

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: P192598

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192598
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-10-LED-U-5NQ-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 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: 58779.3 lumens
Efficiency: N/A
Efficacy: 105.3 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 - G4

Input Watts (W): 558
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

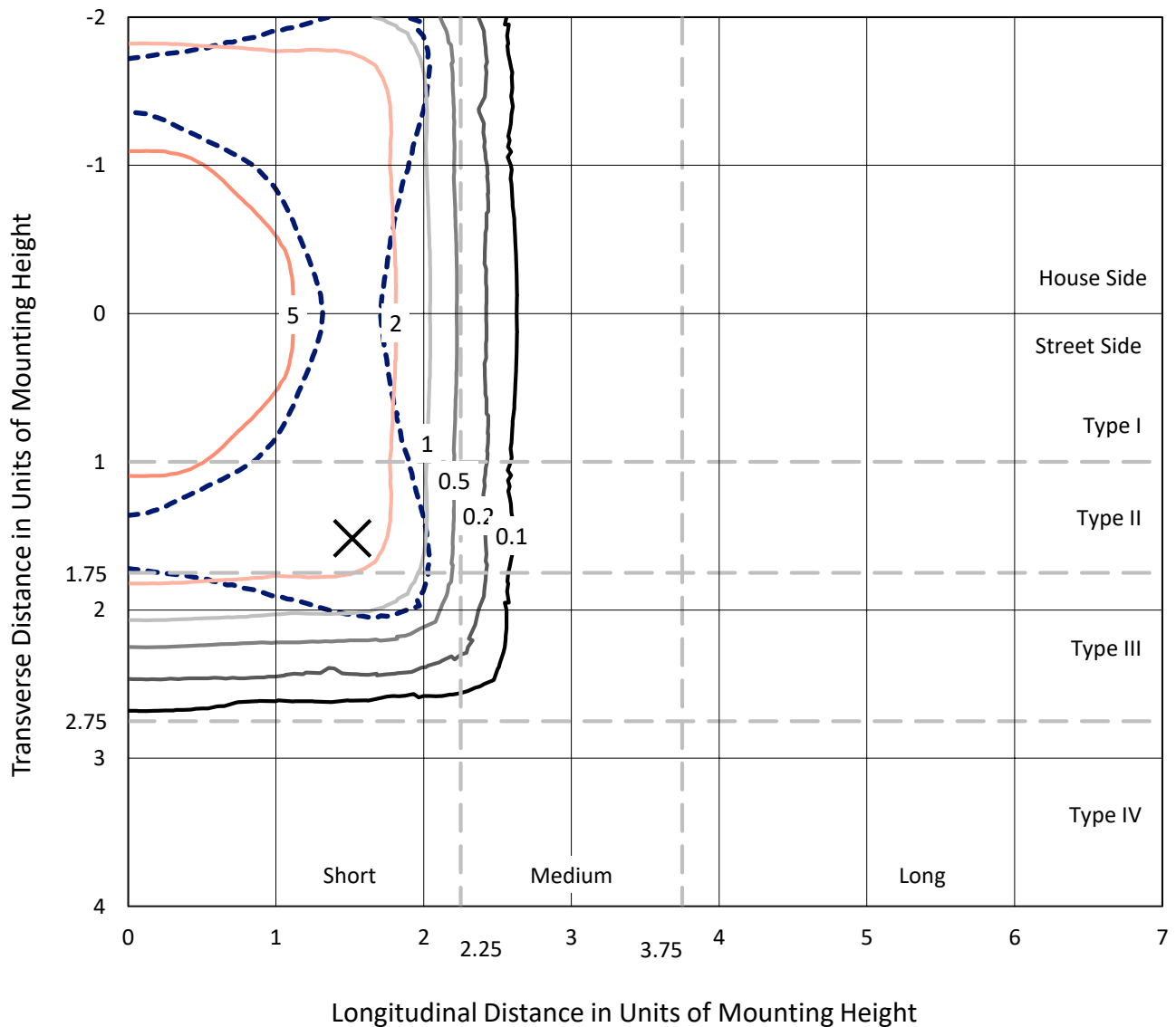


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

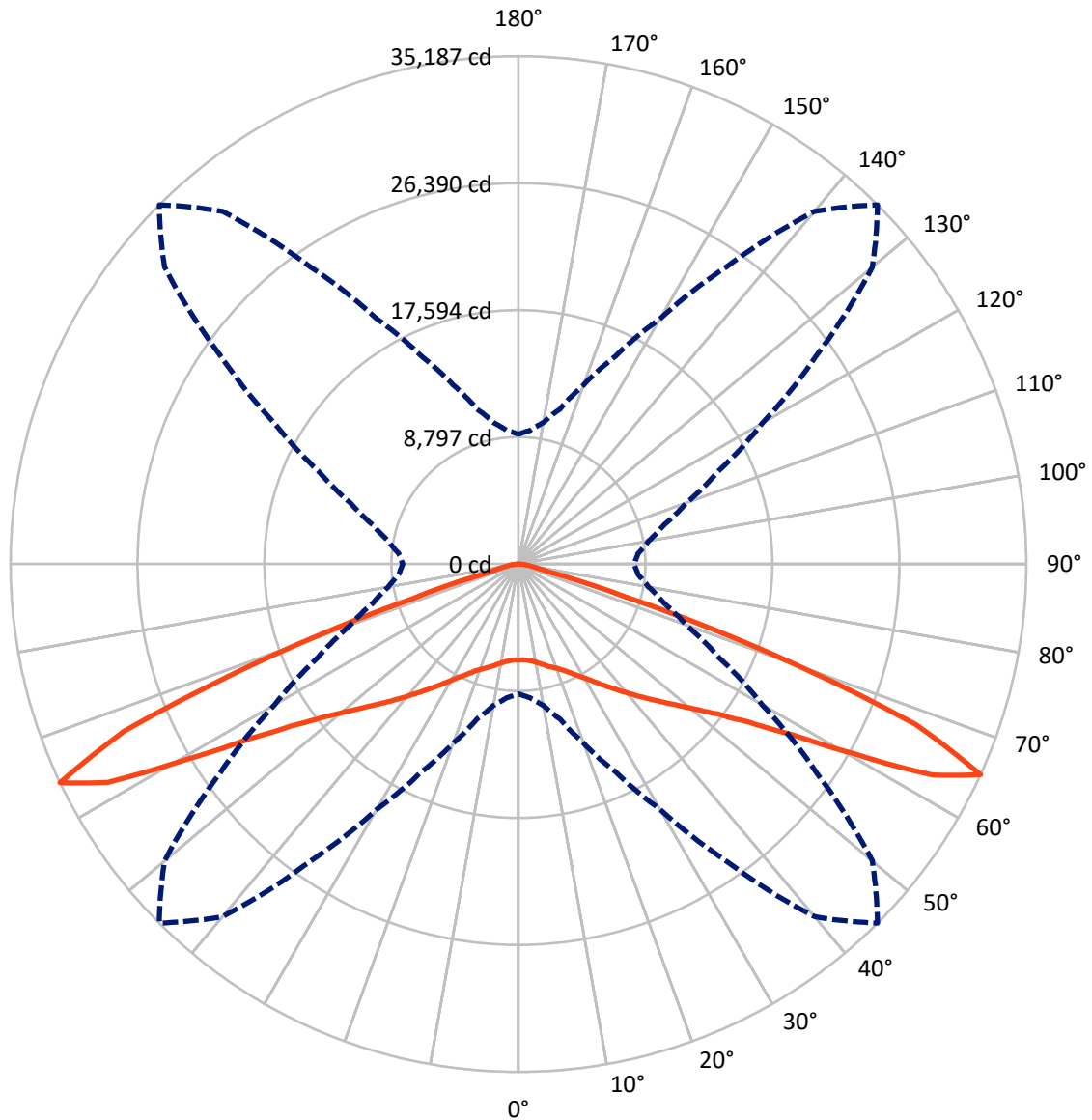


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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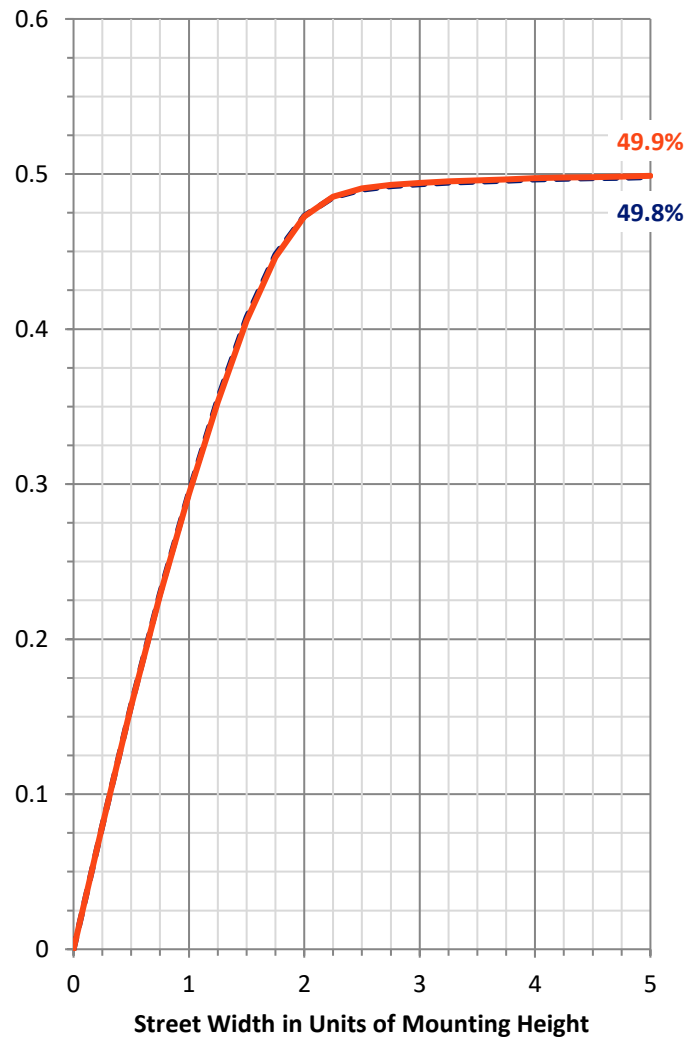
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29389.7	0.0	29389.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29389.7	0.0	29389.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	58779.3	0.0	58779.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.3	1.1
10°-20°	2079.1	3.5
20°-30°	3887.4	6.6
30°-40°	6574.7	11.2
40°-50°	10750.4	18.3
50°-60°	17094.8	29.1
60°-70°	15452.6	26.3
