

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: McGRAW-EDISON

Report Number: P522806

Luminaire Tested: **GALN-SA6B-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33767 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

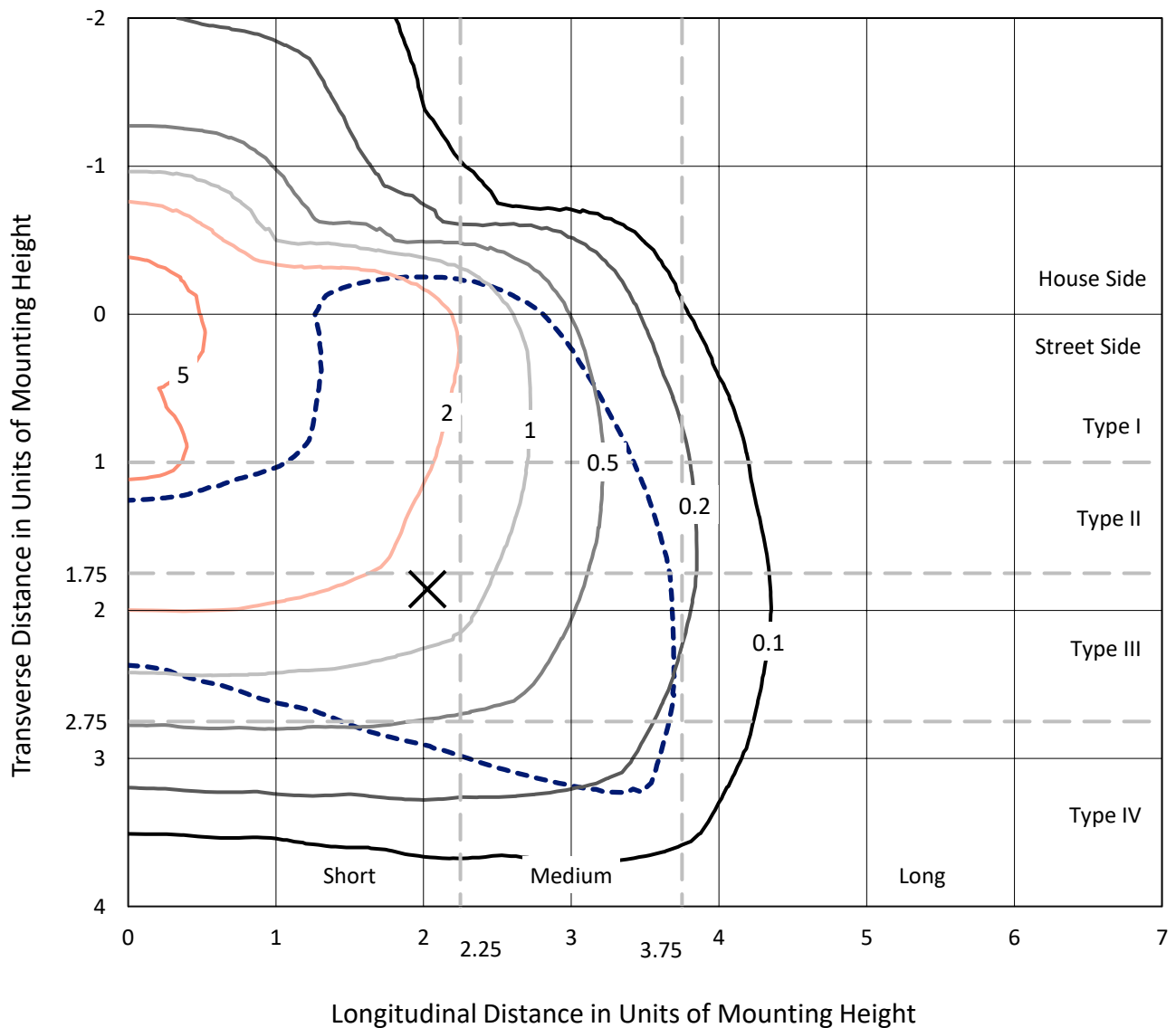
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

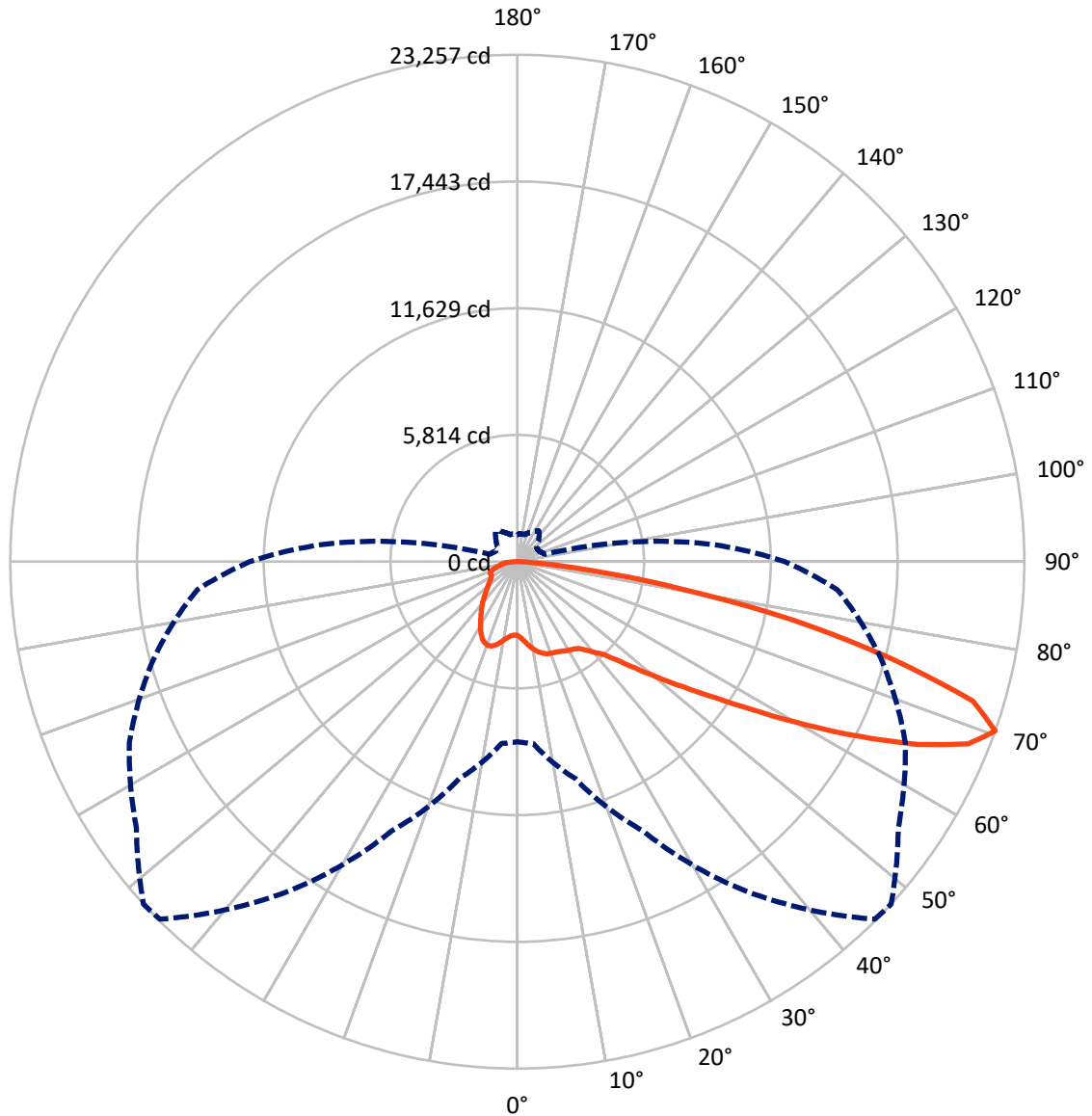
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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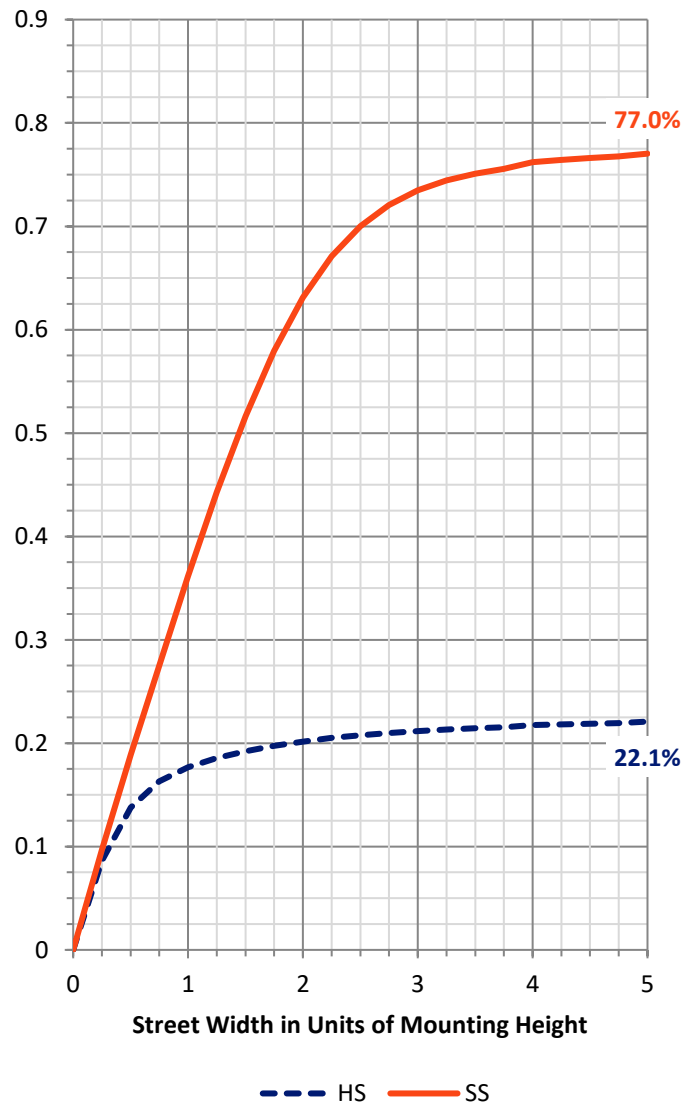
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7645.5	0.0	7645.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26121.5	0.0	26121.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	33767.0	0.0	33767.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.4	1.0
10°-20°	1168.1	3.5
20°-30°	1942.6	5.8
30°-40°	2753.3	8.2
40°-50°	4064.5	12.0
50°-60°	7039.9	20.8
60°-70°	9944.1	29.4
70°-80°	5716.4	16.9
80°-90°	788.7	2.3
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°	33767.0	100.0
0°-180°	33767.0	100.0



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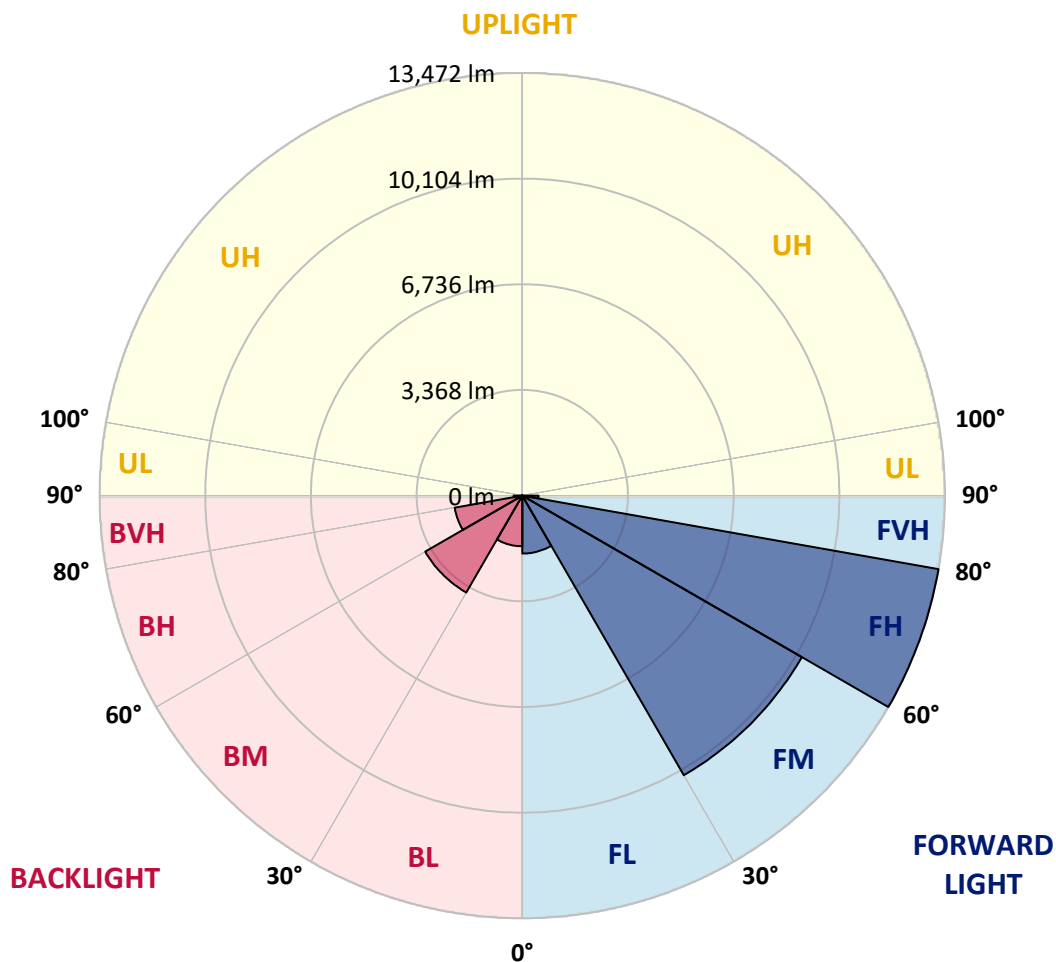
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1846.5	5.5			
FM	(30°-60°)	10288.2	30.5			
