

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: P395117

Luminaire Tested: **LAS100S-T3-Switch-3**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395117
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-3
Description: AREA SITE LARGE HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 3
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24541 lumens
Efficiency: N/A
Efficacy: 150.7 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

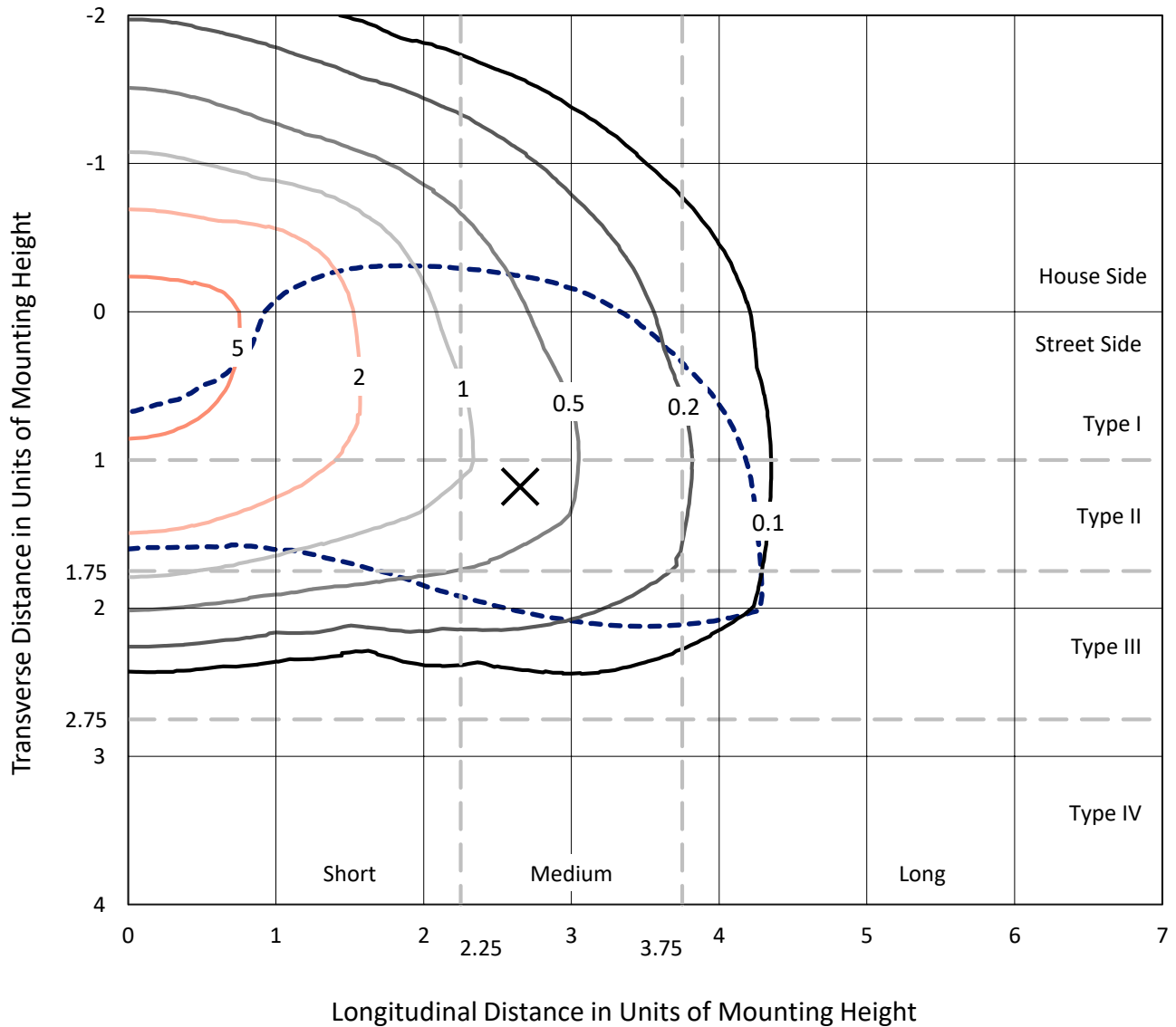
Input Watts (W): 162.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395117
 CATALOG NUMBER: LAS100S-T3-Switch-3

