

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: P395119

Luminaire Tested: **LAS100S-T3-Switch-5**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395119
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-Switch-5
Description: AREA SITE LARGE HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 5
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20429 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

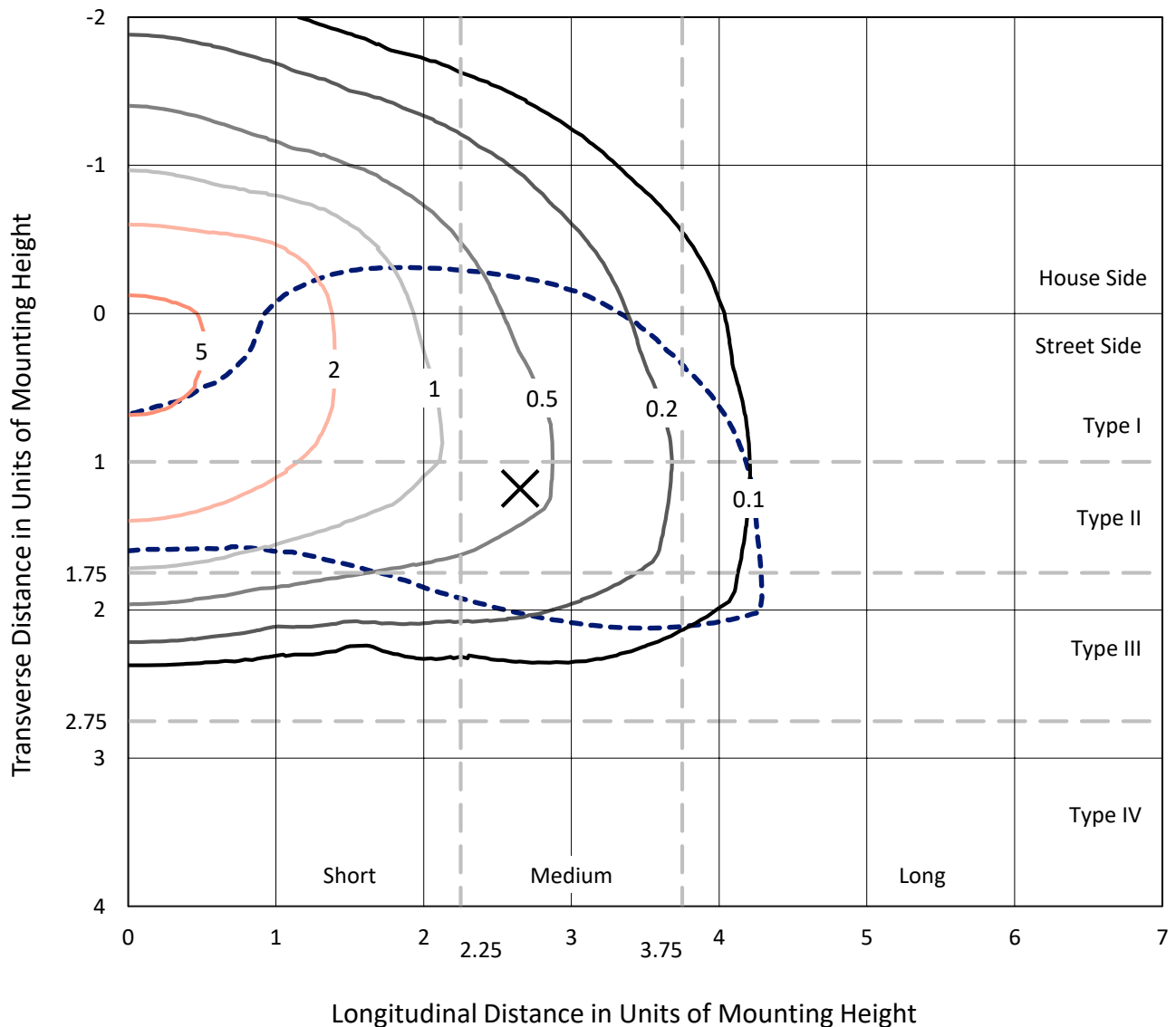
Input Watts (W): 129.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395119
 CATALOG NUMBER: LAS100S-T3-Switch-5

