

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: LUMARK

Report Number: P395114

Luminaire Tested: **LAS100S-T3**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LAS100S-T3  
Description: AREA SITE LARGE HOUSING, TYPE III  
Light Source: (288) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33965 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B4 - U0 - G4

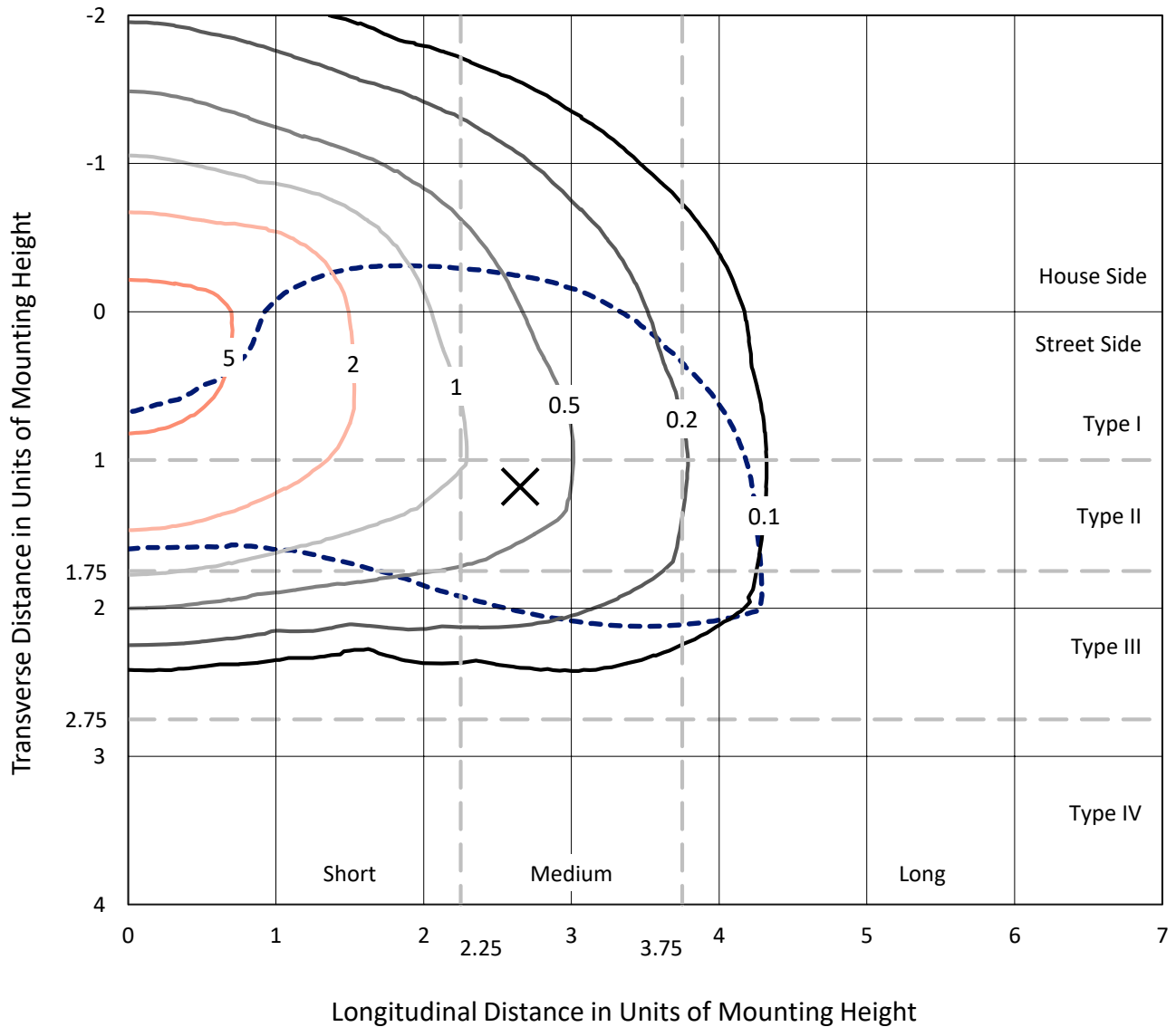
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P395114  
 CATALOG NUMBER: LAS100S-T3

### Iso-Footcandle Lines of Horizontal Illumination

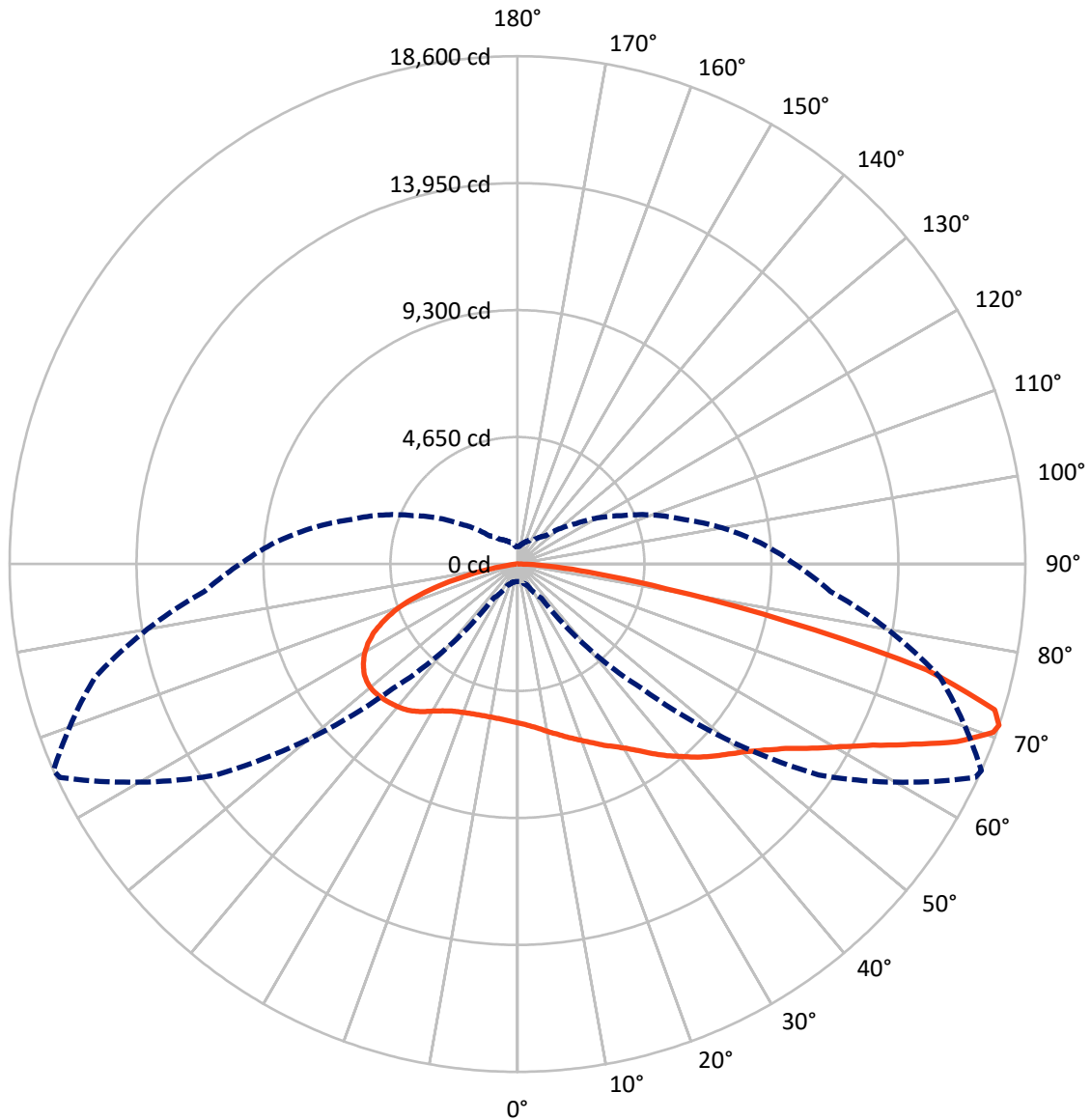
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P395114  
CATALOG NUMBER: LAS100S-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P395114  
 CATALOG NUMBER: LAS100S-T3

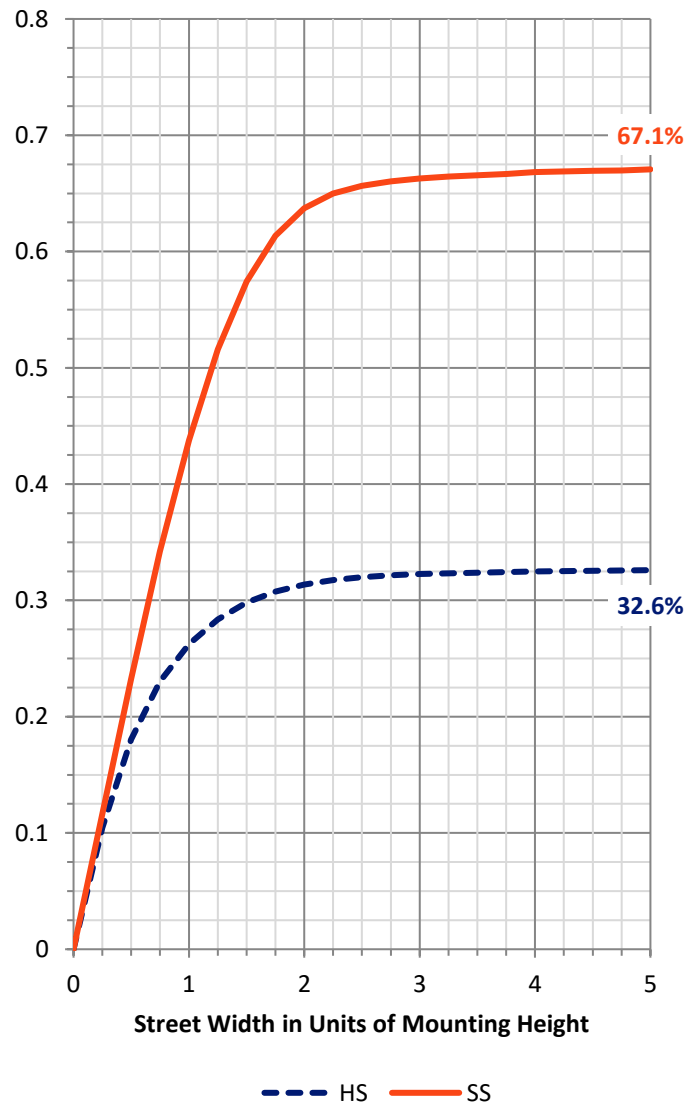
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11144.3	0.0	11144.3
	% Fixture	32.8	0.0	32.8
<b>Street Side</b>	Lumens	22820.7	0.0	22820.7
	% Fixture	67.2	0.0	67.2
<b>Total</b>	Lumens	33965.0	0.0	33965.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.6	1.6
10°-20°	1689.4	5.0
20°-30°	2913.2	8.6
30°-40°	4375.5	12.9
40°-50°	5901.9	17.4
50°-60°	7226.7	21.3
60°-70°	6822.3	20.1
70°-80°	3948.4	11.6
80°-90°	529.1	1.6
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°	33965.0	100.0