Iso-Footcandle Lines of Horizontal Illumination

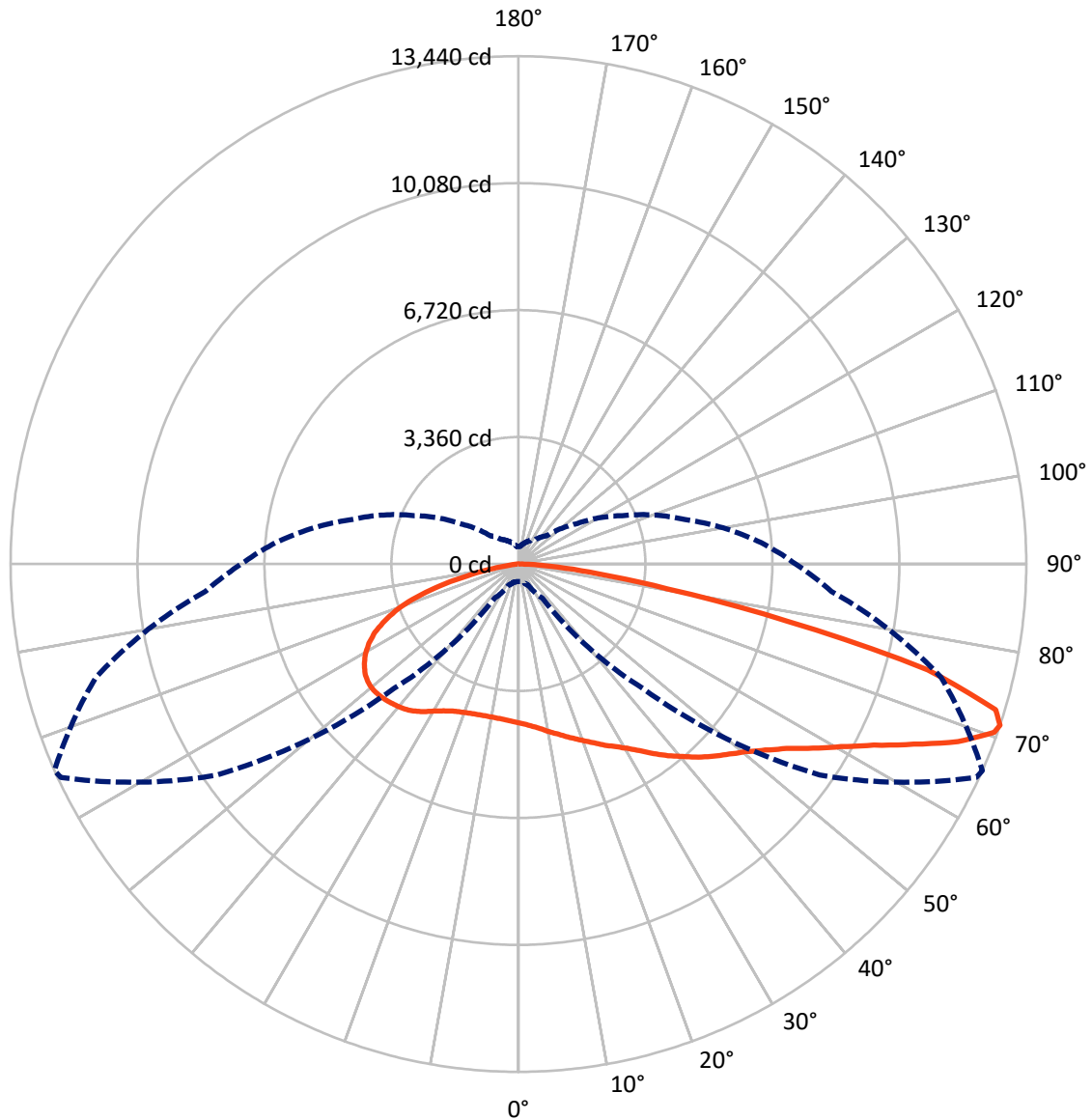
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P395117
CATALOG NUMBER: LAS100S-T3-Switch-3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P395117