Iso-Footcandle Lines of Horizontal Illumination

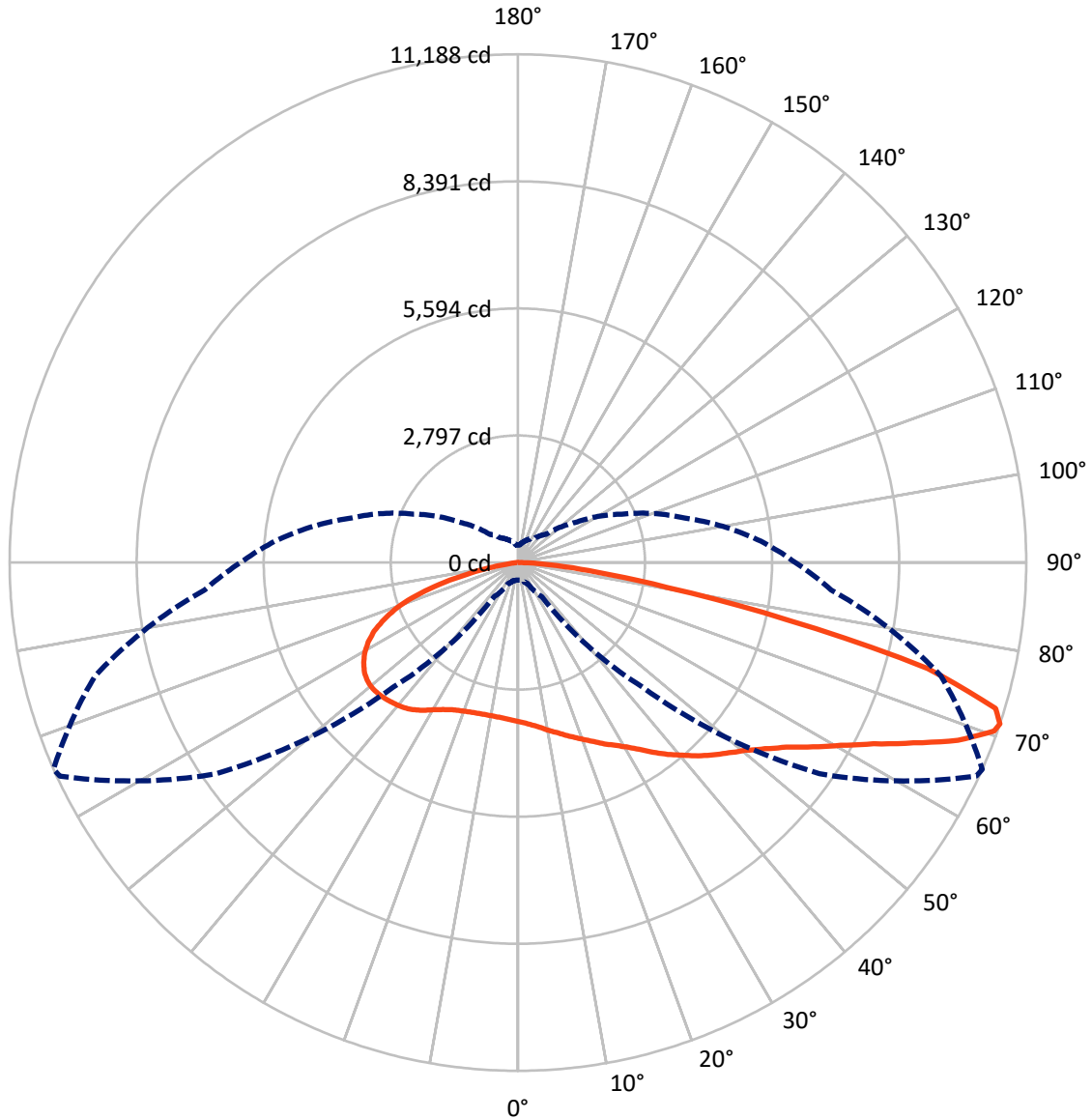
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P395119
CATALOG NUMBER: LAS100S-T3-Switch-5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P395119

