

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: P395084

Luminaire Tested: **LAS45S-T3**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395084
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: LAS45S-T3
Description: AREA SITE SMALL HOUSING, TYPE III
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20089 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

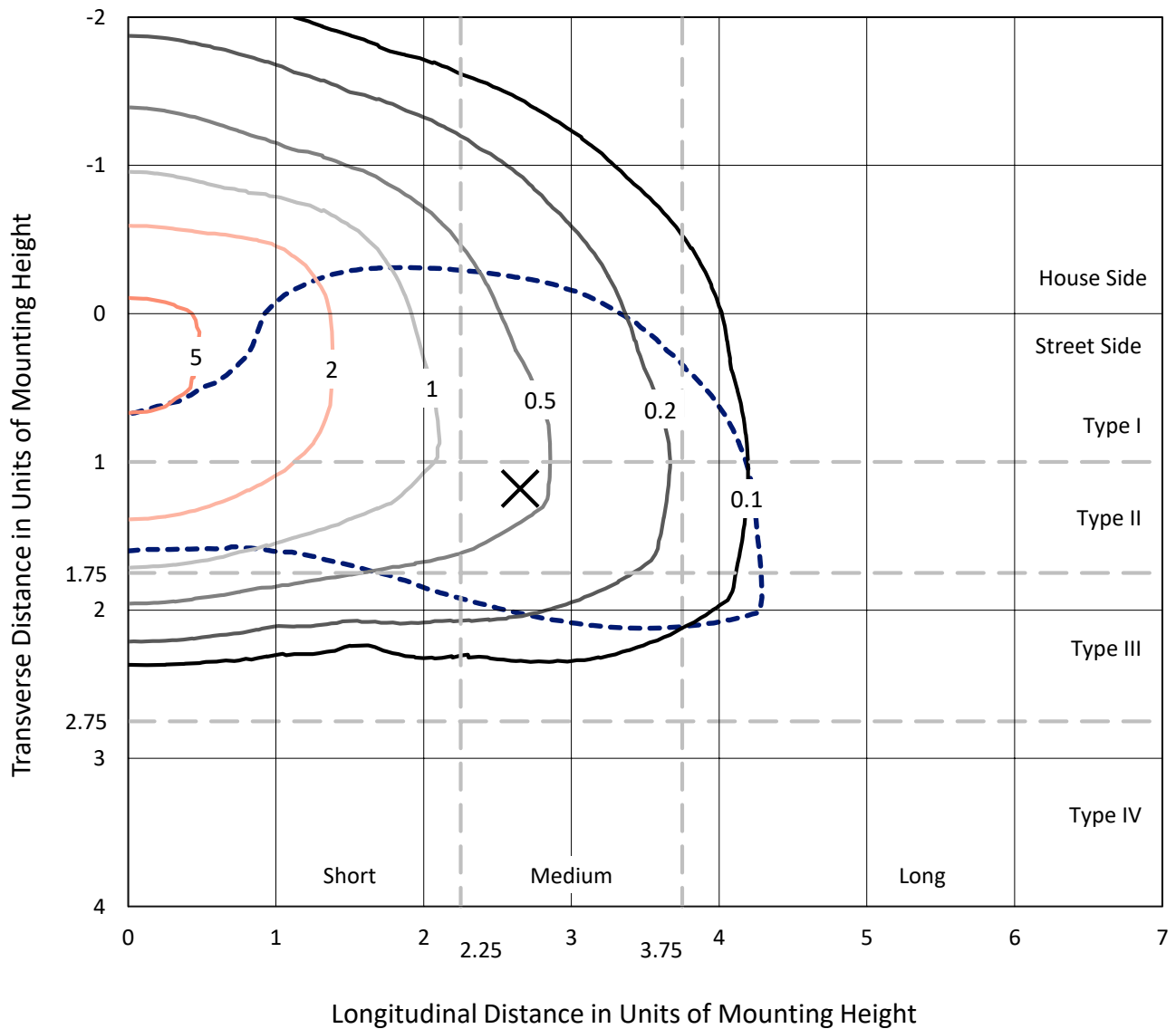
Input Watts (W): 152.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395084
 CATALOG NUMBER: LAS45S-T3

Iso-Footcandle Lines of Horizontal Illumination

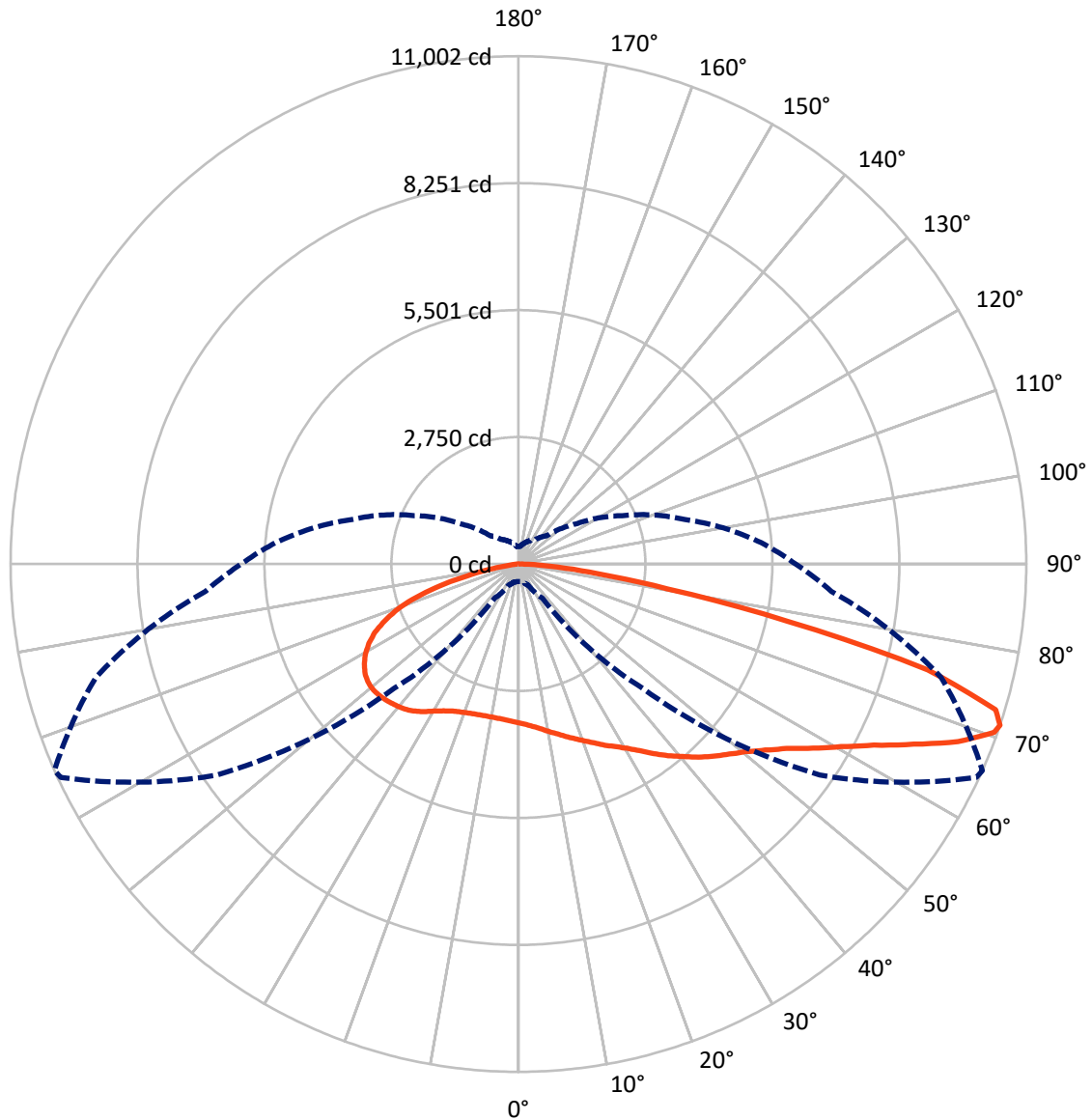
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P395084
CATALOG NUMBER: LAS45S-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P395084
 CATALOG NUMBER: LAS45S-T3

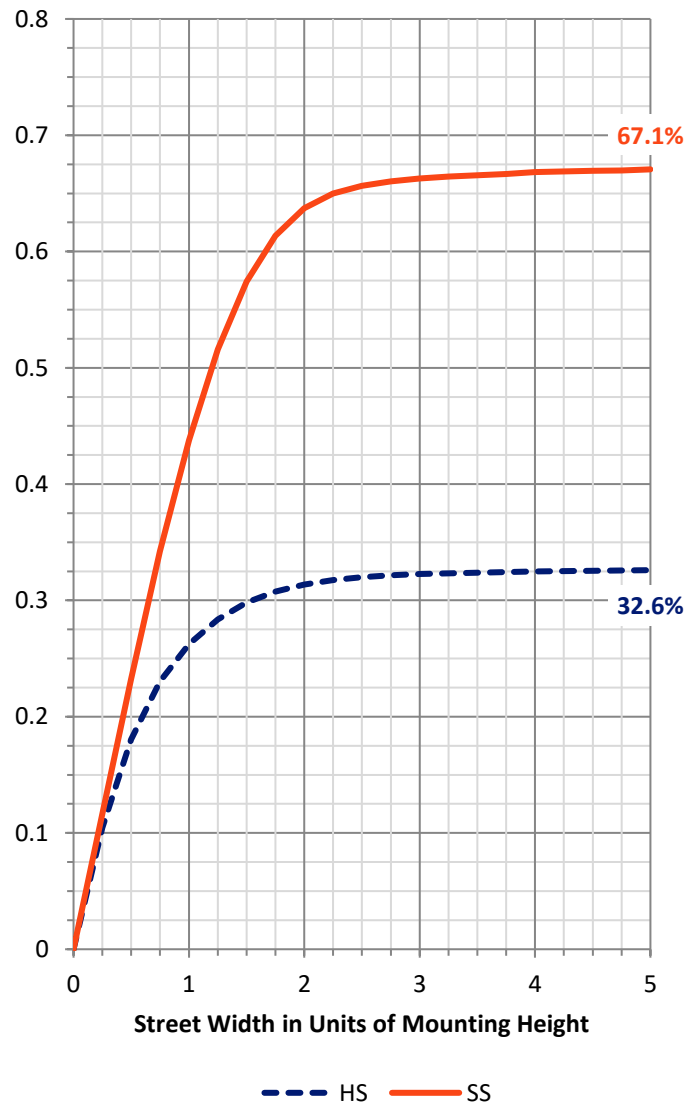
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6591.4	0.0	6591.4
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	13497.6	0.0	13497.6
	% Fixture	67.2	0.0	67.2
Total	Lumens	20089.0	0.0	20089.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	1.6
10°-20°	999.2	5.0
20°-30°	1723.0	8.6
30°-40°	2587.9	12.9
40°-50°	3490.7	17.4
50°-60°	4274.3	21.3
60°-70°	4035.1	20.1
70°-80°	2335.3	11.6
80°-90°	313.0	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°	20089.0	100.0
