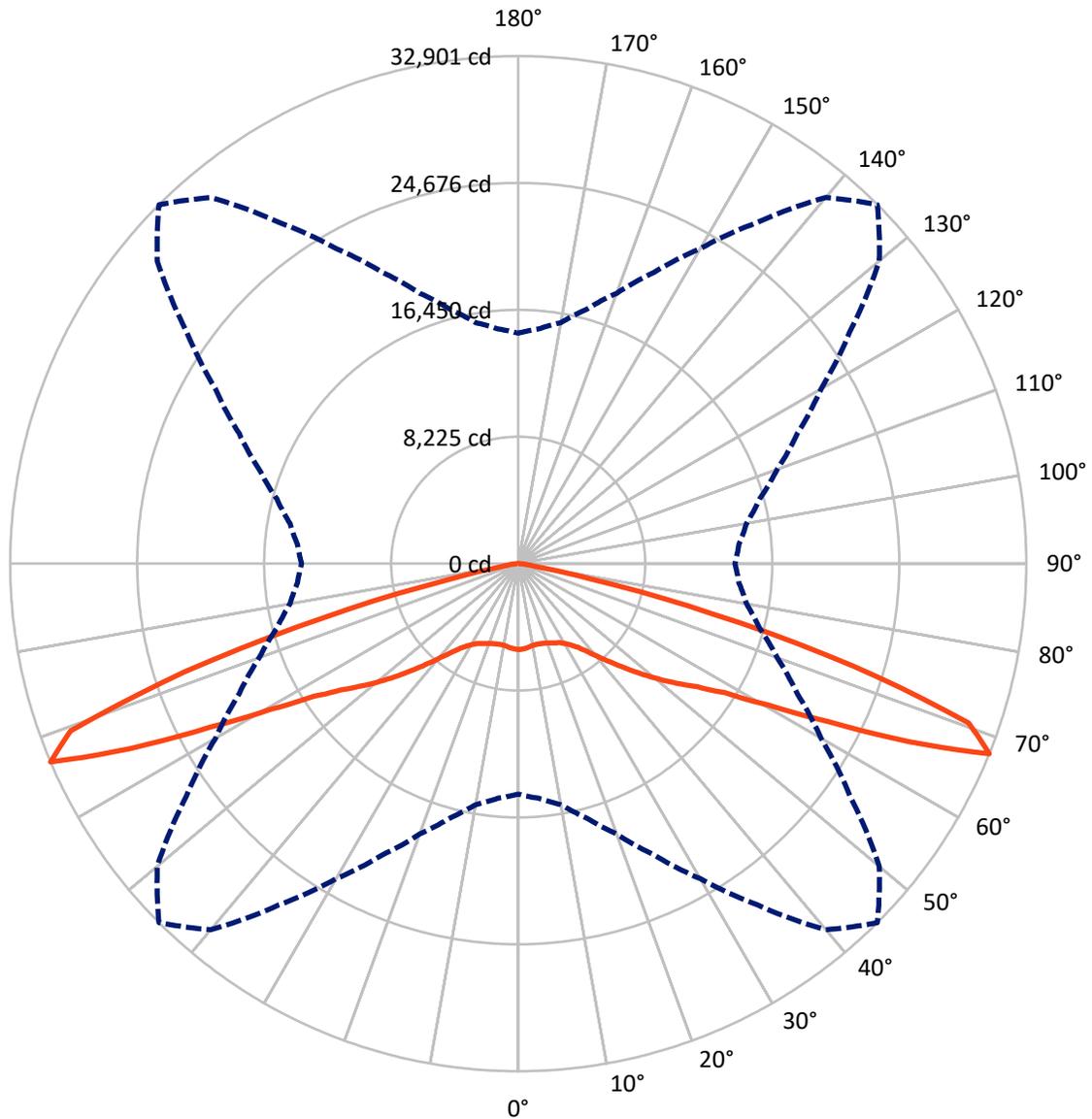


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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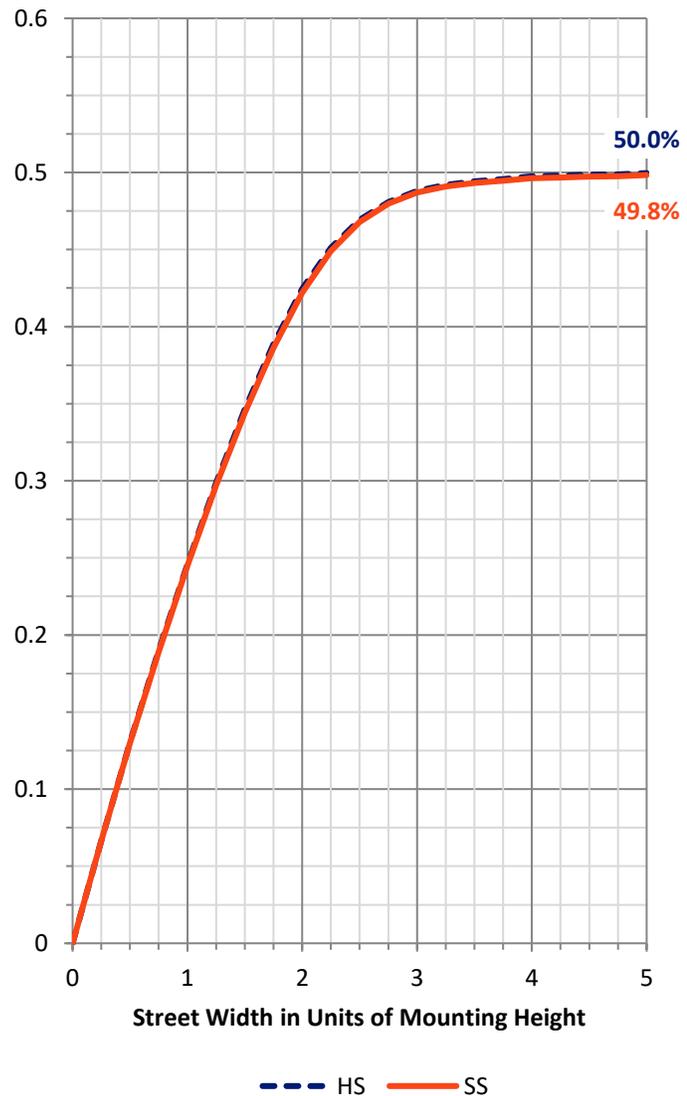
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27951.0	0.0	27951.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27951.0	0.0	27951.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	55902.0	0.0	55902.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	0.9
10°-20°	1513.0	2.7
20°-30°	2572.1	4.6
30°-40°	4204.6	7.5
40°-50°	7506.0	13.4
50°-60°	12655.3	22.6
60°-70°	19639.2	35.1
70°-80°	6900.4	12.3
80°-90°	390.0	0.7
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°	55902.0	100.0
0°-180°	55902.0	100.0



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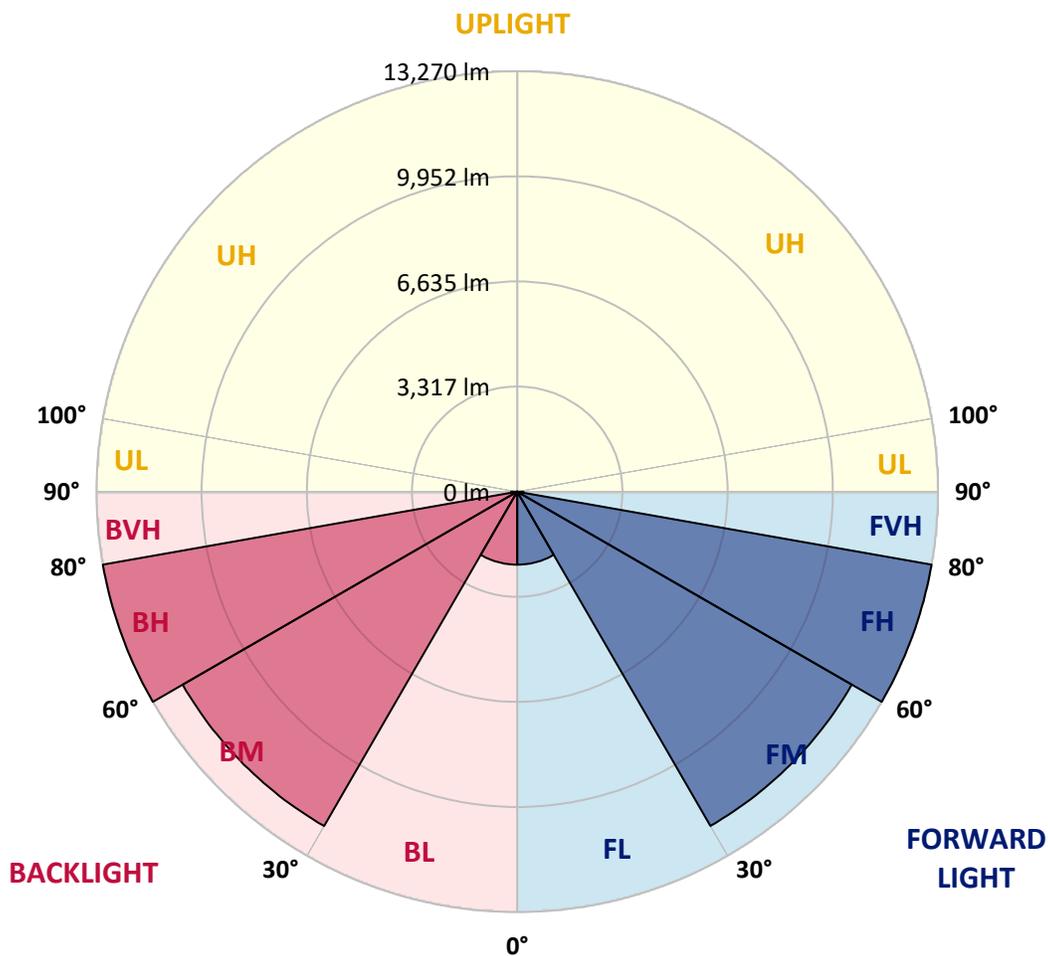
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2303.3	4.1			
FM	(30°-60°)	12183.0	21.8			
FH	(60°-80°)	13269.8	23.7			G5
FVH	(80°-90°)	195.0	0.3			G2/225
BL	(0°-30°)	2303.3	4.1	B3/2500		
BM	(30°-60°)	12183.0	21.8	B5		
BH	(60°-80°)	13269.8	23.7	B5		G5
BVH	(80°-90°)	195.0	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9
2.5°	5550.3	5555.4	5555.4	5555.4	5552.9	5552.9	5547.7	5552.9	5550.3	5542.6	5545.2
5°	5504.0	5509.2	5509.2	5506.6	5514.3	5511.7	5504.0	5509.2	5506.6	5501.5	5504.0
