

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: P268884

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268884
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-10-LED-U-5MQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58989 lumens
Efficiency: N/A
Efficacy: 92.2 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 - G5

Input Watts (W): 640
Input Voltage (V): NR
Input Current (A_{in}): 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

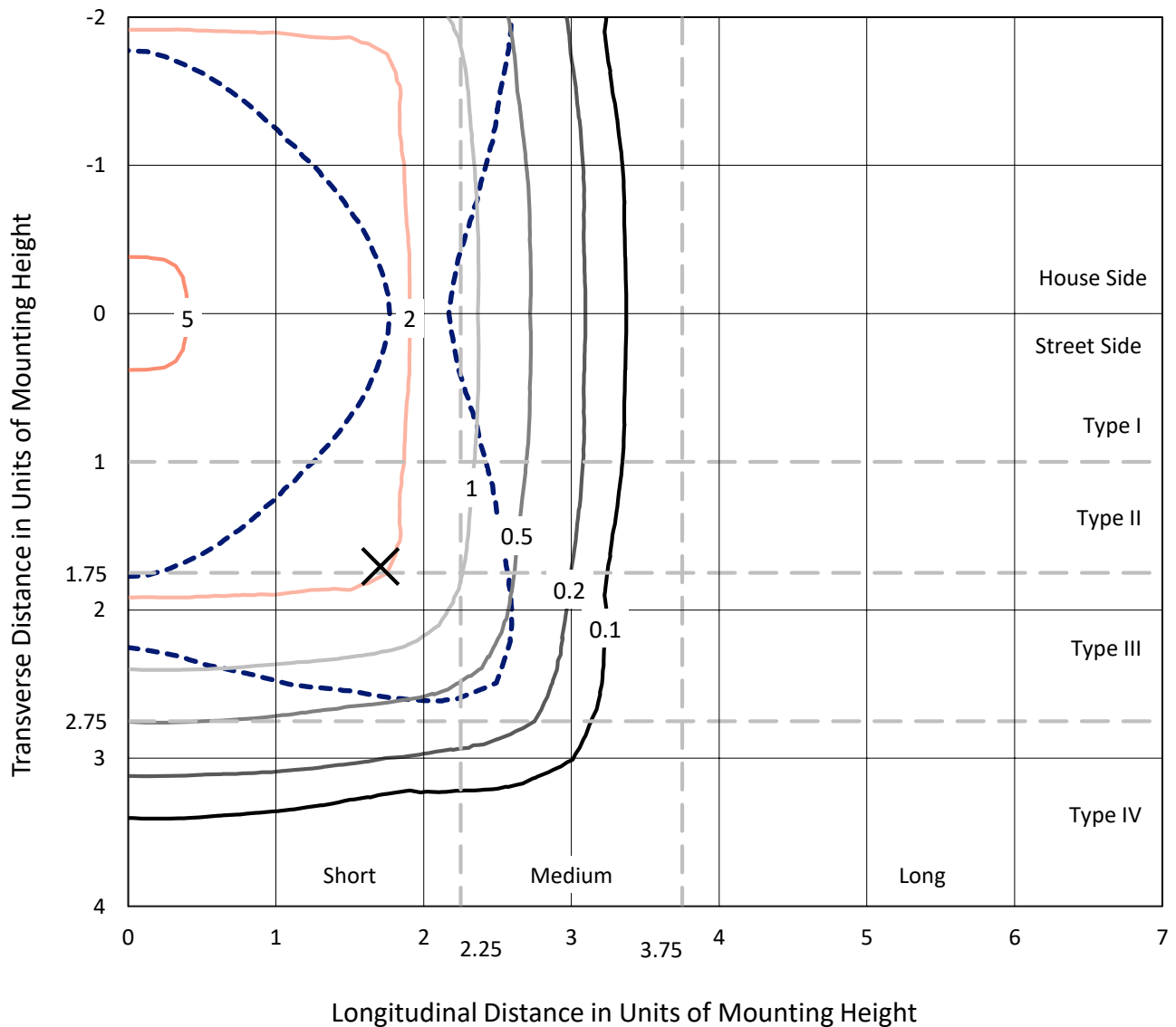


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

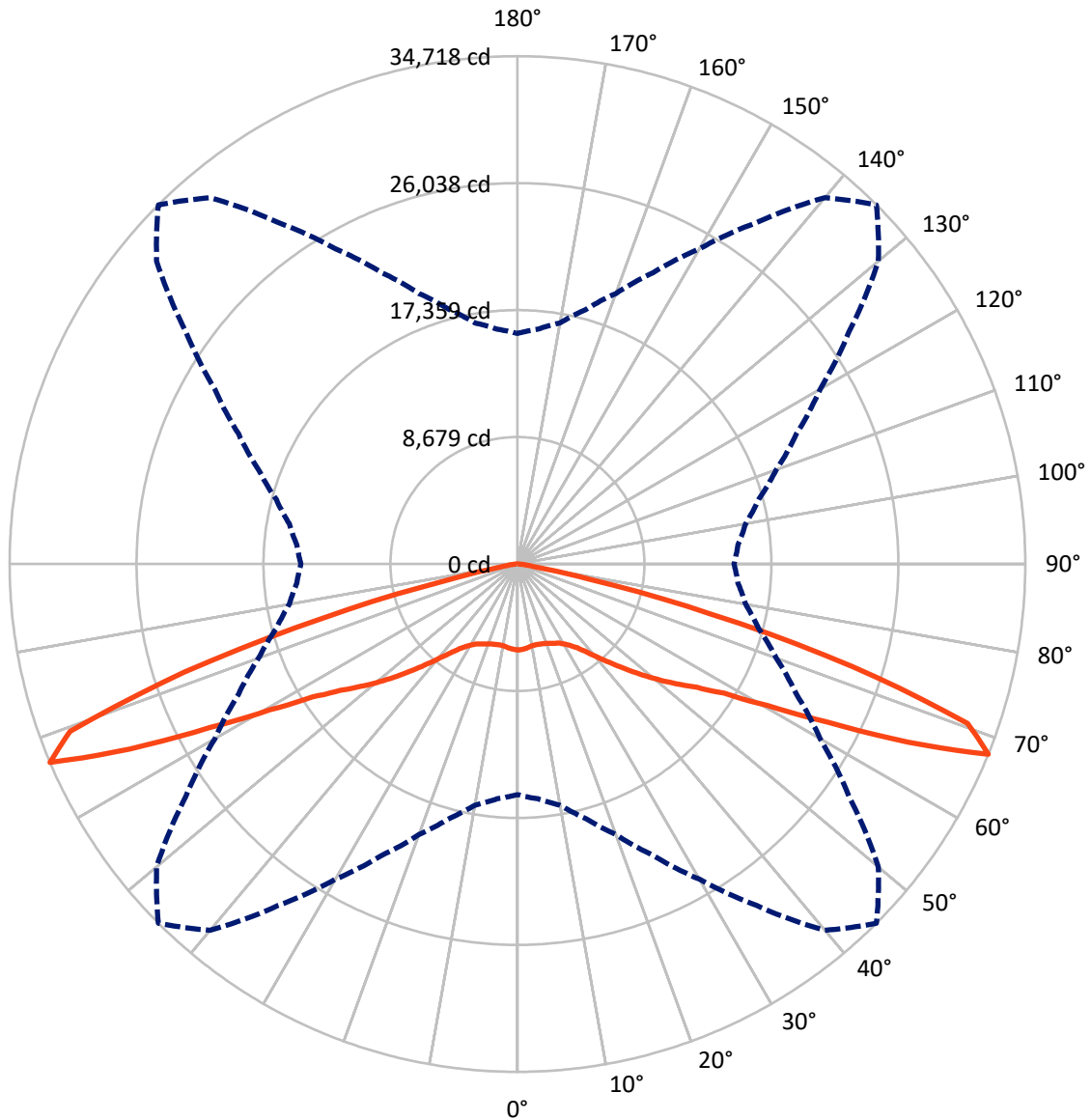


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Full Cutoff

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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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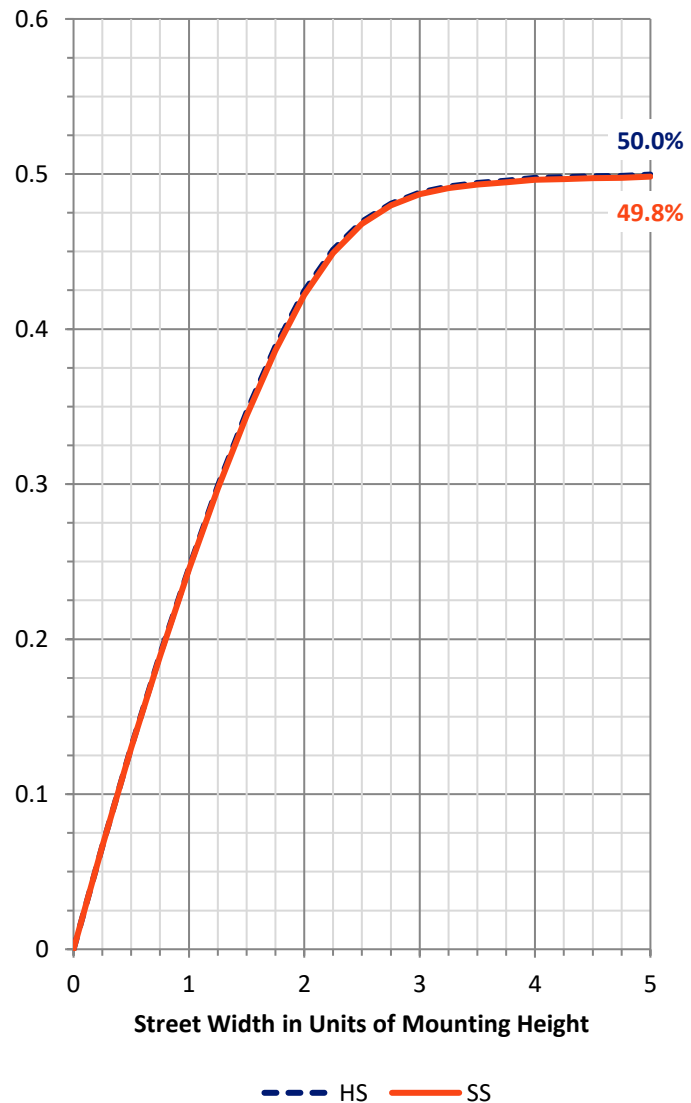
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29494.5	0.0	29494.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29494.5	0.0	29494.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	58989.0	0.0	58989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.2	0.9
10°-20°	1596.6	2.7
20°-30°	2714.2	4.6
