

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: P395131

Luminaire Tested: **LAS100S-T4-Switch-7**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395131
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-7
Description: AREA SITE LARGE HOUSING, TYPE IV, WATTAGE SWITCH ON POSTION 7
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17768 lumens
Efficiency: N/A
Efficacy: 157.4 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

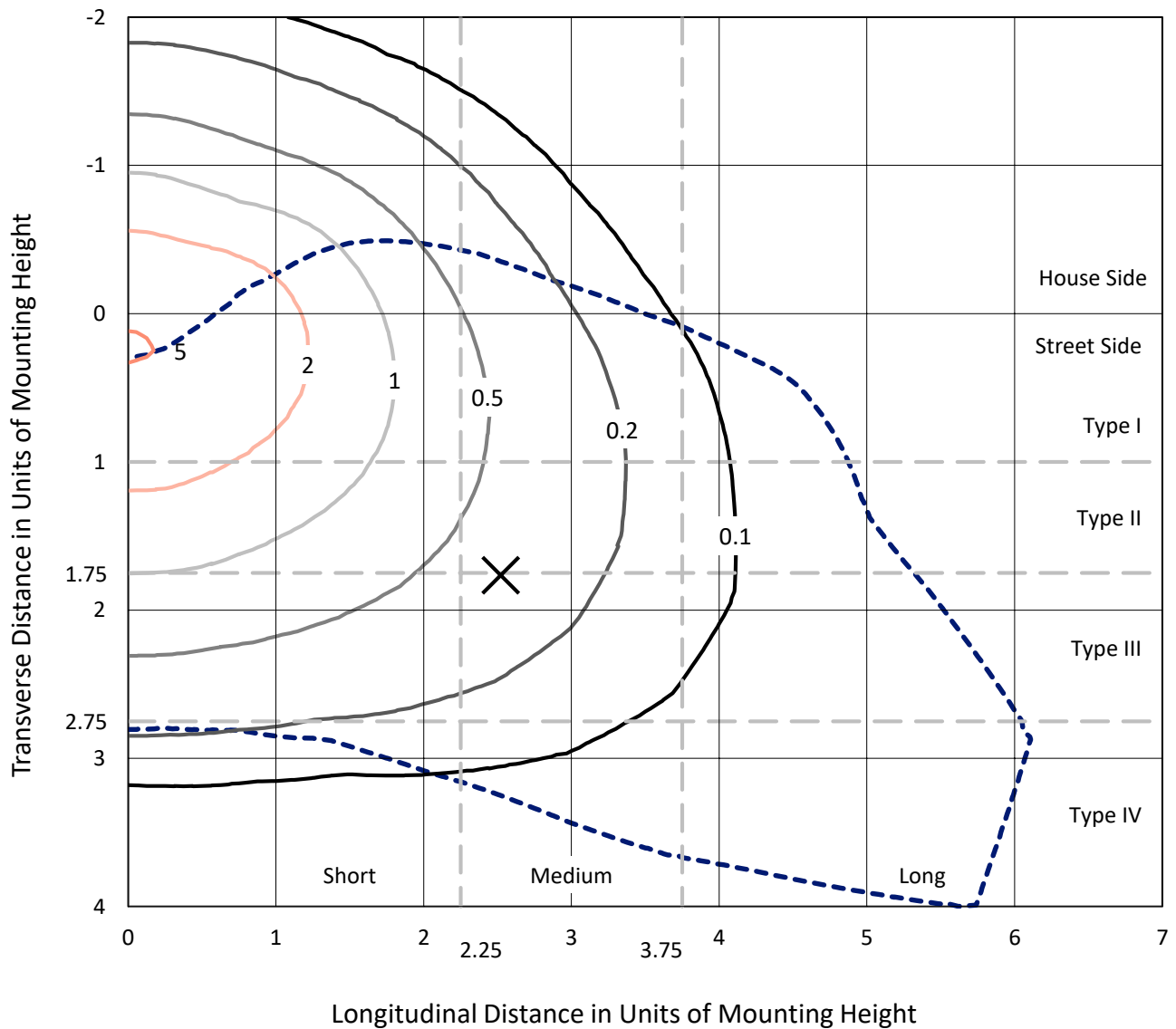
Input Watts (W): 112.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

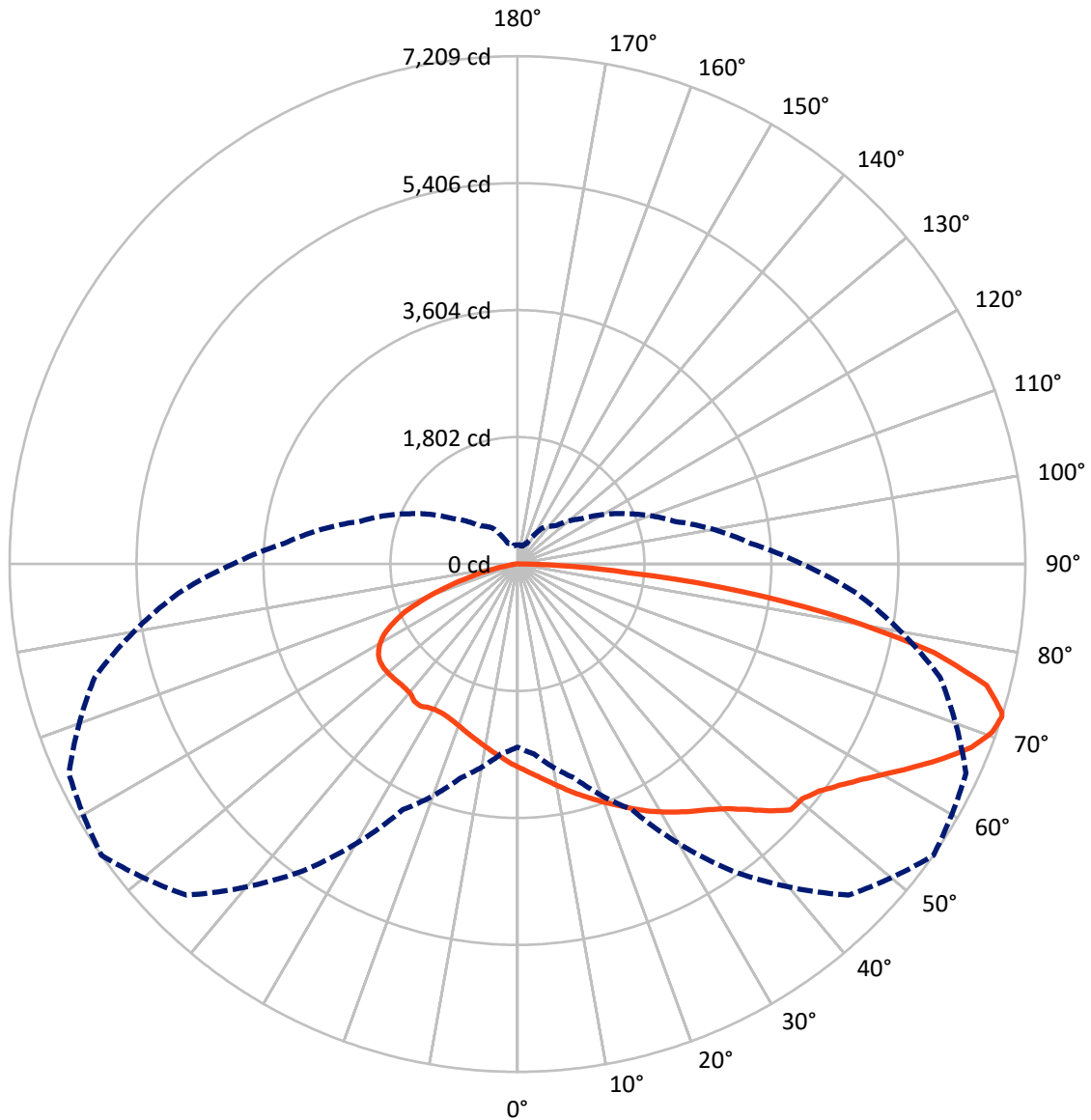
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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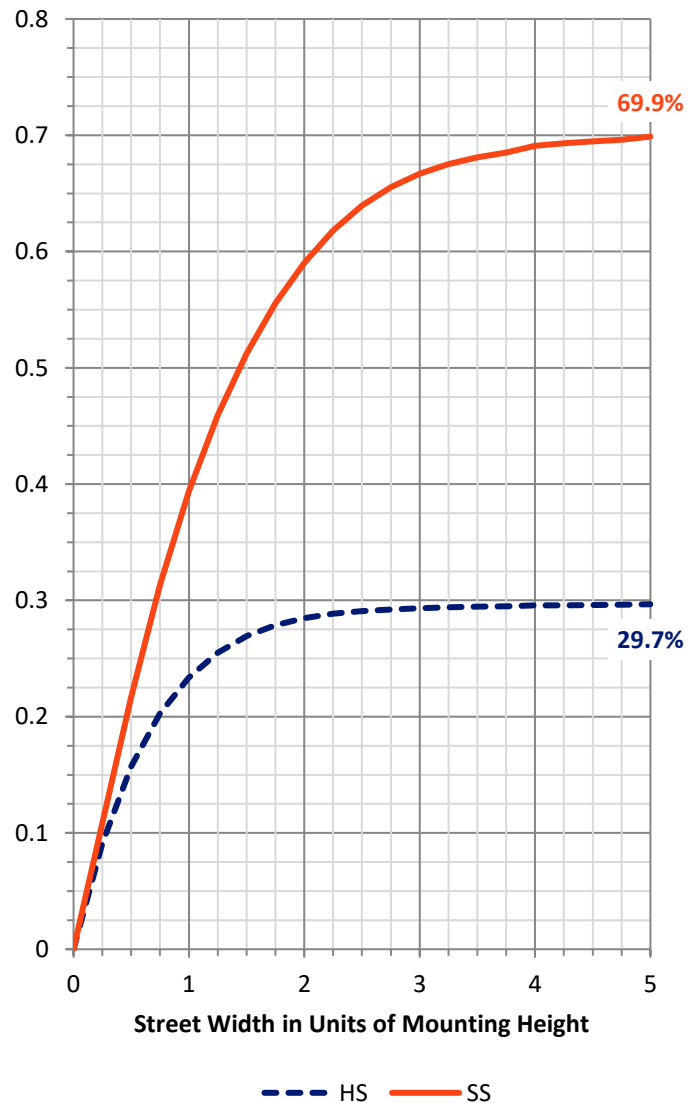
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5304.3	0.0	5304.3
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	12463.7	0.0	12463.7
	% Fixture	70.1	0.0	70.1
Total	Lumens	17768.0	0.0	17768.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.6
10°-20°	840.2	4.7
20°-30°	1436.7	8.1
30°-40°	2082.3	11.7
40°-50°	2793.5	15.7
50°-60°	3424.0	19.3
60°-70°	3828.1	21.5
70°-80°	2623.3	14.8
80°-90°	463.5	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°	17768.0	100.0