7.5°	5437.2	5444.9	5444.9	5442.3	5450.0	5447.5	5442.3	5444.9	5444.9	5437.2	5437.2
10°	5362.6	5367.8	5367.8	5365.2	5378.1	5378.1	5375.5	5383.2	5385.8	5378.1	5372.9
12.5°	5293.2	5300.9	5300.9	5311.2	5324.1	5329.2	5342.1	5352.4	5362.6	5360.1	5349.8
15°	5252.1	5257.2	5267.5	5280.4	5300.9	5318.9	5339.5	5362.6	5383.2	5388.3	5372.9
17.5°	5226.4	5234.1	5249.5	5267.5	5295.8	5326.6	5357.5	5388.3	5416.6	5426.9	5408.9
20°	5218.7	5223.8	5239.2	5270.1	5308.7	5354.9	5398.6	5434.6	5473.2	5486.0	5473.2
22.5°	5234.1	5244.4	5262.4	5298.4	5349.8	5408.9	5460.3	5509.2	5558.0	5581.2	5563.2
25°	5303.5	5313.8	5336.9	5383.2	5439.8	5501.5	5560.6	5617.1	5660.8	5684.0	5671.1
27.5°	5432.0	5444.9	5473.2	5519.5	5581.2	5648.0	5712.3	5758.5	5794.5	5802.2	5786.8
30°	5624.9	5653.1	5686.6	5738.0	5810.0	5866.5	5930.8	5971.9	6015.6	6015.6	6002.8
32.5°	5925.6	5953.9	5989.9	6038.8	6095.3	6157.0	6213.6	6249.6	6295.8	6298.4	6267.6
35°	6375.5	6388.4	6419.2	6450.1	6501.5	6555.5	6604.3	6627.5	6666.0	6668.6	6640.3
37.5°	6969.4	6971.9	6992.5	7002.8	7049.1	7108.2	7154.5	7169.9	7205.9	7200.7	7172.5
40°	7660.9	7673.8	7681.5	7696.9	7745.7	7802.3	7851.1	7858.9	7897.4	7889.7	7853.7
42.5°	8460.4	8465.6	8509.3	8532.4	8578.7	8607.0	8668.7	8676.4	8722.6	8702.1	8660.9