CATALOG NUMBER: LAS100S-T3-Switch-3

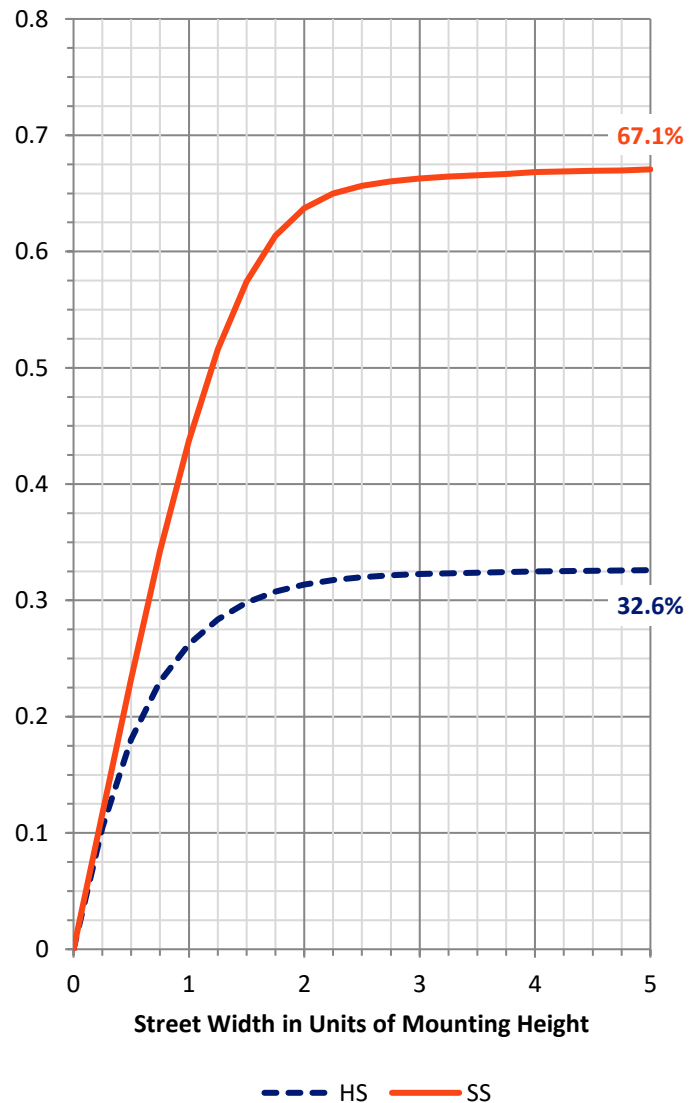
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8052.2	0.0	8052.2
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	16488.8	0.0	16488.8
	% Fixture	67.2	0.0	67.2
Total	Lumens	24541.0	0.0	24541.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.6	1.6
10°-20°	1220.7	5.0
20°-30°	2104.9	8.6
30°-40°	3161.4	12.9
40°-50°	4264.3	17.4
50°-60°	5221.5	21.3
60°-70°	4929.4	20.1
70°-80°	2852.8	11.6
80°-90°	382.3	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°	24541.0	100.0
0°-180°	24541.0	100.0