0°-180°	20089.0	100.0

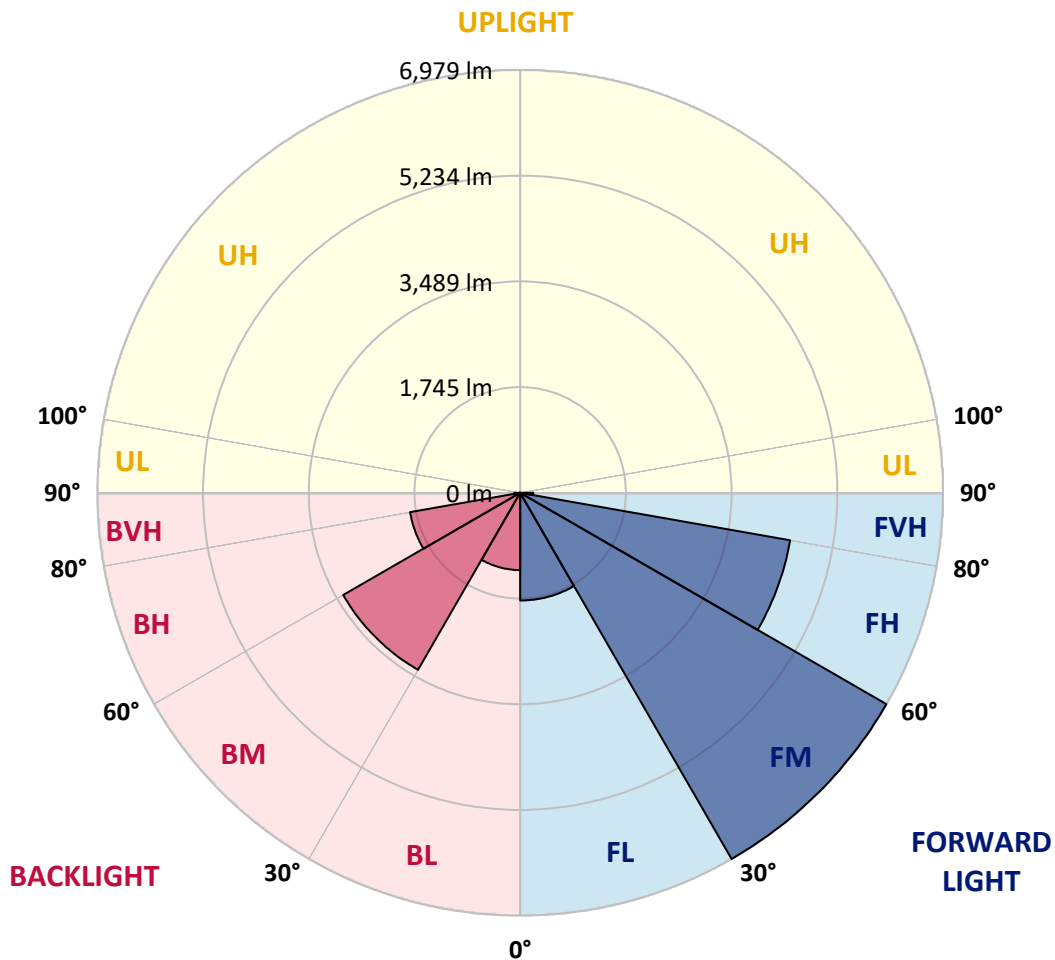


REPORT NUMBER: P395084
 CATALOG NUMBER: LAS45S-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1777.5	8.8			
FM	(30°-60°)	6979.0	34.7			
FH	(60°-80°)	4525.1	22.5			G2/5000
FVH	(80°-90°)	216.1	1.1			G2/225
BL	(0°-30°)	1275.1	6.3	B3/2500		
BM	(30°-60°)	3374.0	16.8	B3/5000		
BH	(60°-80°)	1845.4	9.2	B3/2500		G3/2500
BVH	(80°-90°)	96.9	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: P395084
 CATALOG NUMBER: LAS45S-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7
2.5°	3533.0	3531.3	3532.4	3528.4	3518.0	3514.0	3503.6	3486.3	3485.7	3470.7	3460.9
5°	3624.8	3623.1	3617.9	3611.5	3600.6	3595.4	3575.7	3543.4	3540.5	3519.2	3493.2
7.5°	3709.7	3709.1	3707.9	3695.8	3684.3	3671.0	3651.9	3618.5	3609.2	3578.6	3538.8
10°	3810.7	3805.5	3801.5	3791.1	3779.5	3762.8	3734.5	3696.4	3695.8	3654.3	3597.7
12.5°	3910.0	3912.3	3904.2	3894.4	3871.9	3856.9	3825.1	3789.9	3777.2	3735.7	3668.7
15°	4020.3	4021.4	4007.6	3999.5	3985.0	3963.1	3919.8	3879.4	3877.7	3824.6	3749.5
17.5°	4152.5	4158.2	4141.5	4130.5	4106.3	4073.4	4027.8	3983.9	3978.7	3925.0	3844.2
20°	4299.1	4292.2	4288.7	4266.8	4244.3	4201.0	4151.3	4101.1	4090.7	4032.4	3948.7
22.5°	4452.7	4450.9	4450.3	4420.3	4395.5	4334.3	4270.8	4220.0	4208.5	4150.2	4058.9