FH	(60°-80°)	13471.6	39.9			G5
FVH	(80°-90°)	515.2	1.5			G4/750
BL	(0°-30°)	1613.6	4.8	B3/2500		
BM	(30°-60°)	3569.6	10.6	B3/5000		
BH	(60°-80°)	2188.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	273.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8
2.5°	3608.4	3595.8	3594.0	3566.9	3552.4	3525.3	3514.5	3489.2	3458.5	3427.7	3398.8
5°	3892.1	3892.1	3879.5	3841.5	3781.9	3720.5	3693.4	3644.6	3557.8	3487.4	3427.7
7.5°	4183.0	4186.7	4161.4	4105.3	4020.4	3921.0	3895.7	3823.5	3700.6	3597.6	3509.1
10°	4434.2	4434.2	4399.9	4324.0	4217.4	4109.0	4083.7	4002.3	3865.0	3736.7	3621.1
12.5°	4625.7	4625.7	4580.6	4481.2	4365.5	4268.0	4239.1	4161.4	4033.1	3890.3	3744.0
15°	4750.4	4741.4	4690.8	4578.8	4466.7	4381.8	4361.9	4296.9	4179.4	4034.9	3870.4
17.5°	4755.8	4752.2	4703.4	4609.5	4511.9	4454.1	4441.4	4398.1	4305.9	4168.6	3995.1
20°	4651.0	4658.3	4625.7	4558.9	4511.9	4486.6	4481.2	4466.7	4401.7	4273.4	4099.9
22.5°	4539.0	4551.7	4520.9	4484.8	4481.2	4506.5	4510.1	4513.7	4472.2	4347.5	4188.5
25°	4511.9	4520.9	4490.2	4457.7	4477.6	4544.4	4558.9	4573.3	4540.8	4436.0	4293.3
27.5°	4649.2	4642.0	4582.4	4511.9	4524.6	4614.9	4634.8	4651.0	4634.8	4544.4	4423.4
30°	5037.7	5014.2	4895.0	4689.0	4623.9	4687.2	4707.1	4752.2	4752.2	4685.4	4564.3