REPORT NUMBER: P395117

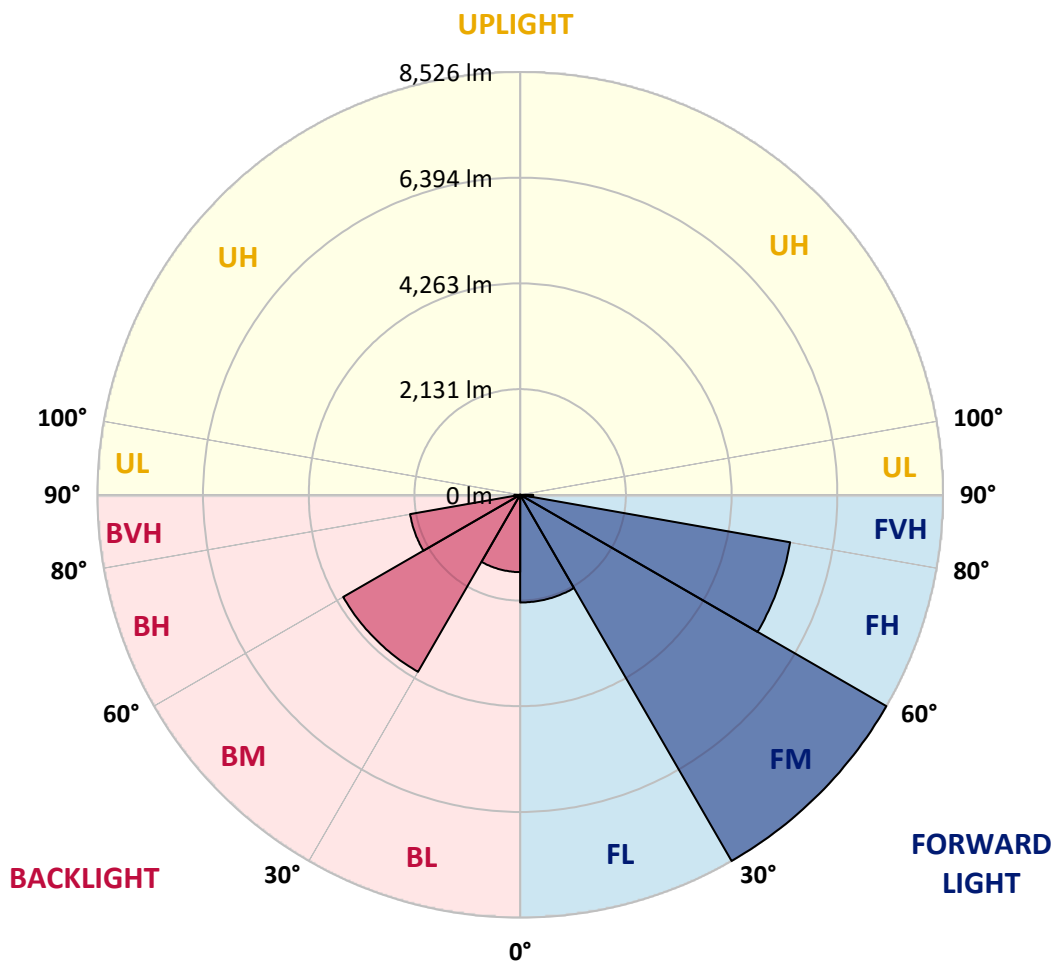
CATALOG NUMBER: LAS100S-T3-Switch-3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2171.4	8.8			
FM	(30°-60°)	8525.6	34.7			
FH	(60°-80°)	5527.9	22.5			G3/7500
FVH	(80°-90°)	264.0	1.1			G3/500
BL	(0°-30°)	1557.7	6.3	B3/2500		
BM	(30°-60°)	4121.7	16.8	B3/5000		
BH	(60°-80°)	2254.3	9.2	B3/2500		G3/2500
BVH	(80°-90°)	118.3	0.5			G2/225
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: P395117

