

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: P395129

Luminaire Tested: **LAS100S-T4-Switch-5**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LAS100S-T4-Switch-5
Description: AREA SITE LARGE HOUSING, TYPE IV, 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: 20055 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G3

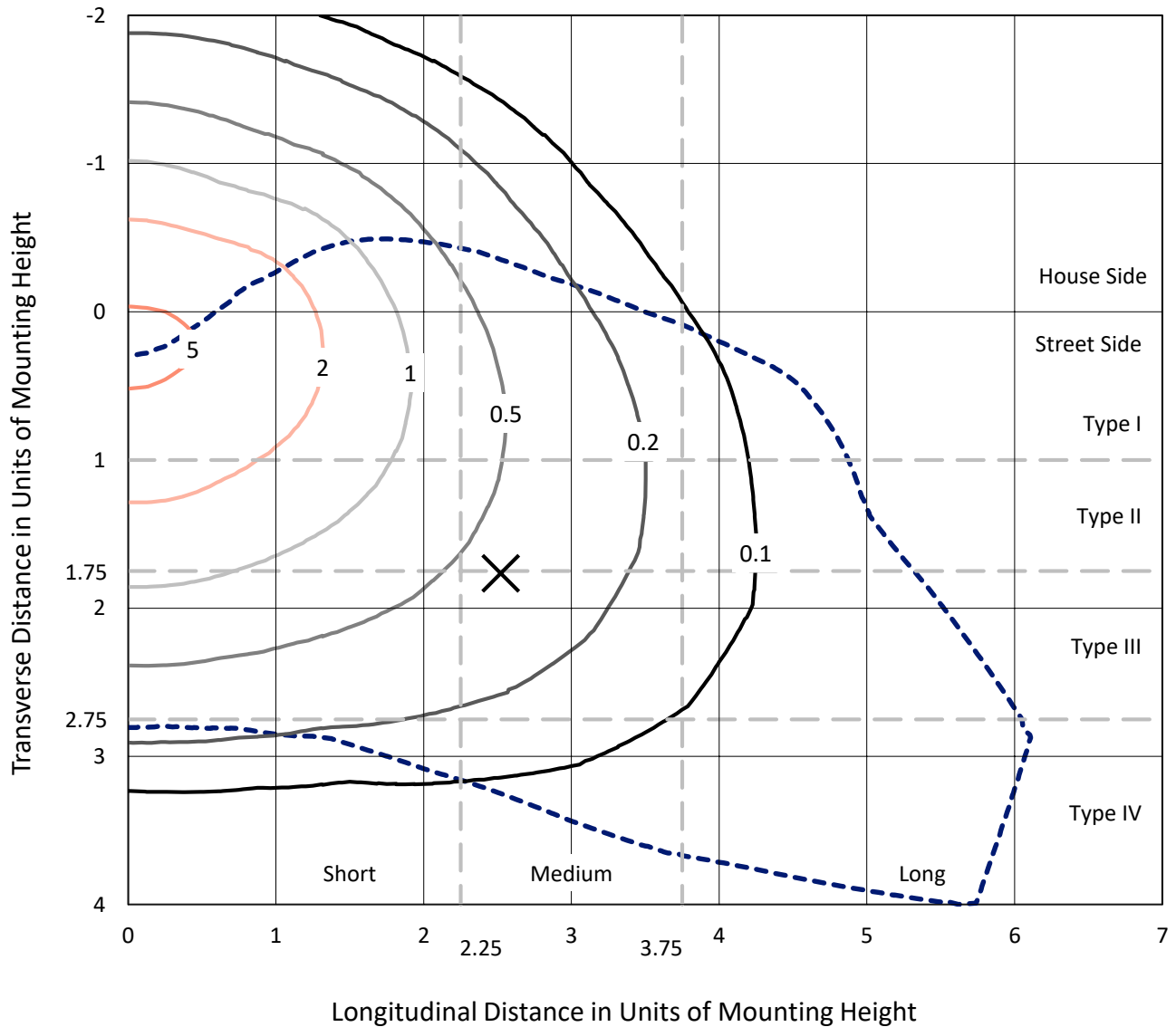
Input Watts (W): 129.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395129
 CATALOG NUMBER: LAS100S-T4-Switch-5