25°	4649.5	4655.3	4627.0	4603.3	4562.9	4483.8	4413.4	4340.7	4347.6	4282.4	4195.2
27.5°	4897.2	4897.2	4883.9	4846.4	4781.1	4670.3	4576.2	4482.1	4478.6	4425.5	4334.9
30°	5219.9	5217.6	5207.8	5172.0	5058.8	4930.1	4760.3	4648.9	4631.0	4560.6	4515.0
32.5°	5389.6	5398.3	5415.0	5407.5	5355.5	5230.8	5009.2	4824.4	4816.9	4737.8	4689.9
35°	5498.1	5506.8	5529.3	5551.8	5522.4	5442.7	5246.4	5064.6	5043.2	4926.0	4883.9
37.5°	5634.4	5636.7	5650.0	5681.1	5678.8	5618.2	5468.1	5289.7	5269.5	5135.0	5101.0
40°	5798.3	5798.9	5809.3	5831.8	5831.2	5775.8	5682.3	5514.3	5479.1	5367.7	5316.3
42.5°	5988.2	5972.7	5987.1	6007.3	6007.3	5965.2	5896.5	5733.1	5720.4	5588.8	5518.3
45°	6162.6	6156.2	6165.5	6176.4	6179.9	6159.1	6098.5	5956.5	5936.9	5797.7	5699.6
47.5°	6339.8	6333.5	6323.7	6361.8	6377.9	6403.3	6341.6	6174.7	6153.4	5968.0	5852.0
50°	6472.6	6468.6	6469.1	6509.5	6576.5	6644.1	6629.6	6428.1	6386.6	6144.1	5988.2
52.5°	6467.4	6462.2	6476.1	6573.0	6728.9	6898.1	6947.1	6738.7	6696.6	6363.5	6115.3
55°	6173.0	6188.0	6259.6	6497.4	6802.8	7173.4	7338.5	7128.4	7050.5	6621.5	6271.1
57.5°	5662.1	5633.2	5796.0	6147.0	6694.3	7358.2	7734.6	7572.9	7527.9	6924.0	6419.5
60°	4765.0	4760.3	5051.9	5525.3	6346.7	7419.4	8154.2	8108.6	8029.0	7282.0	6553.4
62.5°	3535.9	3552.7	3774.9	4528.9	5704.2	7232.3	8573.9	8724.0	8641.5	7704.5	6682.2