CATALOG NUMBER: LAS100S-T3-Switch-5

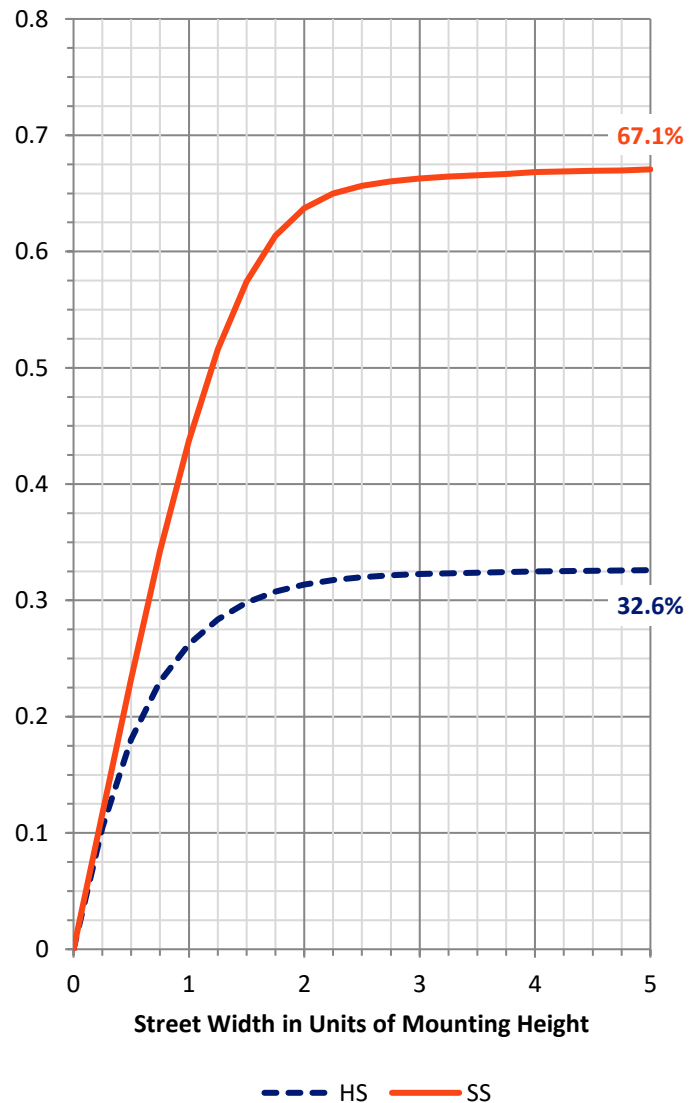
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6703.0	0.0	6703.0
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	13726.0	0.0	13726.0
	% Fixture	67.2	0.0	67.2
Total	Lumens	20429.0	0.0	20429.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	1.6
10°-20°	1016.1	5.0
20°-30°	1752.2	8.6
30°-40°	2631.7	12.9
40°-50°	3549.8	17.4
50°-60°	4346.6	21.3
60°-70°	4103.4	20.1
70°-80°	2374.8	11.6
80°-90°	318.3	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°	20429.0	100.0
0°-180°	20429.0	100.0