Iso-Footcandle Lines of Horizontal Illumination

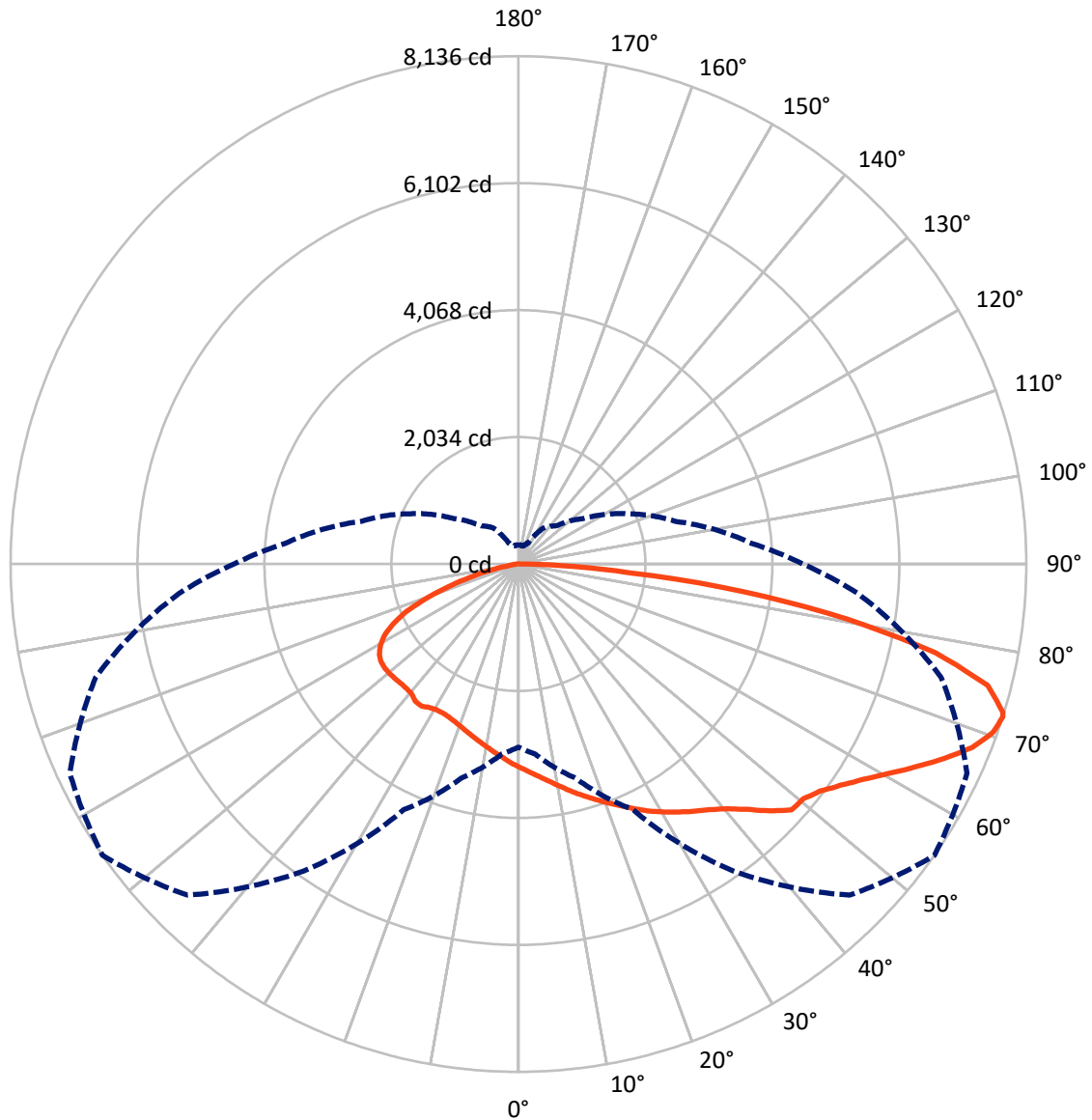
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P395129
CATALOG NUMBER: LAS100S-T4-Switch-5