CATALOG NUMBER: LAS100S-T3-Switch-3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1
2.5°	4316.0	4313.9	4315.3	4310.4	4297.7	4292.7	4280.0	4258.9	4258.2	4239.8	4227.8
5°	4428.1	4426.0	4419.7	4411.9	4398.5	4392.2	4368.2	4328.7	4325.2	4299.1	4267.3
7.5°	4531.8	4531.1	4529.7	4514.9	4500.8	4484.5	4461.3	4420.4	4409.1	4371.7	4323.0
10°	4655.2	4648.9	4643.9	4631.2	4617.1	4596.7	4562.1	4515.6	4514.9	4464.1	4395.0
12.5°	4776.5	4779.3	4769.5	4757.5	4730.0	4711.6	4672.8	4629.8	4614.3	4563.5	4481.7
15°	4911.2	4912.6	4895.7	4885.8	4868.2	4841.4	4788.5	4739.1	4737.0	4672.1	4580.5
17.5°	5072.7	5079.8	5059.3	5045.9	5016.3	4976.1	4920.4	4866.8	4860.4	4794.8	4696.1
20°	5251.8	5243.4	5239.1	5212.3	5184.8	5131.9	5071.3	5009.9	4997.2	4926.0	4823.8
22.5°	5439.4	5437.3	5436.6	5399.9	5369.6	5294.9	5217.3	5155.2	5141.1	5069.9	4958.5
25°	5679.9	5687.0	5652.4	5623.5	5574.1	5477.5	5391.5	5302.6	5311.1	5231.4	5124.9
27.5°	5982.4	5982.4	5966.2	5920.4	5840.7	5705.3	5590.3	5475.4	5471.2	5406.3	5295.6
30°	6376.7	6373.8	6361.9	6318.1	6179.9	6022.6	5815.3	5679.2	5657.3	5571.3	5515.6
32.5°	6584.0	6594.6	6615.0	6605.9	6542.4	6390.1	6119.3	5893.6	5884.4	5787.8	5729.3
35°	6716.6	6727.2	6754.7	6782.2	6746.2	6648.9	6409.1	6187.0	6160.9	6017.7	5966.2
37.5°	6883.0	6885.8	6902.1	6940.1	6937.3	6863.3	6679.9	6462.0	6437.3	6273.0	6231.4
40°	7083.3	7084.0	7096.7	7124.2	7123.5	7055.8	6941.6	6736.3	6693.3	6557.2	6494.4
42.5°	7315.3	7296.3	7313.9	7338.6	7338.6	7287.1	7203.2	7003.6	6988.1	6827.3	6741.3
45°	7528.3	7520.5	7531.8	7545.2	7549.5	7524.1	7450.0	7276.5	7252.6	7082.6	6962.7
47.5°	7744.8	7737.1	7725.1	7771.6	7791.4	7822.4	7746.9	7543.1	7517.0	7290.6	7148.9
50°	7907.0	7902.1	7902.8	7952.1	8034.0	8116.5	8098.8	7852.7	7801.9	7505.7	7315.3
52.5°	7900.7	7894.3	7911.2	8029.7	8220.1	8426.8	8486.7	8232.1	8180.6	7773.7	7470.5
55°	7541.0	7559.3	7646.8	7937.3	8310.4	8763.2	8964.9	8708.2	8612.9	8089.0	7660.9
57.5°	6916.9	6881.6	7080.5	7509.3	8177.8	8988.8	9448.6	9251.2	9196.2	8458.5	7842.1
60°	5821.0	5815.3	6171.4	6749.7	7753.3	9063.6	9961.3	9905.6	9808.3	8895.7	8005.7
62.5°	4319.5	4340.0	4611.5	5532.5	6968.4	8835.1	10474.0	10657.4	10556.6	9412.0	8163.0
65°	2550.8	2557.2	2850.5	3722.2	5643.9	8216.6	10825.2	11591.1	11495.9	10075.6	8317.5
67.5°	1069.8	1133.3	1327.9	1908.3	3861.1	7076.3	10830.2	12533.3	12544.6	10835.8	8450.7
70°	524.7	532.4	612.1	779.3	1608.6	5513.5	10178.6	13291.4	13352.8	11492.4	8425.4
71°	465.5	466.2	500.0	618.5	1105.1	4662.3	9730.7	13364.1	13439.5	11577.0	8311.8
72.5°	413.3	412.6	433.0	482.4	715.8	3266.6	8629.2	13099.6	13205.4	11325.3	7973.3
75°	332.2	334.3	349.1	375.9	497.9	1483.8	6279.3	11047.4	11192.0	9589.7	6644.7
77.5°	253.2	258.8	277.9	298.3	372.4	897.8	3978.2	7527.6	7287.1	6095.3	4758.9
80°	189.7	191.8	204.5	227.1	273.6	562.8	2234.2	3897.8	4000.1	3215.8	2577.6
82.5°	131.9	136.1	146.0	157.3	177.0	356.1	1354.7	2110.0	2094.5	1378.7	1006.4
85°	78.3	81.8	85.3	93.8	100.8	181.9	749.7	1062.1	1035.3	356.1	211.6
87.5°	28.9	30.3	33.9	31.7	36.7	59.9	257.4	265.9	259.5	61.4	45.1
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: P395117