REPORT NUMBER: P395119

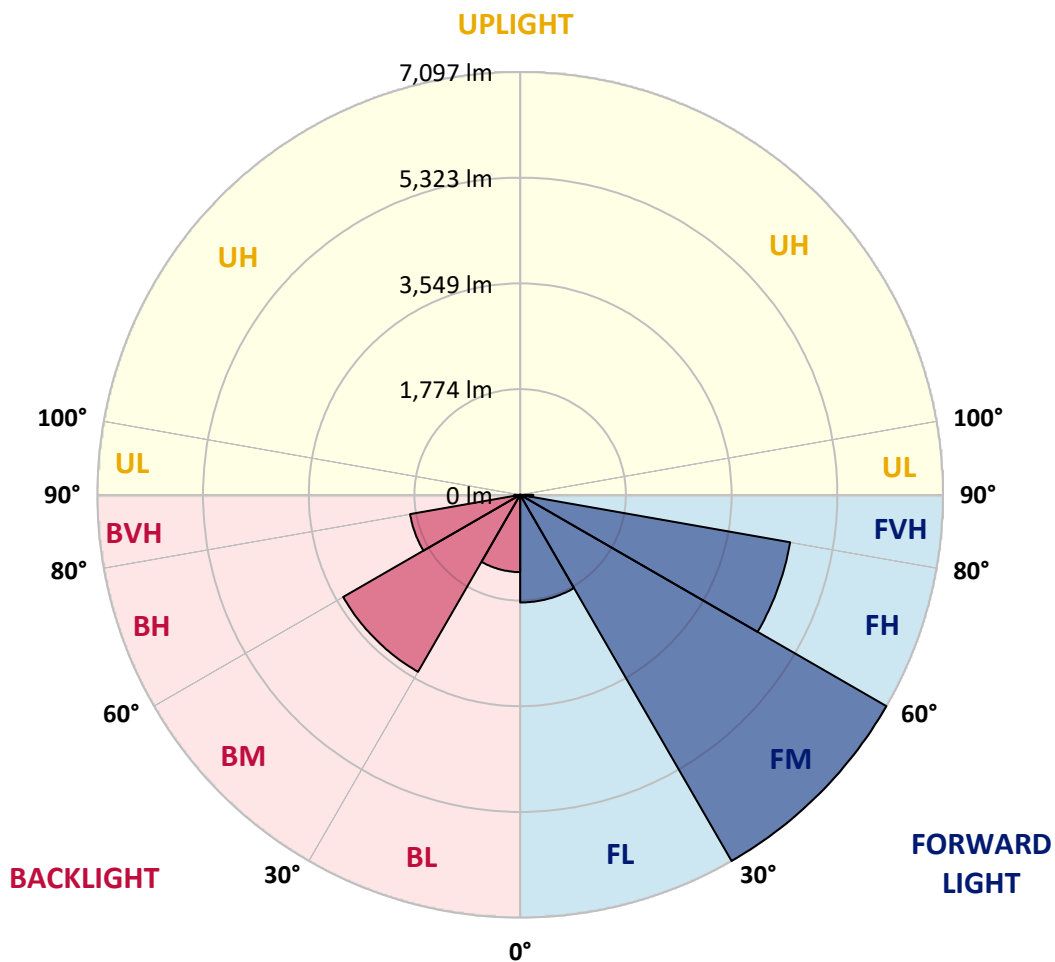
CATALOG NUMBER: LAS100S-T3-Switch-5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1807.6	8.8			
FM	(30°-60°)	7097.1	34.7			
FH	(60°-80°)	4601.6	22.5			G2/5000
FVH	(80°-90°)	219.7	1.1			G2/225
BL	(0°-30°)	1296.7	6.3	B3/2500		
BM	(30°-60°)	3431.1	16.8	B3/5000		
BH	(60°-80°)	1876.6	9.2	B3/2500		G3/2500
BVH	(80°-90°)	98.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