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P395129

CATALOG NUMBER: LAS100S-T4-Switch-5

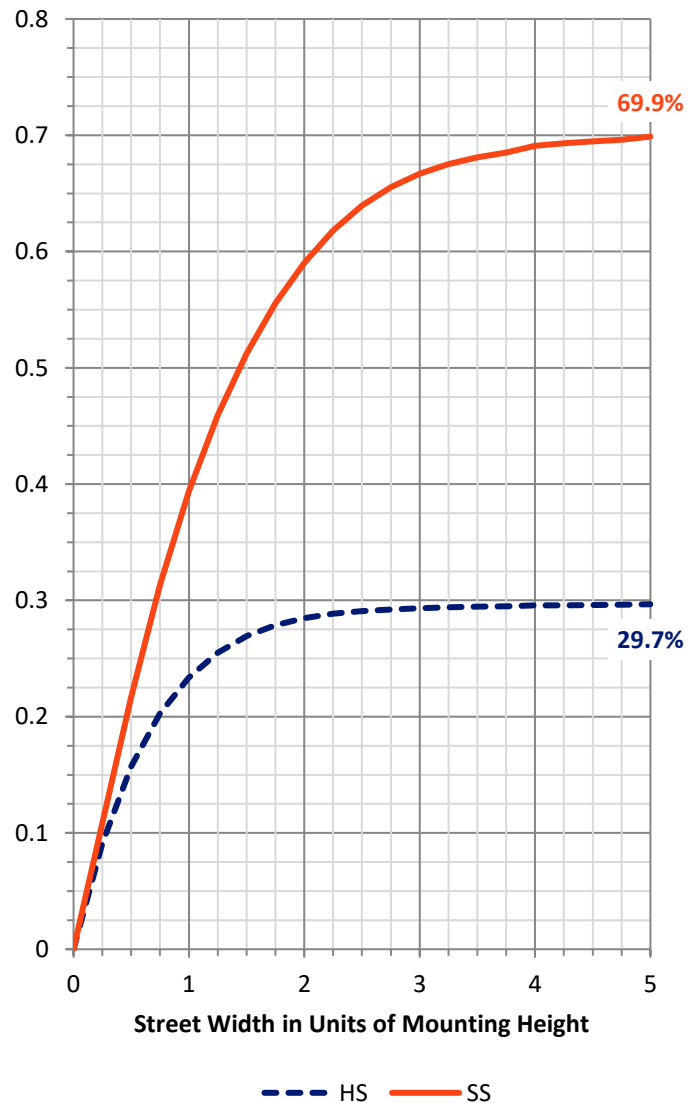
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5987.0	0.0	5987.0
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	14068.0	0.0	14068.0
	% Fixture	70.1	0.0	70.1
Total	Lumens	20055.0	0.0	20055.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.6
10°-20°	948.4	4.7
20°-30°	1621.6	8.1
30°-40°	2350.3	11.7
40°-50°	3153.0	15.7
50°-60°	3864.7	19.3
60°-70°	4320.8	21.5
70°-80°	2961.0	14.8
80°-90°	523.2	2.6
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°	20055.0	100.0
0°-180°	20055.0	100.0