45°	9357.6	9403.9	9445.0	9491.3	9540.1	9573.6	9622.4	9612.1	9643.0	9612.1	9589.0
47.5°	10301.1	10334.5	10427.1	10499.0	10578.7	10607.0	10676.4	10645.6	10676.4	10632.7	10625.0
50°	11339.7	11398.8	11478.5	11560.8	11645.6	11691.9	11781.9	11743.3	11784.4	11743.3	11720.2
52.5°	12362.9	12378.3	12553.1	12673.9	12792.2	12846.2	12900.2	12882.2	12884.7	12882.2	12859.0
55°	13334.6	13370.6	13545.4	13709.9	13915.6	14067.3	14159.8	14149.5	14126.4	14103.3	14064.7
57.5°	14429.8	14465.8	14666.3	14869.4	15103.3	15319.3	15506.9	15699.7	15774.3	15794.8	15710.0
60°	15910.5	15908.0	16175.3	16422.1	16756.3	17077.7	17489.0	17908.0	18388.8	18612.4	18316.8
62.5°	17417.0	17478.7	17864.3	18301.3	18990.3	19661.3	20419.7	21165.2	21926.1	22545.7	21887.6
65°	17237.0	17473.6	18046.8	19036.6	20309.1	21820.7	23455.8	25185.9	26748.9	27823.5	26617.8
67.5°	14938.8	15275.5	15859.1	17062.2	18653.5	20833.6	23579.2	27000.9	30977.8	32900.8	30517.7
70°	10828.1	11208.6	11820.4	12995.3	14571.2	16643.2	19625.3	23733.4	28998.3	30936.7	28311.9
72.5°	5388.3	5594.0	5971.9	6720.0	7912.8	9594.1	12298.6	16247.3	20905.5	22684.5	20286.0
75°	1830.4	1925.5	1989.8	2234.0	2611.9	3272.6	4617.1	7103.1	10835.8	12990.1	10681.6
77.5°	1056.6	1059.2	1102.9	1146.6	1210.8	1282.8	1462.8	1920.4	3321.4	4717.4	3437.1
80°	683.8	681.3	717.2	750.7	794.4	830.4	840.6	889.5	1025.7	1216.0	1087.4