32.5°	5688.2	5643.0	5424.4	5019.7	4793.8	4755.8	4775.7	4849.8	4887.7	4835.3	4703.4
35°	6477.8	6430.9	6118.3	5574.4	5104.6	4893.2	4887.7	4970.9	5072.1	4954.6	4782.9
37.5°	7271.1	7222.3	6846.5	6235.7	5558.1	5182.3	5149.8	5178.7	5222.0	5007.0	4893.2
40°	8064.3	8006.5	7677.6	6974.7	6112.8	5565.3	5480.4	5350.3	5332.3	5178.7	5106.4
42.5°	8850.3	8797.9	8631.7	7804.1	6777.8	5939.4	5809.3	5585.2	5653.9	5561.7	5498.5
45°	9643.6	9647.2	9470.1	8734.7	7580.1	6629.6	6454.4	6103.8	6266.4	6232.1	6268.2
47.5°	10346.5	10337.4	10274.2	9638.2	8575.7	7518.6	7292.8	6886.2	7164.5	7291.0	7567.4
50°	11027.7	11022.3	11025.9	10662.7	9732.1	8575.7	8326.3	7899.9	8526.9	8966.0	9461.1
52.5°	12003.4	12034.2	11815.5	11719.7	11137.9	9824.3	9549.6	9108.7	10136.9	10828.9	11795.6
55°	12982.8	12957.5	12785.8	12885.2	12608.8	11302.3	11015.0	10664.5	11929.4	12686.5	14139.2
57.5°	13559.2	13568.2	13743.5	14229.6	14424.7	13145.4	12885.2	12614.2	13944.1	14480.7	16224.4
60°	14077.8	14119.4	14623.5	15541.4	16070.8	15409.5	15178.2	14914.4	15792.6	16005.8	18035.0
62.5°	14240.4	14368.7	15248.7	16621.9	17675.4	17964.5	17677.2	17095.4	17552.5	17469.4	19261.9
65°	13429.1	13604.4	15181.8	17026.7	19108.3	20389.4	20206.9	19126.4	19052.3	18551.7	19462.4