70°-80°	1955.6	3.3
80°-90°	336.4	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°	58779.3	100.0
0°-180°	58779.3	100.0



--- HS — SS

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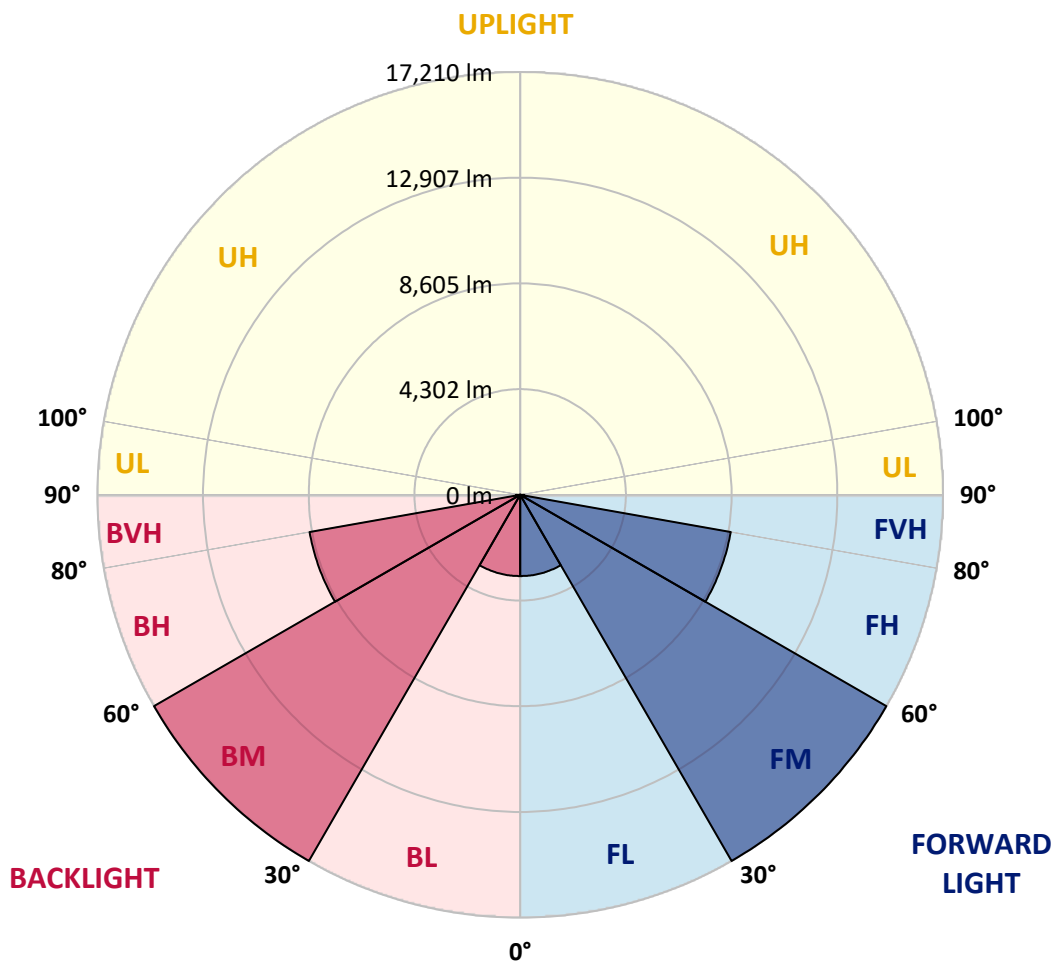
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3307.4	5.6			
FM (30°-60°)	17210.0	29.3			
FH (60°-80°)	8704.1	14.8			G4/12000
FVH (80°-90°)	168.2	0.3			G2/225
BL (0°-30°)	3307.4	5.6	B4/5000		
BM (30°-60°)	17210.0	29.3	B5		
BH (60°-80°)	8704.1	14.8	B5		G4/12000
BVH (80°-90°)	168.2	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9
2.5°	6656.4	6662.0	6667.4	6662.0	6667.4	6659.2	6653.7	6662.0	6653.7	6645.3	6650.9
5°	6714.2	6716.9	6716.9	6708.7	6716.9	6711.5	6703.2	6714.2	6706.0	6697.7	6703.2
7.5°	6810.5	6821.6	6813.3	6805.1	6810.5	6805.1	6799.5	6802.3	6799.5	6791.3	6794.1
10°	6939.9	6948.3	6942.7	6939.9	6945.5	6942.7	6937.2	6934.4	6937.2	6928.9	6928.9
12.5°	7096.8	7094.1	7091.4	7094.1	7102.4	7102.4	7099.6	7102.4	7107.9	7110.6	7105.1
15°	7251.0	7256.6	7256.6	7256.6	7273.1	7286.8	7295.1	7300.6	7311.6	7314.4	7303.3
17.5°	7443.8	7443.8	7441.0	7443.8	7460.2	7482.3	7490.5	7501.5	7512.5	7520.9	7507.1