CATALOG NUMBER: LAS100S-T3-Switch-3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1	4208.1
2.5°	4213.7	4208.8	4189.8	4167.9	4148.9	4134.8	4117.8	4105.1	4100.9	4088.2	4091.0
5°	4241.2	4225.7	4179.2	4134.8	4088.9	4050.1	4015.6	3988.8	3969.0	3954.2	3965.5
7.5°	4285.7	4256.8	4188.3	4112.2	4038.1	3975.4	3920.4	3868.2	3832.2	3820.2	3813.2
10°	4347.7	4308.2	4206.7	4098.8	3995.1	3901.3	3809.6	3746.2	3685.5	3660.8	3646.7
12.5°	4426.0	4368.9	4234.9	4097.4	3957.7	3823.0	3686.2	3590.3	3508.5	3481.7	3464.8
15°	4519.8	4447.9	4282.1	4105.1	3917.5	3720.8	3552.9	3422.5	3323.0	3285.7	3275.8
17.5°	4620.7	4537.4	4339.3	4119.2	3876.6	3624.2	3418.9	3261.0	3151.7	3108.6	3107.2
20°	4744.8	4651.0	4411.9	4147.4	3835.7	3529.0	3285.7	3113.6	3001.4	2946.4	2936.6
22.5°	4887.9	4780.7	4510.6	4179.9	3801.9	3432.3	3159.4	2962.7	2847.7	2798.3	2787.1
25°	5038.9	4922.5	4629.1	4233.5	3772.3	3351.9	3040.9	2837.8	2719.4	2664.4	2653.1
27.5°	5227.1	5098.8	4768.8	4315.3	3757.5	3276.5	2939.4	2720.8	2600.9	2536.7	2532.5
30°	5438.7	5313.2	4954.9	4411.2	3763.1	3215.8	2851.9	2617.8	2488.0	2426.0	2410.5
32.5°	5661.6	5542.4	5152.4	4543.1	3777.9	3160.1	2763.1	2513.4	2378.0	2311.7	2301.9
35°	5908.4	5795.6	5361.1	4662.3	3785.0	3089.6	2658.7	2409.1	2270.8	2213.0	2201.7
37.5°	6173.6	6043.8	5574.8	4756.8	3766.6	3000.7	2556.5	2315.3	2182.7	2131.2	2124.9
40°	6429.6	6287.1	5746.9	4822.3	3735.6	2913.3	2466.2	2233.5	2116.4	2072.7	2064.9
42.5°	6654.5	6495.1	5878.8	4874.5	3701.7	2835.0	2391.4	2173.5	2069.8	2031.8	2024.7
45°	6862.6	6676.4	6009.2	4921.1	3669.3	2764.5	2335.7	2129.1	2033.2	1999.3	1995.1
47.5°	7029.0	6840.7	6114.3	4952.8	3623.5	2708.8	2285.6	2090.3	2005.0	1978.9	1976.8
50°	7194.7	6984.6	6203.9	4957.8	3572.7	2653.8	2241.9	2055.0	1979.6	1961.9	1961.9
52.5°	7340.7	7111.5	6266.7	4923.9	3501.5	2591.7	2188.3	2015.5	1950.0	1945.0	1946.4
55°	7483.9	7229.3	6282.9	4844.2	3418.9	2529.7	2129.1	1961.9	1904.1	1907.6	1910.5
57.5°	7603.1	7282.2	6237.7	4708.1	3319.5	2442.2	2048.7	1877.3	1810.3	1812.4	1818.8
60°	7670.8	7273.7	6125.6	4539.6	3177.1	2326.5	1929.5	1741.9	1646.0	1628.4	1637.5
62.5°	7706.7	7218.0	5935.9	4317.4	3009.9	2173.5	1739.1	1521.2	1404.8	1414.7	1407.6
65°	7704.6	7118.6	5683.4	4047.3	2782.8	1922.5	1486.6	1258.8	1180.6	1155.2	1153.0
67.5°	7655.2	6931.0	5322.4	3672.8	2476.8	1600.9	1184.8	1004.2	924.6	921.7	912.6
70°	7466.2	6629.8	4835.0	3249.0	2036.7	1196.8	904.8	756.7	685.5	598.0	594.5
71°	7335.1	6450.7	4550.8	3032.5	1838.5	1057.8	796.9	677.0	566.3	461.2	461.2
72.5°	6948.6	6117.9	4158.7	2693.3	1498.6	865.3	658.0	543.7	385.8	361.8	363.2
75°	6033.2	5230.7	3402.7	2022.6	1013.4	593.8	459.1	356.1	264.5	287.7	295.5
77.5°	4536.7	3993.0	2528.9	1272.9	576.9	378.7	317.4	234.1	210.2	237.0	236.3
80°	2600.2	2479.6	1559.3	680.5	251.8	238.4	224.3	170.7	160.8	179.8	179.8
82.5°	1279.3	1374.5	851.9	253.9	115.7	138.9	143.9	119.2	112.1	121.3	124.1
85°	419.6	605.8	313.8	91.0	66.3	69.1	63.5	61.4	60.6	62.8	62.1
87.5°	60.6	109.3	45.1	35.3	27.5	24.0	19.7	18.3	15.5	13.4	12.7
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)