67.5°	11293.3	11468.6	13494.2	16177.4	19701.0	22489.0	22306.5	20608.0	19963.0	18652.9	17944.6
70°	8263.1	8373.3	10310.3	13620.6	18510.2	23193.8	23257.0	21330.8	19637.7	17277.9	14733.7
72.5°	4761.3	5005.2	6362.2	9582.1	15122.2	21412.1	21851.2	19827.4	17581.4	14413.9	10301.3
75°	2047.3	2052.7	2941.7	5285.3	10241.7	17211.0	17635.6	16435.8	13806.8	9967.0	5500.3
77.5°	973.9	992.0	1293.8	2359.9	5637.6	11891.4	13037.0	11611.3	8830.5	4788.4	2078.0
80°	632.4	645.1	791.4	1170.9	2764.6	6895.2	7693.9	6698.3	3895.7	1711.2	896.2
82.5°	383.1	386.7	529.4	715.5	1521.4	3122.4	3680.7	2907.4	1662.4	1024.5	527.6
85°	233.1	234.9	321.6	442.7	923.3	1078.7	1107.6	1098.6	975.7	670.4	281.9
87.5°	112.0	115.6	166.2	209.6	363.2	334.3	316.2	366.8	460.8	361.4	121.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8	3389.8
2.5°	3386.2	3380.8	3368.1	3362.7	3359.1	3360.9	3359.1	3359.1	3360.9	3360.9	3360.9
5°	3402.4	3393.4	3373.5	3373.5	3384.4	3409.7	3433.2	3451.2	3471.1	3469.3	3469.3
7.5°	3472.9	3456.7	3433.2	3440.4	3467.5	3507.3	3548.8	3588.6	3628.3	3631.9	3630.1
10°	3575.9	3559.7	3534.4	3543.4	3586.8	3646.4	3698.8	3756.6	3800.0	3812.6	3809.0
12.5°	3693.4	3660.8	3639.2	3664.5	3733.1	3812.6	3863.2	3906.6	3937.3	3955.4	3948.1