30°-40°	4436.8	7.5
40°-50°	7920.5	13.4
50°-60°	13354.2	22.6
60°-70°	20723.7	35.1
70°-80°	7281.4	12.3
80°-90°	411.5	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°	58989.0	100.0
0°-180°	58989.0	100.0



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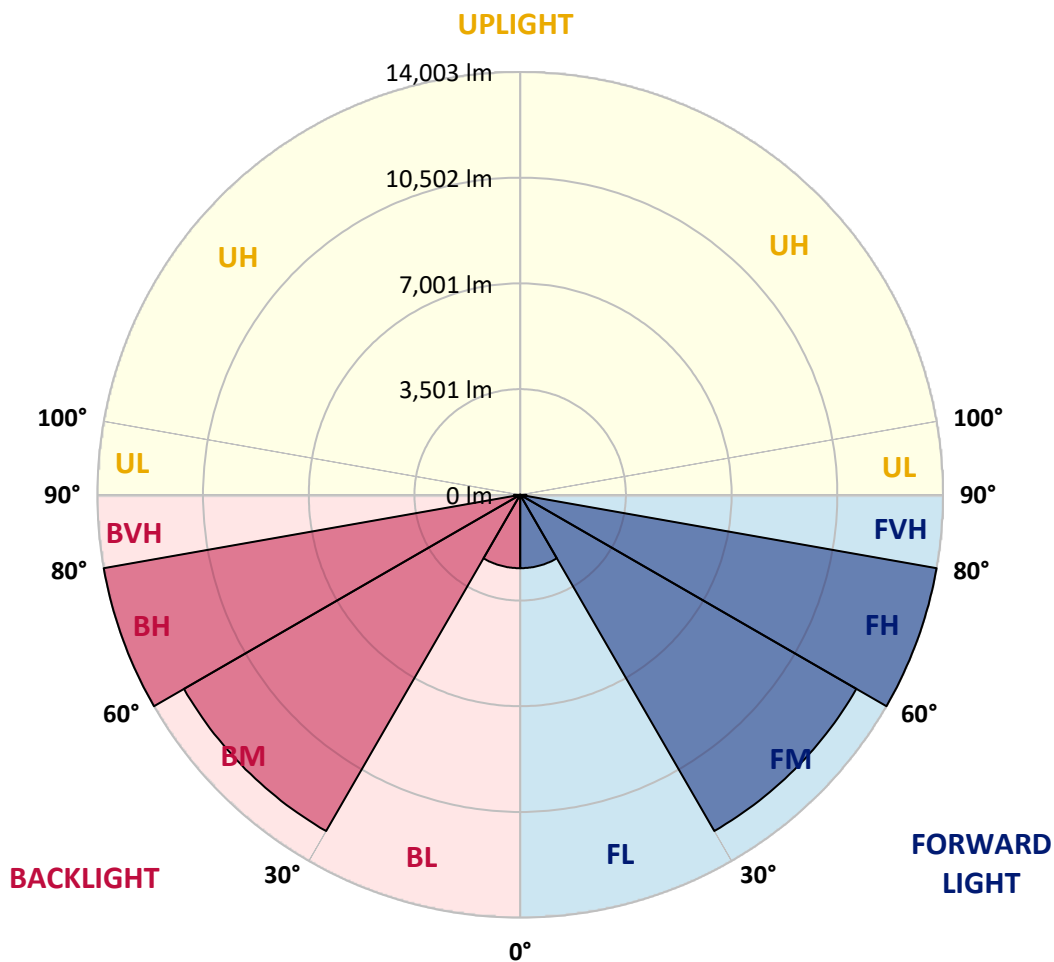
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2430.5	4.1			
FM	(30°-60°)	12855.7	21.8			
FH	(60°-80°)	14002.5	23.7			G5
FVH	(80°-90°)	205.7	0.3			G2/225
BL	(0°-30°)	2430.5	4.1	B3/2500		
BM	(30°-60°)	12855.7	21.8	B5		
BH	(60°-80°)	14002.5	23.7	B5		G5
BVH	(80°-90°)	205.7	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°	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5
2.5°	5856.8	5862.2	5862.2	5862.2	5859.6	5859.6	5854.1	5859.6	5856.8	5848.7	5851.4
5°	5808.0	5813.4	5813.4	5810.6	5818.9	5816.0	5808.0	5813.4	5810.6	5805.2	5808.0
7.5°	5737.5	5745.6	5745.6	5742.9	5750.9	5748.3	5742.9	5745.6	5745.6	5737.5	5737.5
10°	5658.8	5664.3	5664.3	5661.5	5675.0	5675.0	5672.3	5680.5	5683.1	5675.0	5669.7
12.5°	5585.5	5593.7	5593.7	5604.5	5618.1	5623.5	5637.0	5648.0	5658.8	5656.1	5645.2
15°	5542.2	5547.6	5558.4	5571.9	5593.7	5612.7	5634.3	5658.8	5680.5	5685.9	5669.7