0°-180°	33965.0	100.0

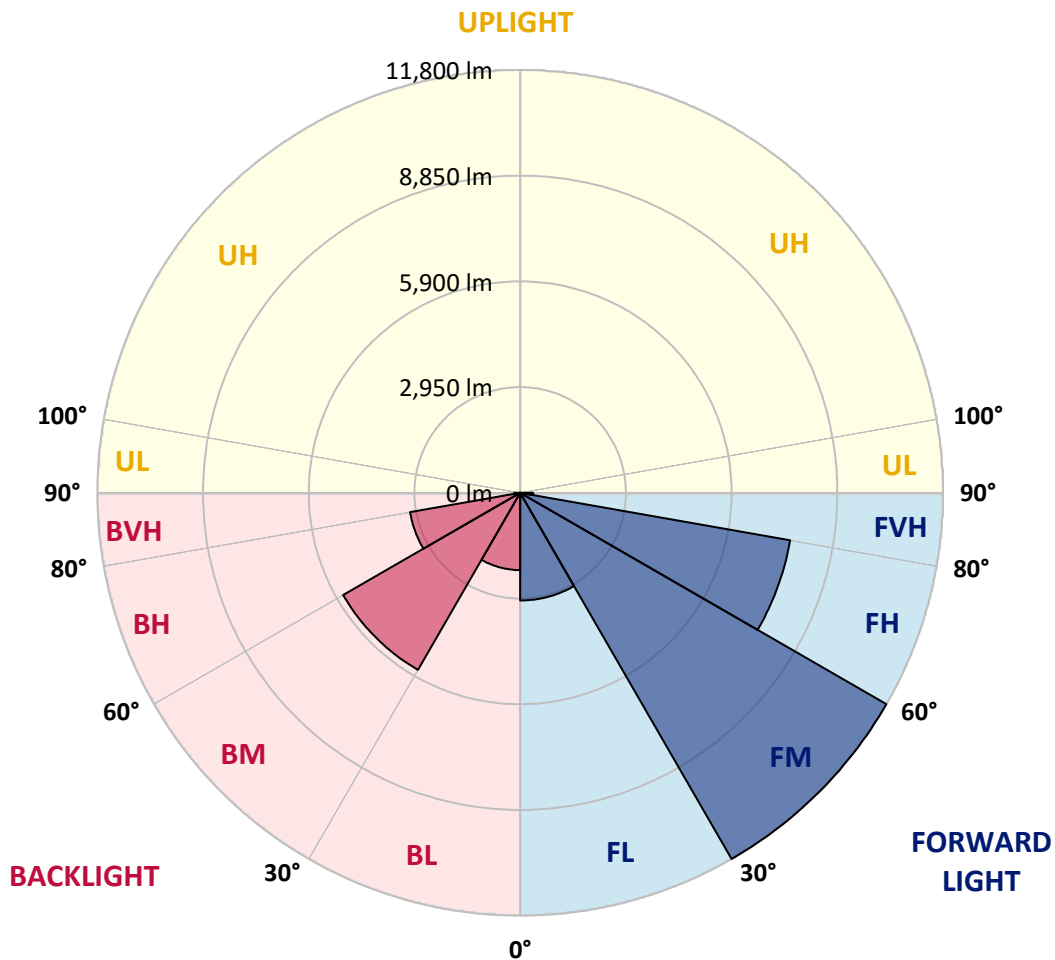


REPORT NUMBER: P395114  
 CATALOG NUMBER: LAS100S-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3005.3	8.8			
FM	(30°-60°)	11799.5	34.7			
FH	(60°-80°)	7650.6	22.5			G4/12000
FVH	(80°-90°)	365.3	1.1			G3/500
BL	(0°-30°)	2155.9	6.3	B3/2500		
BM	(30°-60°)	5704.5	16.8	B4/8500		
BH	(60°-80°)	3120.0	9.2	B4/5000		G4/5000
BVH	(80°-90°)	163.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type III Medium





REPORT NUMBER: P395114  
 CATALOG NUMBER: LAS100S-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0
2.5°	5973.4	5970.5	5972.4	5965.6	5948.0	5941.2	5923.6	5894.3	5893.3	5868.0	5851.4
5°	6128.6	6125.6	6116.9	6106.1	6087.6	6078.8	6045.6	5991.0	5986.1	5950.0	5906.0
7.5°	6272.1	6271.1	6269.1	6248.6	6229.1	6206.7	6174.4	6117.8	6102.2	6050.5	5983.1
10°	6442.9	6434.1	6427.2	6409.7	6390.2	6361.8	6314.0	6249.6	6248.6	6178.4	6082.7
12.5°	6610.7	6614.6	6601.0	6584.4	6546.3	6520.9	6467.3	6407.7	6386.2	6316.0	6202.8
15°	6797.2	6799.1	6775.7	6762.0	6737.6	6700.5	6627.3	6559.0	6556.1	6466.3	6339.4
17.5°	7020.7	7030.4	7002.1	6983.6	6942.6	6887.0	6809.9	6735.7	6726.9	6636.1	6499.5
20°	7268.6	7256.9	7251.0	7213.9	7175.9	7102.7	7018.7	6933.8	6916.2	6817.7	6676.1
22.5°	7528.2	7525.3	7524.3	7473.6	7431.6	7328.1	7220.8	7134.9	7115.4	7016.8	6862.6