0°-180°	17768.0	100.0



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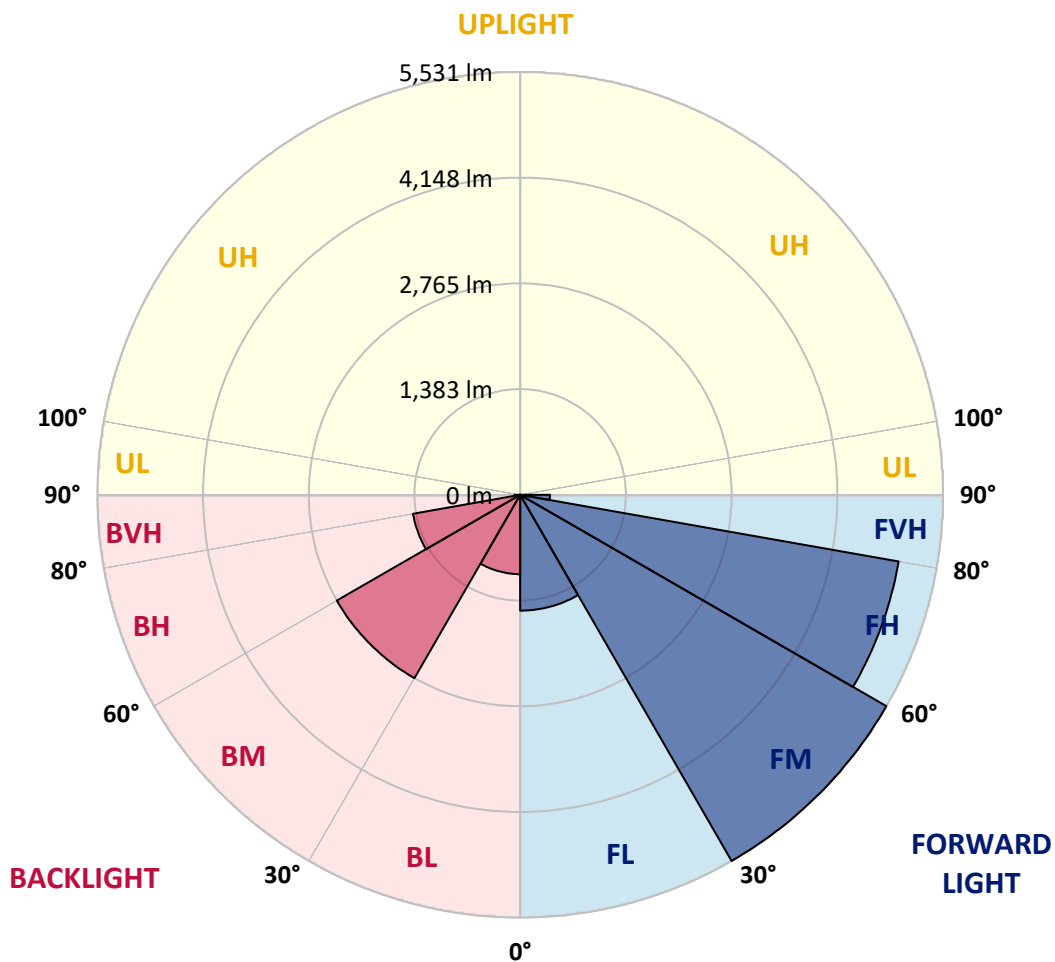
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1515.0	8.5			
FM	(30°-60°)	5530.9	31.1			
FH	(60°-80°)	5027.4	28.3			G3/7500
FVH	(80°-90°)	390.4	2.2			G3/500
BL	(0°-30°)	1038.4	5.8	B3/2500		
BM	(30°-60°)	2768.8	15.6	B3/5000		
BH	(60°-80°)	1424.0	8.0	B3/2500		G3/2500
BVH	(80°-90°)	73.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8
2.5°	2997.0	2985.6	2986.1	2981.9	2970.5	2960.1	2952.8	2933.6	2919.0	2902.9	2892.0
5°	3116.1	3104.7	3095.8	3086.5	3073.0	3052.7	3027.2	2995.5	2961.1	2925.8	2904.4
7.5°	3232.1	3221.7	3211.3	3197.3	3178.0	3147.9	3110.4	3064.6	3012.6	2958.0	2927.3
10°	3341.4	3336.2	3327.3	3308.1	3284.1	3250.3	3205.6	3147.9	3077.6	3004.3	2960.1
12.5°	3443.3	3446.4	3439.1	3423.0	3396.5	3354.9	3305.5	3235.8	3154.1	3054.2	3001.7
15°	3551.5	3542.1	3539.0	3526.5	3506.8	3465.1	3408.5	3327.3	3237.8	3121.9	3054.2
17.5°	3650.8	3639.9	3636.8	3624.3	3596.7	3565.0	3510.9	3425.6	3325.2	3191.0	3119.3
20°	3736.1	3734.1	3726.8	3721.1	3696.6	3661.8	3616.5	3537.4	3426.1	3283.1	3192.6
22.5°	3830.3	3818.8	3822.0	3805.8	3790.2	3769.9	3730.9	3656.0	3534.3	3374.6	3276.9