20°	7658.4	7664.0	7664.0	7669.5	7691.6	7716.2	7716.2	7721.8	7716.2	7721.8	7713.4
22.5°	7919.9	7936.5	7936.5	7939.3	7961.2	7991.6	7983.2	7991.6	7977.8	7988.8	7977.8
25°	8261.3	8286.1	8280.6	8280.6	8297.1	8316.4	8319.1	8335.6	8332.8	8346.7	8338.4
27.5°	8646.8	8685.2	8696.3	8693.5	8704.5	8723.8	8729.3	8748.6	8737.6	8748.6	8743.0
30°	9109.2	9125.8	9147.7	9156.0	9169.8	9189.0	9189.0	9191.8	9178.0	9194.6	9202.8
32.5°	9588.1	9618.5	9640.5	9690.1	9714.9	9728.6	9725.8	9731.4	9717.6	9739.6	9756.1
35°	10221.4	10243.4	10279.2	10317.7	10350.7	10348.1	10339.8	10342.5	10342.5	10361.7	10378.3
37.5°	10984.0	10989.4	11036.2	11091.2	11107.9	11091.2	11041.7	11030.7	11005.9	11030.7	11058.2
40°	11790.5	11809.8	11903.4	11939.2	11947.4	11917.1	11845.6	11804.3	11749.2	11779.5	11818.0
42.5°	12635.7	12674.2	12759.6	12822.7	12850.3	12831.1	12732.0	12668.6	12597.0	12613.7	12652.1
45°	13571.6	13618.4	13739.6	13800.1	13852.4	13822.1	13725.8	13629.4	13516.6	13524.7	13585.4
47.5°	14617.7	14664.4	14821.3	14923.2	14950.8	14945.2	14838.0	14705.7	14551.5	14546.1	14598.4
50°	15790.3	15837.2	16032.7	16189.6	16269.4	16261.2	16134.6	15947.3	15760.1	15762.9	15828.9
52.5°	16935.6	16993.4	17197.1	17466.8	17623.8	17736.7	17659.6	17483.4	17254.9	17260.4	17321.0