REPORT NUMBER: P395129

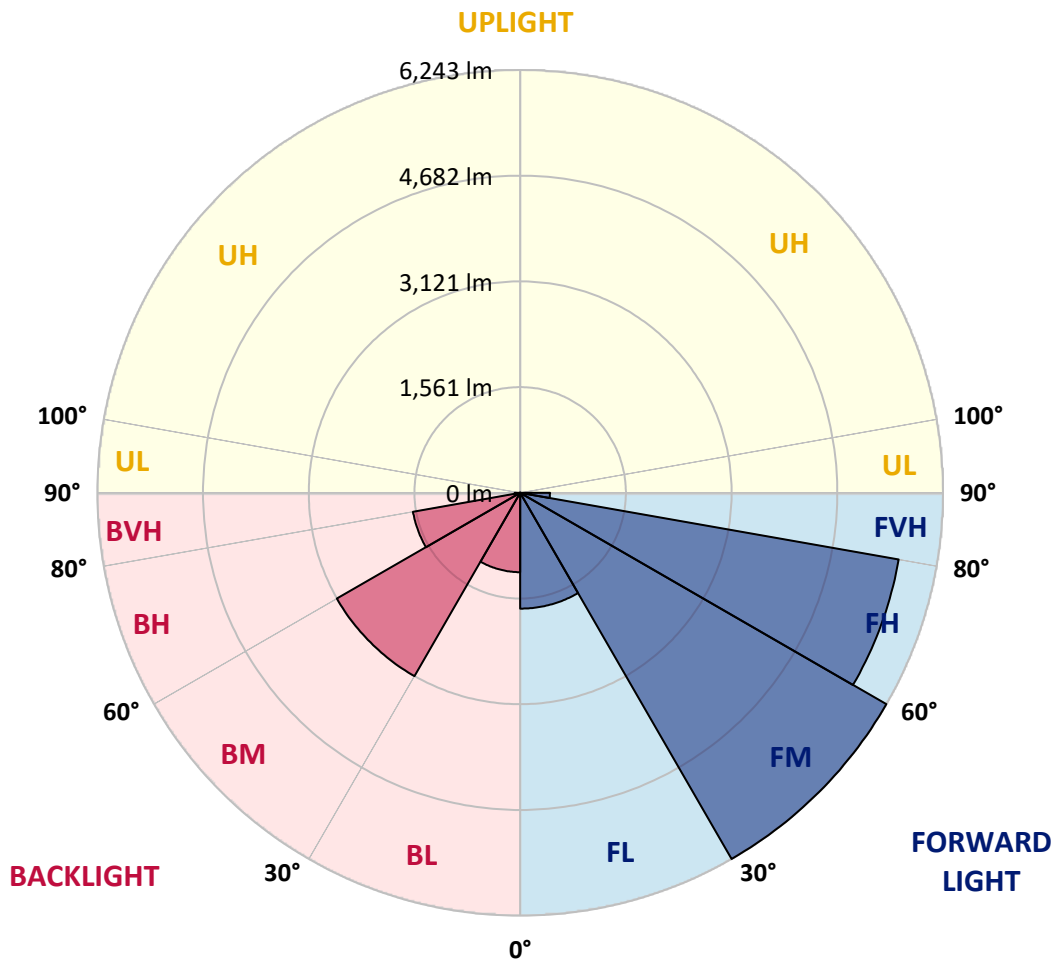
CATALOG NUMBER: LAS100S-T4-Switch-5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1710.0	8.5			
FM	(30°-60°)	6242.8	31.1			
FH	(60°-80°)	5674.5	28.3			G3/7500
FVH	(80°-90°)	440.7	2.2			G3/500
BL	(0°-30°)	1172.1	5.8	B3/2500		
BM	(30°-60°)	3125.2	15.6	B3/5000		
BH	(60°-80°)	1607.3	8.0	B3/2500		G3/2500
BVH	(80°-90°)	82.5	0.4			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 IV Medium