15°	3812.6	3781.9	3756.6	3809.0	3892.1	3966.2	3991.5	3998.7	4004.2	4022.2	4018.6
17.5°	3928.3	3886.7	3877.7	3946.3	4025.8	4058.4	4043.9	4013.2	3989.7	4004.2	4002.3
20°	4031.3	3998.7	3995.1	4063.8	4094.5	4063.8	4002.3	3948.1	3906.6	3910.2	3908.4
22.5°	4128.8	4103.5	4107.2	4136.1	4087.3	3982.5	3881.3	3807.2	3762.0	3771.1	3776.5
25°	4237.3	4212.0	4221.0	4174.0	4013.2	3830.7	3684.3	3621.1	3603.0	3621.1	3633.7
27.5°	4378.2	4361.9	4356.5	4175.8	3881.3	3606.6	3440.4	3416.9	3433.2	3472.9	3492.8
30°	4530.0	4530.0	4501.1	4145.1	3700.6	3337.4	3192.8	3196.5	3252.5	3308.5	3328.4
32.5°	4676.3	4707.1	4616.7	4062.0	3467.5	3075.4	2965.2	2968.8	3017.6	3086.2	3104.3
35°	4797.4	4885.9	4716.1	3910.2	3192.8	2854.9	2771.8	2723.0	2724.9	2777.3	2791.7
37.5°	4963.6	5128.1	4773.9	3684.3	2900.1	2667.0	2573.1	2488.1	2432.1	2410.4	2410.4
40°	5252.7	5494.9	4788.4	3350.0	2623.7	2488.1	2354.4	2253.2	2144.8	2047.3	2029.2
42.5°	5742.4	6047.8	4759.5	2965.2	2374.3	2291.2	2161.1	2036.4	1886.4	1749.1	1738.3
45°	6609.7	6767.0	4681.8	2565.8	2152.1	2101.5	1975.0	1839.5	1680.4	1557.6	1548.5
47.5°	7999.3	7777.0	4578.8	2211.7	1949.7	1935.2	1837.6	1680.4	1521.4	1436.5	1427.5
50°	10028.5	9367.1	4564.3	1955.1	1787.1	1794.3	1714.8	1570.2	1431.1	1360.6	1349.8