25°	7861.0	7870.8	7823.0	7783.0	7714.6	7580.9	7461.8	7338.9	7350.6	7240.3	7092.9
27.5°	8279.8	8279.8	8257.3	8193.9	8083.6	7896.2	7737.1	7578.0	7572.1	7482.3	7329.1
30°	8825.4	8821.5	8804.9	8744.4	8553.1	8335.4	8048.4	7860.1	7829.8	7710.7	7633.6
32.5°	9112.3	9127.0	9155.3	9142.6	9054.7	8843.9	8469.1	8156.8	8144.1	8010.4	7929.4
35°	9295.8	9310.5	9348.5	9386.6	9336.8	9202.1	8870.3	8562.8	8526.7	8328.6	8257.3
37.5°	9526.2	9530.1	9552.5	9605.2	9601.3	9498.8	9245.1	8943.5	8909.3	8681.9	8624.3
40°	9803.4	9804.3	9821.9	9860.0	9859.0	9765.3	9607.2	9323.2	9263.6	9075.2	8988.4
42.5°	10124.5	10098.1	10122.5	10156.7	10156.7	10085.4	9969.3	9693.1	9671.6	9449.1	9330.0
45°	10419.3	10408.5	10424.1	10442.7	10448.5	10413.4	10310.9	10070.8	10037.6	9802.4	9636.5
47.5°	10718.9	10708.2	10691.6	10756.0	10783.3	10826.3	10721.8	10439.8	10403.6	10090.3	9894.1
50°	10943.4	10936.6	10937.5	11005.9	11119.1	11233.3	11208.9	10868.2	10798.0	10388.0	10124.5
52.5°	10934.6	10925.8	10949.2	11113.2	11376.8	11662.7	11745.7	11393.3	11322.1	10758.9	10339.2
55°	10436.8	10462.2	10583.2	10985.4	11501.7	12128.3	12407.5	12052.2	11920.4	11195.2	10602.8
57.5°	9573.0	9524.2	9799.5	10392.9	11318.2	12440.6	13077.0	12803.7	12727.6	11706.7	10853.6
60°	8056.3	8048.4	8541.3	9341.7	10730.6	12544.1	13786.6	13709.5	13574.8	12311.8	11080.0
62.5°	5978.3	6006.6	6382.3	7657.1	9644.3	12227.9	14496.2	14750.0	14610.4	13026.3	11297.7