25°	3906.7	3900.5	3898.4	3891.1	3885.9	3879.7	3850.0	3782.9	3649.3	3482.3	3370.5
27.5°	3964.5	3960.3	3974.4	3973.3	3992.6	3993.1	3972.8	3901.0	3775.7	3588.4	3468.8
30°	4022.7	4021.7	4046.7	4062.8	4083.6	4101.8	4084.6	4023.8	3891.7	3706.0	3580.1
32.5°	4092.4	4089.3	4117.9	4143.9	4175.1	4206.3	4196.5	4141.3	4019.6	3826.1	3691.4
35°	4162.6	4164.7	4195.9	4223.5	4268.8	4309.3	4308.8	4268.8	4153.3	3961.4	3816.8
37.5°	4244.3	4248.5	4269.8	4308.3	4362.9	4404.5	4422.7	4392.5	4290.6	4111.2	3969.7
40°	4442.0	4431.0	4481.0	4497.6	4524.7	4542.3	4564.7	4542.9	4458.6	4278.6	4147.0
42.5°	4642.7	4664.6	4724.4	4725.4	4750.4	4758.7	4759.8	4726.5	4640.7	4472.1	4313.0
45°	4623.5	4646.4	4736.4	4795.1	4917.9	4991.7	4996.9	4950.1	4857.0	4604.8	4379.5
47.5°	4625.6	4652.1	4728.6	4752.5	4908.0	5102.5	5218.5	5199.8	5050.0	4693.7	4468.0
50°	4689.0	4720.8	4793.6	4763.9	4871.6	5062.5	5238.8	5290.3	5112.4	4799.8	4580.8
52.5°	4793.6	4820.6	4900.7	4854.4	4929.8	5129.6	5357.4	5426.1	5266.4	4937.7	4696.3
55°	4906.4	4940.8	5012.0	4993.3	5069.8	5294.5	5545.7	5625.3	5456.7	5072.9	4795.7
57.5°	5041.7	5057.8	5152.5	5165.0	5259.1	5502.0	5767.8	5838.5	5639.8	5184.2	4871.6
60°	5121.3	5137.9	5259.1	5332.4	5498.9	5774.0	6037.2	6092.9	5829.7	5271.6	4918.9
