

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: P651432

Luminaire Tested: **GALN-SA5D-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P651432
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-SA5D-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32604.7 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

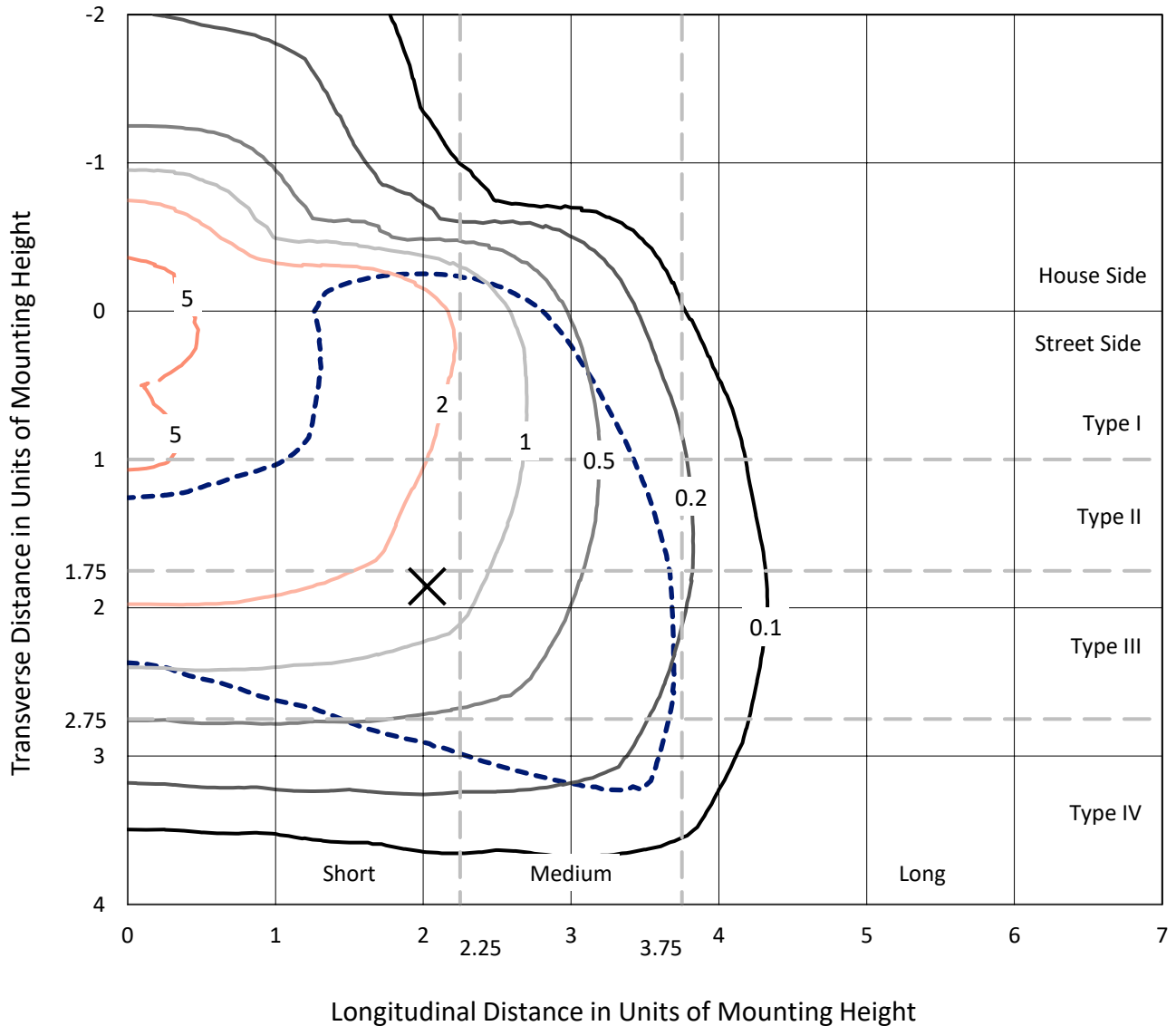
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651432
 CATALOG NUMBER: GALN-SA5D-840-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