55°	18009.2	18105.6	18339.6	18705.7	18997.5	19314.1	19404.9	19399.4	19261.8	19300.3	19360.8
57.5°	18529.5	18672.6	19033.3	19611.4	20206.0	20850.2	21395.2	21802.6	21976.1	22237.6	22177.0
60°	17544.0	17772.4	18303.7	19154.4	20329.9	21673.2	23113.0	24519.8	25719.9	26625.6	26105.4
62.5°	14364.5	14661.7	15305.9	16396.0	18174.4	20324.4	23079.9	26405.4	30028.2	32214.0	30653.1
65°	8988.1	9296.5	9951.6	11118.8	13199.9	15872.9	19611.4	25122.6	31891.9	35187.1	32010.2
67.5°	3504.4	3672.3	4027.4	4773.4	6337.0	8715.5	12467.7	18722.2	26818.3	29706.1	26320.1
70°	1756.4	1772.8	1839.0	1976.5	2312.4	3003.3	4569.8	8679.8	15380.2	18576.3	14826.9
72.5°	1269.0	1271.8	1304.9	1365.4	1472.9	1627.0	1924.3	2656.5	5002.0	7644.7	4688.1
75°	971.8	982.8	1002.0	1035.1	1092.9	1169.9	1277.4	1530.6	1896.7	2199.5	1849.9
77.5°	748.8	770.9	784.6	814.8	850.6	902.9	933.2	1029.6	1197.5	1260.9	1241.5
80°	569.9	589.1	619.4	644.2	669.0	693.7	682.8	726.8	814.8	867.2	839.6
82.5°	363.4	385.3	473.5	495.5	506.5	523.1	503.8	506.5	545.1	578.1	545.1
85°	234.1	247.8	300.0	327.6	330.3	341.3	333.1	313.8	313.8	286.3	322.1
87.5°	107.4	110.2	134.9	159.6	165.2	148.7	145.9	140.4	112.9	107.4	115.6