17.5°	5515.1	5523.0	5539.4	5558.4	5588.3	5620.8	5653.4	5685.9	5715.7	5726.5	5707.7
20°	5506.9	5512.3	5528.6	5561.0	5601.8	5650.6	5696.7	5734.7	5775.5	5788.9	5775.5
22.5°	5523.0	5534.0	5553.0	5591.0	5645.2	5707.7	5761.9	5813.4	5864.9	5889.4	5870.3
25°	5596.4	5607.2	5631.7	5680.5	5740.2	5805.2	5867.6	5927.3	5973.5	5997.9	5984.2
27.5°	5732.1	5745.6	5775.5	5824.3	5889.4	5959.9	6027.6	6076.6	6114.6	6122.7	6106.4
30°	5935.6	5965.4	6000.6	6054.8	6130.8	6190.5	6258.3	6301.7	6347.9	6347.9	6334.3
32.5°	6252.8	6282.7	6320.7	6372.2	6432.0	6497.0	6556.6	6594.6	6643.4	6646.2	6613.6
35°	6727.5	6741.2	6773.7	6806.3	6860.5	6917.5	6969.1	6993.5	7034.1	7036.9	7007.0
37.5°	7354.2	7356.9	7378.7	7389.5	7438.3	7500.7	7549.5	7565.9	7603.9	7598.4	7568.5
40°	8083.9	8097.5	8105.6	8121.9	8173.5	8233.1	8284.7	8292.9	8333.5	8325.4	8287.5
42.5°	8927.6	8933.0	8979.2	9003.6	9052.4	9082.3	9147.4	9155.4	9204.4	9182.7	9139.3
45°	9874.3	9923.1	9966.5	10015.5	10066.9	10102.2	10153.8	10142.9	10175.6	10142.9	10118.5
47.5°	10869.9	10905.2	11002.9	11078.8	11162.9	11192.7	11266.1	11233.5	11266.1	11219.9	11211.7
50°	11966.0	12028.2	12112.3	12199.3	12288.8	12337.5	12432.5	12391.8	12435.1	12391.8	12367.3
52.5°	13045.5	13061.9	13246.2	13373.7	13498.7	13555.6	13612.6	13593.5	13596.2	13593.5	13569.1