62.5°	5230.5	5245.1	5333.5	5471.8	5760.5	6078.8	6335.8	6355.0	6016.9	5339.7	4917.4
65°	5269.0	5269.5	5365.2	5588.3	5972.2	6396.1	6649.4	6608.8	6189.1	5341.8	4838.8
67.5°	4761.3	4819.6	4993.8	5501.0	6110.0	6671.8	6946.4	6842.4	6296.2	5260.7	4657.8
70°	3831.3	3812.6	4075.3	4830.5	5917.6	6787.3	7150.3	6989.1	6295.7	5072.4	4347.8
72°	2599.6	2707.3	3147.9	3847.4	5318.4	6645.8	7208.6	7025.5	6212.5	4840.9	4034.7
72.5°	2343.2	2425.4	2776.0	3581.7	5166.5	6569.8	7189.8	7018.7	6177.1	4753.0	3935.9
75°	770.3	871.7	1241.6	2060.3	3839.1	5770.9	6878.3	6868.9	5819.3	4264.1	3389.2
77.5°	303.8	309.0	344.9	789.0	2295.9	4559.0	6046.6	6244.2	4802.4	3515.1	2676.1
80°	220.5	215.3	222.6	286.6	910.2	3007.4	4727.5	4901.2	2858.1	2364.0	1871.4
82.5°	151.9	149.8	152.9	182.0	378.1	1650.9	3221.2	2832.1	1023.6	1056.4	1066.8
85°	84.8	86.3	85.3	103.0	200.3	725.6	1588.0	1127.1	158.6	190.4	442.6
87.5°	31.7	32.2	33.3	37.4	69.7	201.8	573.7	183.6	27.0	27.0	70.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8
2.5°	2884.7	2864.9	2842.5	2828.0	2808.2	2798.3	2785.3	2785.3	2779.6	2774.9
5°	2885.7	2841.5	2797.3	2758.3	2727.6	2697.9	2673.5	2655.8	2653.2	2647.5
7.5°	2894.6	2828.5	2759.3	2699.0	2646.5	2599.1	2560.1	2538.3	2524.2	2514.3