65°	2088.1	2093.3	2333.4	3046.9	4620.1	6726.0	8861.4	9488.4	9410.4	8247.8	6808.6
67.5°	875.8	927.7	1087.0	1562.2	3160.7	5792.5	8865.5	10259.6	10268.9	8870.1	6917.7
70°	429.5	435.9	501.1	637.9	1316.8	4513.3	8332.1	10880.2	10930.4	9407.6	6896.9
71°	381.0	381.6	409.3	506.3	904.6	3816.5	7965.5	10939.7	11001.5	9476.8	6804.0
72.5°	338.3	337.7	354.5	394.9	586.0	2674.0	7063.7	10723.2	10809.8	9270.7	6526.9
75°	271.9	273.6	285.8	307.7	407.6	1214.6	5140.2	9043.3	9161.6	7850.0	5439.2
77.5°	207.2	211.9	227.5	244.2	304.8	734.9	3256.5	6162.0	5965.2	4989.5	3895.6
80°	155.3	157.0	167.4	185.9	224.0	460.7	1828.9	3190.7	3274.4	2632.5	2110.0
82.5°	108.0	111.4	119.5	128.7	144.9	291.5	1109.0	1727.3	1714.6	1128.6	823.8
85°	64.1	67.0	69.9	76.8	82.6	148.9	613.7	869.4	847.5	291.5	173.2
87.5°	23.7	24.8	27.7	26.0	30.0	49.1	210.7	217.6	212.4	50.2	36.9
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: P395084
 CATALOG NUMBER: LAS45S-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7
2.5°	3449.3	3445.3	3429.7	3411.8	3396.2	3384.7	3370.8	3360.4	3357.0	3346.6	3348.9
5°	3471.8	3459.1	3421.0	3384.7	3347.1	3315.4	3287.1	3265.2	3249.0	3236.9	3246.1
7.5°	3508.2	3484.5	3428.5	3366.2	3305.6	3254.2	3209.2	3166.4	3137.0	3127.2	3121.4
10°	3559.0	3526.7	3443.5	3355.2	3270.4	3193.6	3118.5	3066.6	3016.9	2996.7	2985.2