REPORT NUMBER: P395129

CATALOG NUMBER: LAS100S-T4-Switch-5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5
2.5°	3382.8	3369.9	3370.5	3365.8	3352.8	3341.1	3332.9	3311.2	3294.7	3276.5	3264.2
5°	3517.2	3504.3	3494.3	3483.8	3468.5	3445.6	3416.8	3381.0	3342.3	3302.4	3278.3
7.5°	3648.1	3636.4	3624.7	3608.8	3587.1	3553.0	3510.8	3459.1	3400.4	3338.8	3304.1
10°	3771.4	3765.6	3755.6	3733.9	3706.9	3668.7	3618.2	3553.0	3473.8	3391.0	3341.1
12.5°	3886.5	3890.0	3881.8	3863.6	3833.7	3786.7	3730.9	3652.3	3560.1	3447.4	3388.1
15°	4008.6	3998.0	3994.5	3980.4	3958.1	3911.2	3847.2	3755.6	3654.6	3523.7	3447.4
17.5°	4120.7	4108.4	4104.9	4090.8	4059.7	4023.9	3962.8	3866.5	3753.2	3601.8	3520.7
20°	4217.0	4214.7	4206.5	4200.0	4172.4	4133.1	4082.0	3992.8	3867.1	3705.7	3603.5
22.5°	4323.3	4310.4	4313.9	4295.7	4278.1	4255.2	4211.2	4126.6	3989.2	3809.0	3698.6
25°	4409.6	4402.6	4400.2	4392.0	4386.1	4379.1	4345.6	4269.9	4119.0	3930.5	3804.3
27.5°	4474.8	4470.1	4485.9	4484.7	4506.5	4507.1	4484.2	4403.1	4261.7	4050.3	3915.3
30°	4540.5	4539.3	4567.5	4585.7	4609.2	4629.8	4610.4	4541.7	4392.6	4183.0	4040.9
32.5°	4619.2	4615.7	4648.0	4677.3	4712.5	4747.8	4736.6	4674.4	4537.0	4318.6	4166.5
35°	4698.4	4700.8	4736.0	4767.1	4818.2	4864.0	4863.4	4818.2	4687.9	4471.2	4308.0
37.5°	4790.6	4795.3	4819.4	4862.8	4924.5	4971.4	4992.0	4957.9	4842.9	4640.3	4480.6
40°	5013.7	5001.4	5057.7	5076.5	5107.1	5127.0	5152.3	5127.6	5032.5	4829.4	4680.8
42.5°	5240.3	5265.0	5332.5	5333.7	5361.8	5371.2	5372.4	5334.8	5238.0	5047.8	4868.1
45°	5218.6	5244.4	5346.0	5412.3	5550.9	5634.3	5640.1	5587.3	5482.2	5197.5	4943.3
47.5°	5220.9	5250.9	5337.2	5364.2	5539.7	5759.3	5890.2	5869.1	5700.0	5297.9	5043.1
50°	5292.6	5328.4	5410.6	5377.1	5498.6	5714.1	5913.1	5971.2	5770.5	5417.6	5170.5
52.5°	5410.6	5441.1	5531.5	5479.3	5564.4	5789.8	6047.0	6124.5	5944.2	5573.2	5300.8
55°	5538.0	5576.7	5657.2	5636.0	5722.3	5975.9	6259.5	6349.3	6159.1	5725.8	5412.9
57.5°	5690.6	5708.8	5815.7	5829.8	5936.0	6210.2	6510.2	6590.0	6365.8	5851.5	5498.6
60°	5780.4	5799.2	5936.0	6018.8	6206.7	6517.2	6814.3	6877.1	6580.0	5950.1	5552.1
62.5°	5903.7	5920.2	6020.0	6176.1	6502.0	6861.3	7151.3	7173.0	6791.4	6027.0	5550.3
65°	5947.2	5947.8	6055.8	6307.6	6740.9	7219.4	7505.3	7459.5	6985.7	6029.4	5461.7
67.5°	5374.2	5439.9	5636.6	6209.0	6896.5	7530.5	7840.5	7723.1	7106.7	5937.8	5257.3
70°	4324.5	4303.3	4599.8	5452.3	6679.3	7660.9	8070.7	7888.7	7106.1	5725.3	4907.4
72°	2934.3	3055.8	3553.0	4342.7	6002.9	7501.2	8136.4	7929.8	7012.1	5464.0	4554.0
72.5°	2644.8	2737.6	3133.3	4042.7	5831.5	7415.5	8115.3	7922.1	6972.2	5364.8	4442.5
75°	869.5	984.0	1401.4	2325.4	4333.3	6513.7	7763.6	7753.0	6568.3	4812.9	3825.4
77.5°	342.9	348.7	389.2	890.6	2591.4	5145.8	6824.9	7048.0	5420.6	3967.5	3020.6
80°	248.9	243.1	251.3	323.5	1027.4	3394.5	5336.0	5532.1	3226.0	2668.3	2112.3
82.5°	171.4	169.1	172.6	205.5	426.8	1863.4	3635.8	3196.7	1155.4	1192.4	1204.1
85°	95.7	97.5	96.3	116.2	226.0	819.0	1792.4	1272.2	179.1	214.9	499.6
87.5°	35.8	36.4	37.6	42.3	78.7	227.8	647.6	207.2	30.5	30.5	79.3
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: P395129