10°	2913.8	2823.3	2728.6	2639.2	2562.7	2501.9	2451.9	2425.9	2410.3	2406.7
12.5°	2944.5	2822.8	2699.5	2586.6	2488.9	2416.0	2364.0	2329.7	2317.7	2308.9
15°	2980.9	2830.1	2677.1	2536.7	2421.2	2335.4	2281.8	2246.5	2228.8	2225.1
17.5°	3030.8	2848.3	2659.5	2489.9	2357.3	2262.1	2205.4	2169.5	2153.4	2150.8
20°	3092.7	2873.2	2648.0	2448.3	2301.6	2200.7	2134.1	2096.1	2082.6	2082.6
22.5°	3164.0	2908.1	2643.3	2411.9	2249.6	2141.9	2072.7	2037.9	2029.6	2026.4
25°	3241.0	2957.0	2651.1	2385.9	2202.3	2089.9	2021.2	1984.8	1970.3	1968.2
27.5°	3330.4	3015.2	2671.4	2371.3	2167.4	2040.5	1973.4	1929.7	1916.7	1910.5
30°	3429.3	3085.4	2707.3	2374.4	2148.7	2004.1	1918.8	1880.3	1861.0	1853.8
32.5°	3540.0	3172.8	2766.1	2399.9	2146.6	1976.0	1875.1	1822.6	1801.8	1800.2
35°	3662.3	3282.6	2854.5	2443.6	2145.6	1940.6	1824.1	1769.5	1757.0	1757.5
37.5°	3820.9	3425.6	2934.6	2435.3	2077.9	1871.4	1766.4	1730.5	1719.6	1718.0
40°	3983.7	3509.9	2912.2	2384.3	2021.8	1814.2	1723.2	1695.1	1689.9	1686.8
42.5°	4077.3	3514.0	2924.2	2374.9	1989.0	1781.5	1691.0	1664.4	1656.1	1653.5
45°	4126.8	3577.0	2978.3	2378.6	1967.7	1755.5	1659.8	1631.7	1617.1	1614.0
47.5°	4224.0	3658.1	3034.5	2389.0	1954.7	1720.6	1625.9	1594.2	1579.1	1579.7