82.5°	354.8	398.5	478.2	521.9	604.1	619.6	599.0	581.0	614.4	637.6	653.0
85°	195.4	169.7	254.5	329.1	365.1	370.2	370.2	349.6	362.5	354.8	385.6
87.5°	90.0	82.3	100.3	162.0	172.2	146.5	154.2	136.3	97.7	95.1	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°	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9	5570.9
2.5°	5545.2	5547.7	5547.7	5555.4	5558.0	5563.2	5568.3	5570.9
5°	5501.5	5509.2	5504.0	5511.7	5511.7	5516.9	5516.9	5519.5
7.5°	5437.2	5444.9	5444.9	5444.9	5442.3	5450.0	5450.0	5450.0
10°	5370.3	5375.5	5372.9	5367.8	5362.6	5370.3	5367.8	5365.2
12.5°	5349.8	5336.9	5326.6	5321.5	5311.2	5313.8	5306.1	5306.1
15°	5362.6	5339.5	5321.5	5313.8	5303.5	5298.4	5293.2	5295.8
17.5°	5396.1	5367.8	5344.6	5331.8	5318.9	5311.2	5300.9	5303.5
20°	5455.2	5421.8	5388.3	5362.6	5339.5	5326.6	5318.9	5316.4
22.5°	5542.6	5493.7	5444.9	5406.3	5375.5	5357.5	5349.8	5344.6
25°	5642.9	5588.9	5532.3	5488.6	5457.8	5434.6	5419.2	5419.2
27.5°	5768.8	5725.1	5673.7	5622.3	5594.0	5570.9	5560.6	5555.4
30°	5979.6	5938.5	5897.4	5848.5	5812.5	5789.4	5771.4	5756.0
32.5°	6249.6	6216.1	6182.7	6146.7	6113.3	6082.5	6054.2	6041.3
35°	6630.0	6604.3	6581.2	6540.1	6527.2	6509.2	6493.8	6480.9
37.5°	7154.5	7144.2	7144.2	7100.5	7090.2	7082.5	7067.1	7069.6
40°	7843.4	7853.7	7840.9	7825.4	7817.7	7797.2	7797.2	7815.2