55°	14071.1	14109.0	14293.4	14467.1	14684.1	14844.1	14941.8	14930.9	14906.5	14882.1	14841.3
57.5°	15226.6	15264.5	15476.2	15690.4	15937.3	16165.2	16363.3	16566.7	16645.4	16667.1	16577.5
60°	16789.1	16786.4	17068.5	17328.9	17681.6	18020.7	18454.8	18896.9	19404.2	19640.3	19328.2
62.5°	18378.9	18443.9	18850.8	19312.0	20039.0	20747.1	21547.3	22334.0	23136.9	23790.7	23096.2
65°	18188.9	18438.5	19043.3	20087.8	21430.7	23025.7	24751.0	26576.6	28226.1	29359.9	28087.7
67.5°	15763.6	16119.0	16734.9	18004.4	19683.7	21984.0	24881.3	28491.9	32688.6	34717.7	32202.9
70°	11426.0	11827.5	12473.1	13712.8	15375.7	17562.3	20709.0	25043.9	30599.7	32645.0	29875.4
72.5°	5685.9	5902.9	6301.7	7091.1	8349.8	10124.0	12977.8	17144.5	22059.9	23937.1	21406.3
75°	1931.4	2031.8	2099.7	2357.3	2756.1	3453.4	4872.0	7495.3	11434.2	13707.4	11271.5
77.5°	1114.9	1117.6	1163.8	1209.8	1277.7	1353.7	1543.6	2026.3	3504.8	4977.9	3626.9
80°	721.6	718.9	756.8	792.1	838.3	876.1	887.0	938.5	1082.4	1283.0	1147.5
82.5°	374.4	420.4	504.6	550.8	637.4	653.7	632.0	613.1	648.3	672.8	689.0
85°	206.3	179.0	268.6	347.3	385.3	390.7	390.7	368.9	382.5	374.4	406.9