50°	4326.5	3733.5	3079.2	2399.9	1939.6	1689.9	1590.1	1553.1	1542.2	1538.0
52.5°	4417.0	3792.3	3100.0	2403.0	1920.9	1658.2	1546.9	1505.3	1491.7	1488.6
55°	4485.1	3820.4	3089.6	2394.7	1894.3	1616.6	1496.4	1446.5	1429.9	1426.7
57.5°	4525.7	3806.4	3034.5	2353.6	1851.2	1565.1	1430.9	1366.9	1345.1	1342.0
60°	4520.0	3726.8	2919.0	2271.4	1782.0	1481.9	1322.2	1248.8	1220.2	1215.6
62.5°	4453.4	3577.5	2764.0	2153.9	1671.7	1343.0	1181.2	1092.3	1047.6	1033.5
65°	4311.4	3357.0	2569.5	1961.4	1479.3	1158.9	995.0	889.4	769.3	741.2
67.5°	4069.0	3054.2	2303.2	1734.1	1242.6	970.6	817.1	561.2	439.0	411.4
70°	3683.6	2642.8	1975.0	1402.3	963.3	771.4	553.4	311.0	303.2	304.3
72°	3327.3	2325.0	1687.8	1125.1	768.2	626.8	331.8	263.2	272.0	268.4
72.5°	3222.2	2235.5	1627.0	1049.6	720.4	593.5	295.4	254.9	260.1	264.2
75°	2714.1	1746.1	1170.8	719.3	534.2	396.9	219.5	216.9	223.7	225.2
77.5°	2056.1	1244.7	751.6	456.2	355.8	226.3	175.8	175.8	182.6	183.6
80°	1351.8	767.7	313.1	180.5	223.7	149.3	130.0	133.2	141.0	144.1
82.5°	855.1	414.0	93.6	94.7	113.9	97.8	87.9	91.5	98.3	98.8
85°	416.6	84.8	50.5	51.5	52.5	53.1	45.8	48.9	50.5	48.9
87.5°	102.5	21.3	19.2	20.8	16.6	14.0	14.0	12.0	8.3	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)