12.5°	3623.1	3576.3	3466.6	3354.1	3239.8	3129.5	3017.5	2939.0	2872.0	2850.1	2836.2
15°	3699.9	3641.0	3505.3	3360.4	3206.9	3045.8	2908.4	2801.6	2720.2	2689.6	2681.5
17.5°	3782.4	3714.3	3552.1	3372.0	3173.4	2966.7	2798.7	2669.4	2579.9	2544.7	2543.5
20°	3884.0	3807.2	3611.5	3395.1	3139.9	2888.8	2689.6	2548.7	2457.0	2411.9	2403.8
22.5°	4001.2	3913.5	3692.4	3421.6	3112.2	2809.7	2586.3	2425.2	2331.1	2290.7	2281.5
25°	4124.8	4029.5	3789.3	3465.5	3087.9	2743.9	2489.3	2323.0	2226.0	2181.0	2171.8
27.5°	4278.9	4173.8	3903.6	3532.4	3075.8	2682.1	2406.2	2227.2	2129.1	2076.5	2073.1
30°	4452.1	4349.3	4056.1	3611.0	3080.4	2632.5	2334.6	2142.9	2036.7	1985.9	1973.2
32.5°	4634.5	4536.9	4217.7	3718.9	3092.6	2586.8	2261.8	2057.5	1946.6	1892.4	1884.3
35°	4836.6	4744.2	4388.6	3816.5	3098.3	2529.1	2176.4	1972.0	1858.9	1811.5	1802.3
37.5°	5053.6	4947.4	4563.5	3893.8	3083.3	2456.4	2092.7	1895.2	1786.7	1744.6	1739.4
40°	5263.2	5146.6	4704.4	3947.5	3057.9	2384.8	2018.8	1828.3	1732.5	1696.7	1690.3
42.5°	5447.3	5316.9	4812.3	3990.2	3030.2	2320.7	1957.6	1779.2	1694.4	1663.2	1657.4
45°	5617.6	5465.2	4919.1	4028.3	3003.7	2263.0	1912.0	1742.8	1664.3	1636.6	1633.2
47.5°	5753.9	5599.7	5005.1	4054.3	2966.1	2217.4	1871.0	1711.1	1641.2	1619.9	1618.1
50°	5889.5	5717.5	5078.4	4058.4	2924.6	2172.3	1835.2	1682.2	1620.5	1606.0	1606.0