65°	3530.3	3539.1	3945.2	5151.6	7811.3	11371.9	14982.3	16042.2	15910.5	13944.7	11511.4
67.5°	1480.7	1568.5	1837.9	2641.2	5343.8	9793.6	14989.1	17346.2	17361.8	14996.9	11695.9
70°	726.2	736.9	847.2	1078.5	2226.4	7630.7	14087.2	18395.5	18480.4	15905.6	11660.8
71°	644.2	645.2	692.0	856.0	1529.5	6452.6	13467.4	18496.0	18600.4	16022.7	11503.6
72.5°	572.0	571.0	599.3	667.6	990.7	4521.0	11942.9	18130.0	18276.4	15674.3	11035.1
75°	459.7	462.6	483.1	520.2	689.1	2053.6	8690.7	15289.7	15489.8	13272.2	9196.3
77.5°	350.4	358.2	384.6	412.9	515.4	1242.5	5505.9	10418.3	10085.4	8435.9	6586.3
80°	262.6	265.5	283.1	314.3	378.7	778.9	3092.1	5394.6	5536.1	4450.8	3567.4
82.5°	182.5	188.4	202.0	217.7	245.0	492.9	1875.0	2920.3	2898.8	1908.2	1392.8
85°	108.3	113.2	118.1	129.8	139.6	251.8	1037.5	1469.9	1432.8	492.9	292.8
87.5°	40.0	42.0	46.9	43.9	50.8	83.0	356.3	368.0	359.2	84.9	62.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P395114  
 CATALOG NUMBER: LAS100S-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0	5824.0
2.5°	5831.9	5825.0	5798.7	5768.4	5742.1	5722.5	5699.1	5681.5	5675.7	5658.1	5662.0
5°	5869.9	5848.4	5784.0	5722.5	5659.1	5605.4	5557.6	5520.5	5493.2	5472.7	5488.3
7.5°	5931.4	5891.4	5796.7	5691.3	5588.8	5502.0	5425.8	5353.6	5303.8	5287.2	5277.5