CATALOG NUMBER: LAS100S-T4-Switch-5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5
2.5°	3256.0	3233.7	3208.4	3192.0	3169.7	3158.5	3143.8	3143.8	3137.4	3132.1
5°	3257.1	3207.2	3157.3	3113.3	3078.7	3045.2	3017.6	2997.7	2994.7	2988.3
7.5°	3267.1	3192.6	3114.5	3046.4	2987.1	2933.7	2889.6	2865.0	2849.1	2838.0
10°	3288.9	3186.7	3079.8	2978.9	2892.6	2823.9	2767.5	2738.2	2720.6	2716.4
12.5°	3323.5	3186.1	3047.0	2919.6	2809.2	2727.0	2668.3	2629.6	2616.1	2606.1
15°	3364.6	3194.3	3021.7	2863.2	2732.9	2636.0	2575.5	2535.6	2515.7	2511.5
17.5°	3420.9	3214.9	3001.8	2810.4	2660.7	2553.2	2489.2	2448.7	2430.5	2427.6
20°	3490.8	3243.1	2988.8	2763.4	2597.9	2484.0	2408.8	2366.0	2350.7	2350.7
22.5°	3571.2	3282.4	2983.6	2722.3	2539.1	2417.6	2339.5	2300.2	2290.8	2287.3
25°	3658.1	3337.6	2992.4	2693.0	2485.7	2358.9	2281.4	2240.3	2223.9	2221.5
27.5°	3759.1	3403.3	3015.3	2676.5	2446.4	2303.1	2227.4	2178.1	2163.4	2156.4
30°	3870.7	3482.6	3055.8	2680.0	2425.2	2262.0	2165.8	2122.3	2100.6	2092.4
32.5°	3995.7	3581.2	3122.1	2708.8	2422.9	2230.3	2116.4	2057.1	2033.7	2031.9
35°	4133.7	3705.1	3221.9	2758.1	2421.7	2190.4	2058.9	1997.3	1983.2	1983.8
37.5°	4312.7	3866.5	3312.3	2748.7	2345.4	2112.3	1993.7	1953.2	1940.9	1939.1
40°	4496.5	3961.6	3287.1	2691.2	2282.0	2047.8	1945.0	1913.3	1907.4	1903.9
42.5°	4602.2	3966.3	3300.6	2680.6	2245.0	2010.8	1908.6	1878.7	1869.3	1866.3
45°	4657.9	4037.4	3361.6	2684.7	2220.9	1981.4	1873.4	1841.7	1825.2	1821.7
47.5°	4767.7	4129.0	3425.1	2696.5	2206.3	1942.1	1835.2	1799.4	1782.4	1783.0
50°	4883.4	4214.1	3475.5	2708.8	2189.2	1907.4	1794.7	1753.0	1740.7	1736.0
52.5°	4985.5	4280.4	3499.0	2712.3	2168.1	1871.6	1746.0	1699.0	1683.8	1680.2
55°	5062.4	4312.1	3487.3	2702.9	2138.2	1824.7	1689.0	1632.7	1613.9	1610.4
57.5°	5108.2	4296.3	3425.1	2656.6	2089.4	1766.5	1615.1	1542.9	1518.2	1514.7
60°	5101.8	4206.5	3294.7	2563.8	2011.4	1672.6	1492.4	1409.6	1377.3	1372.0
62.5°	5026.6	4038.0	3119.8	2431.1	1886.9	1515.9	1333.3	1232.9	1182.4	1166.5
65°	4866.3	3789.0	2900.2	2213.9	1669.7	1308.0	1123.1	1003.9	868.3	836.6
67.5°	4592.8	3447.4	2599.6	1957.3	1402.5	1095.5	922.3	633.5	495.5	464.4
70°	4157.7	2983.0	2229.2	1582.8	1087.3	870.6	624.7	351.1	342.3	343.4
72°	3755.6	2624.3	1905.1	1269.9	867.1	707.4	374.6	297.1	307.0	302.9
72.5°	3637.0	2523.3	1836.4	1184.7	813.1	669.9	333.5	287.7	293.5	298.2
75°	3063.4	1970.8	1321.5	811.9	602.9	447.9	247.7	244.8	252.4	254.2
77.5°	2320.7	1404.9	848.3	514.9	401.6	255.4	198.4	198.4	206.1	207.2
80°	1525.8	866.5	353.4	203.7	252.4	168.5	146.8	150.3	159.1	162.6
82.5°	965.2	467.3	105.7	106.8	128.6	110.4	99.2	103.3	111.0	111.5
85°	470.3	95.7	56.9	58.1	59.3	59.9	51.7	55.2	56.9	55.2
87.5°	115.7	24.1	21.7	23.5	18.8	15.9	15.9	13.5	9.4	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)