42.5°	8658.4	8666.1	8694.4	8668.7	8696.9	8671.2	8655.8	8668.7
45°	9604.4	9632.7	9689.3	9663.5	9681.5	9637.8	9583.9	9586.4
47.5°	10666.1	10691.9	10715.0	10697.0	10699.6	10627.6	10555.6	10537.6
50°	11769.0	11779.3	11792.1	11766.4	11771.6	11691.9	11609.6	11612.2
52.5°	12859.0	12907.9	12959.3	12889.9	12874.4	12784.5	12668.8	12622.5
55°	14105.8	14175.3	14116.1	13995.3	13874.5	13753.6	13602.0	13576.3
57.5°	15643.2	15524.9	15339.8	15111.0	14943.9	14774.2	14620.0	14555.7
60°	17782.1	17337.3	17003.1	16663.8	16450.4	16242.2	16039.1	16008.2
62.5°	20805.3	20036.6	19370.8	18669.0	18095.7	17648.4	17291.0	17190.8
65°	24594.6	22777.1	21201.2	19730.7	18453.0	17489.0	16882.3	16614.9
67.5°	26224.5	22635.7	19933.8	17846.3	16175.3	15008.2	14352.6	14026.2
70°	23044.4	18771.8	15833.4	13743.4	12221.5	10977.2	10383.4	10033.7
72.5°	15854.0	11941.3	9442.5	7707.2	6491.2	5450.0	5038.7	5007.9
75°	7118.5	4714.8	3249.5	2503.9	2108.0	1833.0	1748.1	1683.9
77.5°	1992.4	1473.1	1313.7	1228.8	1146.6	1051.4	1015.5	1023.2
80°	969.2	915.2	879.2	825.2	750.7	671.0	635.0	650.4
82.5°	642.7	635.0	658.1	619.6	511.6	434.5	365.1	334.2
85°	390.8	395.9	403.6	406.2	344.5	241.7	164.5	185.1
87.5°	154.2	177.4	192.8	200.5	187.7	115.7	92.5	95.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)