REPORT NUMBER: P395119

CATALOG NUMBER: LAS100S-T3-Switch-5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0
2.5°	3592.8	3591.1	3592.2	3588.1	3577.6	3573.4	3562.9	3545.3	3544.7	3529.4	3519.4
5°	3686.2	3684.4	3679.1	3672.7	3661.5	3656.2	3636.3	3603.4	3600.5	3578.7	3552.3
7.5°	3772.5	3771.9	3770.7	3758.4	3746.6	3733.1	3713.8	3679.7	3670.3	3639.2	3598.7
10°	3875.2	3869.9	3865.8	3855.2	3843.5	3826.5	3797.7	3759.0	3758.4	3716.1	3658.6
12.5°	3976.2	3978.5	3970.3	3960.3	3937.4	3922.2	3889.9	3854.1	3841.1	3798.9	3730.8
15°	4088.3	4089.5	4075.4	4067.2	4052.5	4030.2	3986.2	3945.1	3943.3	3889.3	3813.0
17.5°	4222.7	4228.6	4211.6	4200.4	4175.8	4142.3	4095.9	4051.3	4046.0	3991.4	3909.2
20°	4371.9	4364.8	4361.3	4339.0	4316.1	4272.1	4221.6	4170.5	4159.9	4100.6	4015.5
22.5°	4528.0	4526.3	4525.7	4495.1	4469.9	4407.7	4343.1	4291.4	4279.7	4220.4	4127.6
25°	4728.2	4734.1	4705.3	4681.2	4640.1	4559.7	4488.1	4414.1	4421.2	4354.8	4266.2
27.5°	4980.1	4980.1	4966.5	4928.4	4862.1	4749.3	4653.6	4558.0	4554.4	4500.4	4408.3
30°	5308.2	5305.9	5295.9	5259.5	5144.4	5013.5	4840.9	4727.6	4709.4	4637.8	4591.4
32.5°	5480.8	5489.6	5506.6	5499.0	5446.2	5319.4	5093.9	4906.1	4898.4	4818.0	4769.3
35°	5591.2	5600.0	5622.9	5645.8	5615.8	5534.8	5335.2	5150.3	5128.6	5009.4	4966.5
37.5°	5729.7	5732.1	5745.6	5777.3	5774.9	5713.3	5560.7	5379.3	5358.7	5221.9	5187.3
40°	5896.5	5897.0	5907.6	5930.5	5929.9	5873.6	5778.5	5607.6	5571.8	5458.5	5406.3
42.5°	6089.6	6073.7	6088.4	6109.0	6109.0	6066.1	5996.3	5830.1	5817.2	5683.4	5611.7
45°	6266.9	6260.4	6269.8	6281.0	6284.5	6263.4	6201.7	6057.3	6037.4	5895.9	5796.1
47.5°	6447.1	6440.7	6430.7	6469.4	6485.9	6511.7	6448.9	6279.2	6257.5	6069.1	5951.1
50°	6582.1	6578.0	6578.6	6619.7	6687.8	6756.5	6741.8	6536.9	6494.7	6248.1	6089.6
52.5°	6576.9	6571.6	6585.7	6684.3	6842.8	7014.8	7064.7	6852.8	6809.9	6471.2	6218.8
55°	6277.5	6292.7	6365.5	6607.4	6917.9	7294.8	7462.7	7249.0	7169.8	6733.6	6377.3
57.5°	5757.9	5728.6	5894.1	6251.0	6807.6	7482.7	7865.5	7701.1	7655.3	7041.2	6528.1
60°	4845.6	4840.9	5137.4	5618.8	6454.2	7544.9	8292.3	8245.9	8164.9	7405.2	6664.3
62.5°	3595.8	3612.8	3838.8	4605.5	5800.8	7354.7	8719.1	8871.7	8787.7	7834.9	6795.2
65°	2123.4	2128.7	2372.9	3098.5	4698.3	6839.9	9011.4	9649.0	9569.7	8387.4	6923.8
67.5°	890.6	943.4	1105.4	1588.6	3214.2	5890.6	9015.5	10433.3	10442.7	9020.2	7034.8
70°	436.8	443.2	509.6	648.7	1339.1	4589.7	8473.1	11064.4	11115.4	9566.8	7013.6
71°	387.5	388.0	416.2	514.9	919.9	3881.1	8100.3	11124.8	11187.6	9637.2	6919.1
72.5°	344.0	343.4	360.5	401.6	595.9	2719.3	7183.3	10904.7	10992.7	9427.6	6637.3
75°	276.5	278.3	290.6	312.9	414.5	1235.2	5227.2	9196.3	9316.7	7982.9	5531.3
77.5°	210.8	215.5	231.3	248.3	310.0	747.3	3311.6	6266.3	6066.1	5074.0	3961.5
80°	157.9	159.7	170.2	189.0	227.8	468.5	1859.8	3244.7	3329.8	2677.0	2145.7
82.5°	109.8	113.3	121.5	130.9	147.4	296.5	1127.7	1756.5	1743.6	1147.7	837.7
85°	65.2	68.1	71.0	78.1	83.9	151.5	624.0	884.1	861.8	296.5	176.1
87.5°	24.1	25.2	28.2	26.4	30.5	49.9	214.3	221.3	216.0	51.1	37.6
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: P395119