10°	6017.3	5962.6	5822.1	5672.8	5529.3	5399.5	5272.6	5184.7	5100.8	5066.6	5047.1
12.5°	6125.6	6046.6	5861.1	5670.8	5477.6	5291.1	5101.8	4969.0	4855.8	4818.7	4795.3
15°	6255.5	6155.9	5926.5	5681.5	5421.9	5149.6	4917.3	4736.7	4599.1	4547.4	4533.7
17.5°	6395.0	6279.9	6005.6	5701.1	5365.3	5015.9	4731.9	4513.2	4361.9	4302.4	4300.4
20°	6566.8	6437.0	6106.1	5740.1	5308.7	4884.1	4547.4	4309.2	4154.0	4077.9	4064.2
22.5°	6765.0	6616.6	6242.8	5785.0	5261.8	4750.4	4372.7	4100.4	3941.3	3872.9	3857.3
25°	6973.8	6812.8	6406.7	5859.2	5220.9	4639.1	4208.7	3927.6	3763.6	3687.5	3671.9
27.5°	7234.4	7056.8	6600.0	5972.4	5200.4	4534.7	4068.1	3765.6	3599.6	3510.8	3505.0
30°	7527.2	7353.5	6857.7	6105.1	5208.2	4450.8	3947.1	3623.1	3443.5	3357.6	3336.1
32.5°	7835.7	7670.7	7131.0	6287.7	5228.7	4373.6	3824.1	3478.6	3291.2	3199.5	3185.8
35°	8177.3	8021.1	7419.9	6452.6	5238.4	4276.0	3679.7	3334.2	3142.9	3062.8	3047.2
37.5°	8544.3	8364.7	7715.6	6583.4	5213.0	4153.1	3538.2	3204.3	3020.9	2949.6	2940.8
40°	8898.6	8701.4	7953.8	6674.2	5170.1	4032.0	3413.2	3091.1	2929.1	2868.6	2857.9
42.5°	9209.9	8989.4	8136.3	6746.4	5123.2	3923.7	3309.8	3008.2	2864.7	2812.0	2802.2
45°	9497.9	9240.2	8316.9	6810.8	5078.4	3826.1	3232.7	2946.7	2813.9	2767.1	2761.2
47.5°	9728.2	9467.6	8462.3	6854.7	5014.9	3749.0	3163.4	2893.0	2774.9	2738.8	2735.8
50°	9957.6	9666.7	8586.2	6861.6	4944.6	3672.8	3102.8	2844.2	2739.8	2715.4	2715.4