87.5°	95.0	86.7	105.8	170.9	181.7	154.6	162.8	143.8	103.0	100.4	113.9
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°	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5	5878.5
2.5°	5851.4	5854.1	5854.1	5862.2	5864.9	5870.3	5875.9	5878.5
5°	5805.2	5813.4	5808.0	5816.0	5816.0	5821.6	5821.6	5824.3
7.5°	5737.5	5745.6	5745.6	5745.6	5742.9	5750.9	5750.9	5750.9
10°	5666.9	5672.3	5669.7	5664.3	5658.8	5666.9	5664.3	5661.5
12.5°	5645.2	5631.7	5620.8	5615.3	5604.5	5607.2	5599.0	5599.0
15°	5658.8	5634.3	5615.3	5607.2	5596.4	5591.0	5585.5	5588.3
17.5°	5694.0	5664.3	5639.7	5626.3	5612.7	5604.5	5593.7	5596.4
20°	5756.3	5721.1	5685.9	5658.8	5634.3	5620.8	5612.7	5609.9
22.5°	5848.7	5797.1	5745.6	5704.9	5672.3	5653.4	5645.2	5639.7
25°	5954.4	5897.6	5837.8	5791.7	5759.2	5734.7	5718.4	5718.4
27.5°	6087.4	6041.3	5987.1	5932.8	5902.9	5878.5	5867.6	5862.2
30°	6309.9	6266.4	6223.0	6171.4	6133.4	6109.2	6090.1	6073.8
32.5°	6594.6	6559.5	6524.1	6486.1	6450.9	6418.3	6388.4	6374.9
35°	6996.2	6969.1	6944.5	6901.1	6887.7	6868.6	6852.5	6838.7
37.5°	7549.5	7538.7	7538.7	7492.7	7481.8	7473.5	7457.3	7460.1
40°	8276.5	8287.5	8273.8	8257.6	8249.5	8227.8	8227.8	8246.7
42.5°	9136.5	9144.7	9174.5	9147.4	9177.2	9150.0	9133.7	9147.4