52.5°	12471.4	11287.9	4660.1	1774.4	1644.3	1671.4	1631.7	1497.9	1375.1	1315.4	1304.6
55°	14842.1	13015.3	4717.9	1633.5	1510.6	1561.2	1566.6	1454.6	1342.5	1282.9	1275.7
57.5°	16766.5	14316.3	4461.3	1505.2	1394.9	1472.6	1512.4	1429.3	1326.3	1281.1	1273.9
60°	18105.4	14930.7	3731.3	1391.3	1310.0	1402.2	1492.5	1431.1	1366.0	1371.5	1375.1
62.5°	18531.9	14657.8	2798.9	1306.4	1252.2	1378.7	1525.0	1505.2	1438.3	1479.9	1487.1
65°	17825.4	13530.3	2029.2	1239.6	1201.6	1394.9	1622.6	1559.4	1413.0	1443.7	1443.7
67.5°	15460.1	11656.5	1579.3	1178.1	1143.8	1425.7	1720.2	1554.0	1353.4	1389.5	1357.0
70°	12263.6	9016.6	1315.4	1109.5	1082.4	1380.5	1729.2	1497.9	1282.9	1290.1	1228.7
72.5°	8138.4	5928.5	1131.1	1044.4	988.4	1241.4	1655.1	1425.7	1214.3	1172.7	1111.3
75°	3987.9	2956.1	986.6	963.1	865.5	1080.5	1554.0	1357.0	1140.2	1075.1	1040.8
77.5°	1544.9	1257.6	842.0	860.1	753.5	952.3	1420.2	1259.4	1042.6	954.1	927.0
80°	749.9	713.7	690.2	717.4	619.8	811.3	1297.4	1174.5	952.3	854.7	814.9
82.5°	466.2	440.9	529.4	558.3	477.0	740.8	1230.5	1102.2	838.4	708.3	675.8
85°	236.7	253.0	354.2	381.3	341.5	589.1	1013.7	827.6	605.3	502.3	505.9
87.5°	90.3	121.1	186.1	200.6	182.5	310.8	558.3	482.5	388.5	263.8	243.9
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)