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°	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9
2.5°	6648.2	6653.7	6656.4	6664.7	6667.4	6667.4	6670.2	6675.6
5°	6700.5	6708.7	6711.5	6722.5	6725.2	6722.5	6727.9	6730.7
7.5°	6794.1	6807.8	6813.3	6824.4	6816.0	6827.1	6829.8	6829.8
10°	6931.7	6945.5	6948.3	6959.3	6953.7	6959.3	6959.3	6953.7
12.5°	7113.5	7116.2	7107.9	7116.2	7105.1	7110.6	7102.4	7096.8
15°	7314.4	7306.0	7286.8	7286.8	7270.3	7273.1	7270.3	7267.6
17.5°	7509.8	7493.3	7479.6	7474.0	7460.2	7457.5	7449.2	7449.2
20°	7724.5	7716.2	7708.0	7697.0	7683.2	7669.5	7666.7	7672.1
22.5°	7983.2	7980.6	7980.6	7975.1	7955.7	7941.9	7933.8	7933.8
25°	8330.2	8305.4	8305.4	8302.6	8294.4	8286.1	8269.7	8277.8
27.5°	8721.1	8707.3	8718.4	8715.5	8707.3	8707.3	8696.3	8696.3
30°	9202.8	9197.3	9213.9	9200.0	9172.6	9169.8	9158.7	9145.0
32.5°	9758.9	9753.3	9778.1	9761.7	9717.6	9692.8	9670.7	9659.8
35°	10378.3	10381.0	10411.4	10400.3	10350.7	10334.3	10295.7	10290.1
37.5°	11055.5	11099.5	11151.9	11162.8	11121.5	11110.6	11069.3	11047.2
40°	11851.1	11908.8	11988.7	12007.9	11963.9	11955.7	11897.9	11867.6
42.5°	12698.9	12798.1	12897.2	12913.7	12869.6	12825.6	12770.6	12748.5