52.5°	6009.0	5821.4	5129.8	4030.7	2866.3	2121.5	1791.3	1649.9	1596.2	1592.2	1593.3
55°	6126.2	5917.8	5143.1	3965.4	2798.7	2070.7	1742.8	1606.0	1558.7	1561.6	1563.9
57.5°	6223.8	5961.1	5106.1	3854.0	2717.3	1999.2	1677.0	1536.8	1481.9	1483.6	1488.8
60°	6279.2	5954.2	5014.4	3716.0	2600.7	1904.5	1579.5	1425.9	1347.4	1333.0	1340.5
62.5°	6308.6	5908.6	4859.1	3534.2	2463.9	1779.2	1423.6	1245.2	1150.0	1158.0	1152.3
65°	6306.9	5827.2	4652.4	3313.1	2278.0	1573.7	1216.9	1030.5	966.4	945.6	943.9
67.5°	6266.5	5673.6	4356.8	3006.5	2027.4	1310.5	969.9	822.1	756.8	754.5	747.0
70°	6111.8	5427.1	3957.9	2659.6	1667.2	979.7	740.7	619.4	561.1	489.5	486.7
71°	6004.4	5280.5	3725.3	2482.4	1505.0	865.9	652.3	554.2	463.6	377.5	377.5
72.5°	5688.1	5008.0	3404.3	2204.7	1226.7	708.3	538.6	445.1	315.8	296.2	297.3
75°	4938.7	4281.8	2785.4	1655.7	829.6	486.1	375.8	291.5	216.5	235.5	241.9
77.5°	3713.7	3268.6	2070.2	1042.0	472.2	310.0	259.8	191.7	172.0	194.0	193.4
80°	2128.5	2029.8	1276.4	557.1	206.1	195.1	183.6	139.7	131.6	147.2	147.2
82.5°	1047.2	1125.1	697.4	207.8	94.7	113.7	117.8	97.6	91.8	99.3	101.6
85°	343.5	495.9	256.9	74.5	54.3	56.6	52.0	50.2	49.6	51.4	50.8
87.5°	49.6	89.5	36.9	28.9	22.5	19.6	16.2	15.0	12.7	11.0	10.4
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)