CATALOG NUMBER: LAS100S-T3-Switch-5

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0	3503.0
2.5°	3507.7	3503.6	3487.7	3469.5	3453.7	3441.9	3427.9	3417.3	3413.8	3403.2	3405.5
5°	3530.6	3517.7	3478.9	3441.9	3403.8	3371.5	3342.7	3320.4	3304.0	3291.7	3301.1
7.5°	3567.6	3543.5	3486.6	3423.2	3361.5	3309.3	3263.5	3220.0	3190.1	3180.1	3174.2
10°	3619.2	3586.4	3501.8	3412.0	3325.7	3247.6	3171.3	3118.5	3068.0	3047.4	3035.7
12.5°	3684.4	3636.9	3525.3	3410.8	3294.6	3182.5	3068.6	2988.7	2920.6	2898.3	2884.2
15°	3762.5	3702.6	3564.6	3417.3	3261.1	3097.3	2957.6	2849.0	2766.2	2735.1	2726.9
17.5°	3846.4	3777.2	3612.2	3429.0	3227.1	3016.9	2846.1	2714.6	2623.6	2587.8	2586.6
20°	3949.8	3871.7	3672.7	3452.5	3193.0	2937.7	2735.1	2591.9	2498.5	2452.7	2444.5
22.5°	4068.9	3979.7	3754.9	3479.5	3164.9	2857.2	2630.0	2466.2	2370.6	2329.5	2320.1
25°	4194.6	4097.7	3853.5	3524.1	3140.2	2790.3	2531.4	2362.3	2263.7	2217.9	2208.5
27.5°	4351.3	4244.5	3969.7	3592.2	3127.9	2727.5	2446.9	2264.9	2165.1	2111.7	2108.1
30°	4527.4	4422.9	4124.7	3672.1	3132.6	2677.0	2374.1	2179.2	2071.2	2019.5	2006.6
32.5°	4712.9	4613.7	4289.1	3781.9	3144.9	2630.6	2300.1	2092.3	1979.6	1924.4	1916.2
35°	4918.4	4824.5	4462.8	3881.1	3150.8	2571.9	2213.2	2005.4	1890.3	1842.2	1832.8
37.5°	5139.1	5031.1	4640.7	3959.7	3135.5	2498.0	2128.1	1927.3	1817.0	1774.1	1768.8
40°	5352.2	5233.7	4784.0	4014.3	3109.7	2425.2	2053.0	1859.2	1761.8	1725.4	1718.9
42.5°	5539.5	5406.8	4893.8	4057.8	3081.5	2360.0	1990.7	1809.3	1723.0	1691.3	1685.5
45°	5712.7	5557.7	5002.4	4096.5	3054.5	2301.3	1944.4	1772.3	1692.5	1664.3	1660.8
47.5°	5851.3	5694.5	5089.8	4122.9	3016.3	2254.9	1902.7	1740.1	1669.0	1647.3	1645.5
50°	5989.2	5814.3	5164.4	4127.0	2974.1	2209.1	1866.3	1710.7	1647.9	1633.2	1633.2
52.5°	6110.7	5919.9	5216.6	4098.9	2914.8	2157.5	1821.7	1677.8	1623.2	1619.1	1620.3
55°	6229.9	6018.0	5230.1	4032.5	2846.1	2105.8	1772.3	1633.2	1585.1	1588.0	1590.4
57.5°	6329.1	6062.0	5192.6	3919.2	2763.3	2033.0	1705.4	1562.8	1507.0	1508.8	1514.0
60°	6385.5	6055.0	5099.2	3778.9	2644.7	1936.7	1606.2	1450.0	1370.2	1355.5	1363.2
62.5°	6415.4	6008.6	4941.3	3594.0	2505.6	1809.3	1447.7	1266.3	1169.4	1177.6	1171.8
65°	6413.7	5925.8	4731.1	3369.2	2316.5	1600.3	1237.5	1047.9	982.7	961.6	959.8
67.5°	6372.6	5769.6	4430.6	3057.4	2061.8	1332.6	986.3	836.0	769.6	767.3	759.7
70°	6215.2	5519.0	4024.9	2704.6	1695.4	996.2	753.2	629.9	570.6	497.8	494.9
71°	6106.0	5369.9	3788.3	2524.4	1530.5	880.6	663.4	563.6	471.4	383.9	383.9
72.5°	5784.3	5092.8	3461.9	2242.0	1247.5	720.3	547.7	452.6	321.1	301.2	302.3
75°	5022.3	4354.2	2832.6	1683.7	843.6	494.3	382.2	296.5	220.1	239.5	246.0
77.5°	3776.6	3323.9	2105.2	1059.6	480.2	315.3	264.2	194.9	174.9	197.3	196.7
80°	2164.5	2064.1	1298.0	566.5	209.6	198.4	186.7	142.1	133.9	149.7	149.7
82.5°	1064.9	1144.2	709.2	211.3	96.3	115.7	119.8	99.2	93.3	101.0	103.3
85°	349.3	504.3	261.2	75.7	55.2	57.5	52.8	51.1	50.5	52.2	51.7
87.5°	50.5	91.0	37.6	29.4	22.9	20.0	16.4	15.3	12.9	11.2	10.6
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)