52.5°	10159.6	9842.4	8673.1	6814.7	4846.1	3587.0	3028.7	2789.5	2698.8	2691.9	2693.9
55°	10357.8	10005.4	8695.6	6704.4	4731.9	3501.1	2946.7	2715.4	2635.3	2640.2	2644.1
57.5°	10522.7	10078.6	8633.1	6516.1	4594.2	3380.0	2835.4	2598.2	2505.5	2508.4	2517.2
60°	10616.4	10066.9	8477.9	6282.8	4397.1	3220.0	2670.5	2410.8	2278.1	2253.7	2266.4
62.5°	10666.2	9989.8	8215.4	5975.3	4165.8	3008.2	2406.9	2105.3	1944.3	1957.9	1948.2
65°	10663.3	9852.2	7865.9	5601.5	3851.5	2660.7	2057.5	1742.2	1633.9	1598.8	1595.8
67.5°	10594.9	9592.5	7366.2	5083.2	3427.9	2215.6	1639.8	1389.9	1279.6	1275.7	1263.0
70°	10333.4	9175.8	6691.7	4496.6	2818.8	1656.3	1252.3	1047.3	948.7	827.7	822.8
71°	10151.8	8927.9	6298.4	4197.0	2544.5	1464.1	1102.9	937.0	783.8	638.3	638.3
72.5°	9616.9	8467.2	5755.7	3727.5	2074.1	1197.6	910.6	752.5	533.9	500.7	502.7
75°	8350.0	7239.3	4709.4	2799.3	1402.6	821.8	635.4	492.9	366.0	398.2	409.0
77.5°	6278.9	5526.4	3500.1	1761.8	798.4	524.1	439.2	324.0	290.9	328.0	327.0
80°	3598.7	3431.8	2158.0	941.9	348.4	329.9	310.4	236.2	222.5	248.9	248.9
82.5°	1770.5	1902.3	1179.1	351.4	160.1	192.3	199.1	165.0	155.2	167.9	171.8
85°	580.7	838.4	434.3	125.9	91.7	95.7	87.8	84.9	83.9	86.9	85.9
87.5°	83.9	151.3	62.5	48.8	38.1	33.2	27.3	25.4	21.5	18.5	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)