45°	10134.8	10164.6	10224.2	10197.2	10216.2	10170.0	10113.1	10115.9
47.5°	11255.1	11282.3	11306.6	11287.7	11290.3	11214.5	11138.5	11119.5
50°	12418.9	12429.8	12443.3	12416.3	12421.7	12337.5	12250.7	12253.4
52.5°	13569.1	13620.6	13674.9	13601.6	13585.3	13490.4	13368.3	13319.6
55°	14884.7	14958.0	14895.6	14768.1	14640.7	14513.1	14353.1	14326.0
57.5°	16507.1	16382.2	16186.9	15945.5	15769.1	15590.2	15427.3	15359.5
60°	18763.9	18294.7	17942.0	17584.0	17358.8	17139.1	16924.7	16892.2
62.5°	21954.1	21143.0	20440.5	19699.9	19094.9	18622.9	18245.8	18140.1
65°	25952.8	24034.8	22372.0	20820.2	19472.0	18454.8	17814.6	17532.4
67.5°	27672.6	23885.7	21034.5	18831.8	17068.5	15836.9	15145.2	14800.7
70°	24316.9	19808.4	16707.8	14502.2	12896.3	11583.4	10956.7	10587.9
72.5°	16729.5	12600.6	9963.9	8132.7	6849.7	5750.9	5317.0	5284.4
75°	7511.5	4975.2	3428.9	2642.3	2224.5	1934.2	1844.7	1776.8
77.5°	2102.4	1554.3	1386.3	1296.8	1209.8	1109.4	1071.5	1079.7
80°	1022.7	965.8	927.8	870.7	792.1	708.0	670.0	686.3
82.5°	678.2	670.0	694.5	653.7	539.8	458.5	385.3	352.7
85°	412.3	417.7	425.8	428.6	363.5	254.9	173.6	195.3
87.5°	162.8	187.1	203.5	211.6	198.0	122.1	97.6	100.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)