45°	13645.9	13764.3	13893.7	13926.7	13860.6	13808.3	13736.7	13736.7
47.5°	14708.5	14857.2	15003.1	15093.9	15033.4	14978.4	14893.0	14838.0
50°	15963.9	16167.5	16357.5	16451.0	16354.7	16250.1	16101.4	16052.0
52.5°	17538.6	17758.7	17923.9	17874.3	17725.6	17579.9	17417.3	17351.3
55°	19548.0	19622.4	19622.4	19435.1	19137.9	18892.9	18636.9	18551.5
57.5°	22061.4	21775.2	21334.6	20775.8	20073.8	19462.7	19049.8	18854.4
60°	25015.2	23638.8	22083.5	20555.6	19300.3	18265.2	17651.4	17370.6
62.5°	26983.5	23382.8	20266.5	17813.7	16007.9	14760.8	13913.0	13582.6
65°	25218.9	19501.2	15327.9	12393.4	10425.1	9156.0	8316.4	8008.0
67.5°	18471.7	12220.0	8162.2	5849.8	4286.2	3419.0	3075.0	2931.8
70°	8291.5	4302.7	2637.2	2059.1	1775.6	1629.7	1566.3	1544.4
72.5°	2499.7	1808.7	1525.0	1376.4	1263.6	1192.0	1139.7	1134.2
75°	1508.6	1255.3	1114.9	1026.8	955.3	897.4	869.9	861.6
77.5°	1054.4	922.2	856.1	792.7	737.7	693.7	669.0	649.6
80°	740.6	677.2	647.0	611.1	575.4	534.1	498.2	481.8
82.5°	495.5	481.8	481.8	459.8	429.5	390.9	319.4	302.8
85°	319.4	316.7	322.1	313.8	291.8	250.5	206.5	195.5
87.5°	148.7	151.5	167.9	165.2	159.6	132.1	104.6	99.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)