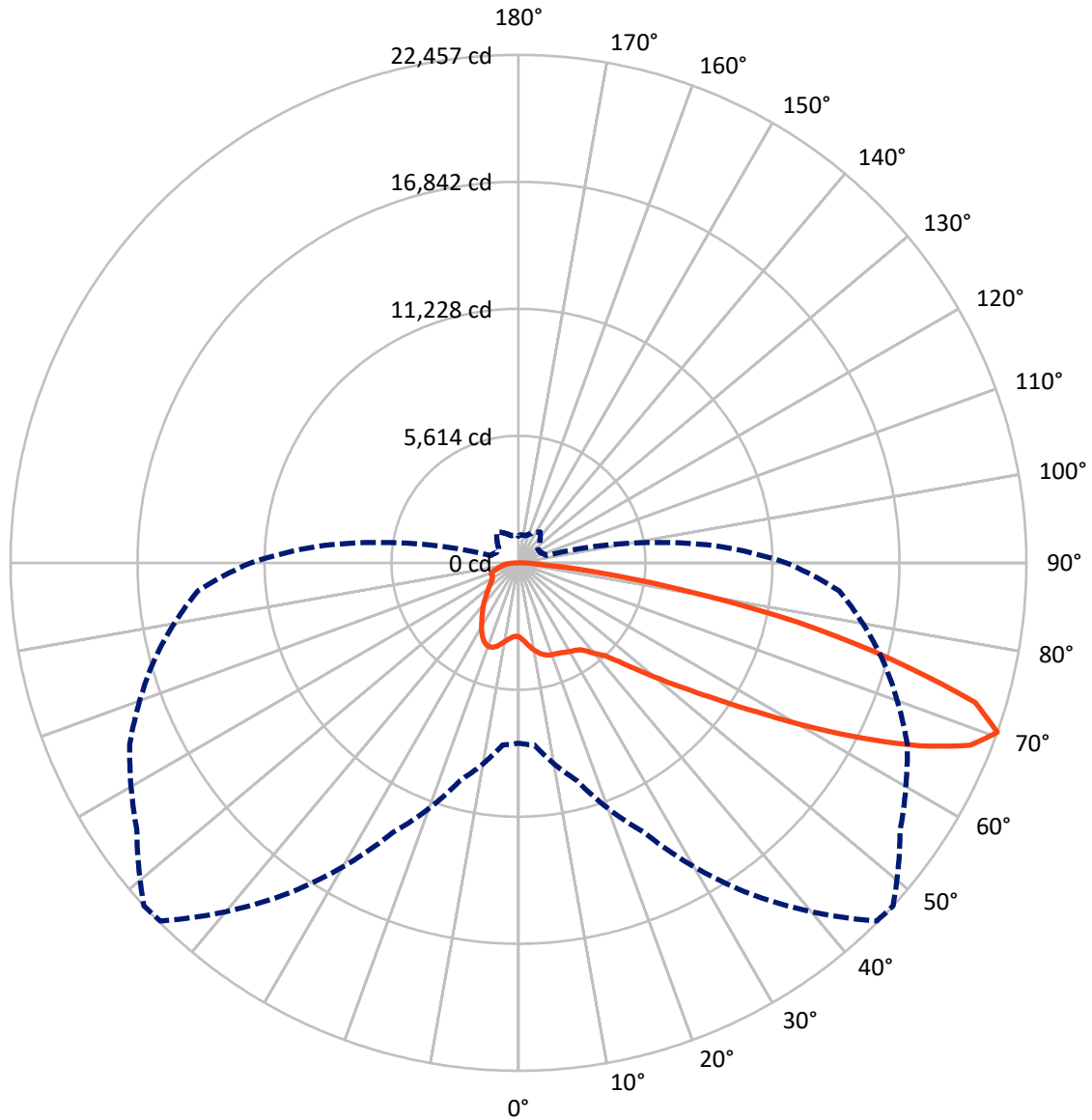
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P651432
CATALOG NUMBER: GALN-SA5D-840-U-T4W

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA5D-840-U-T4W

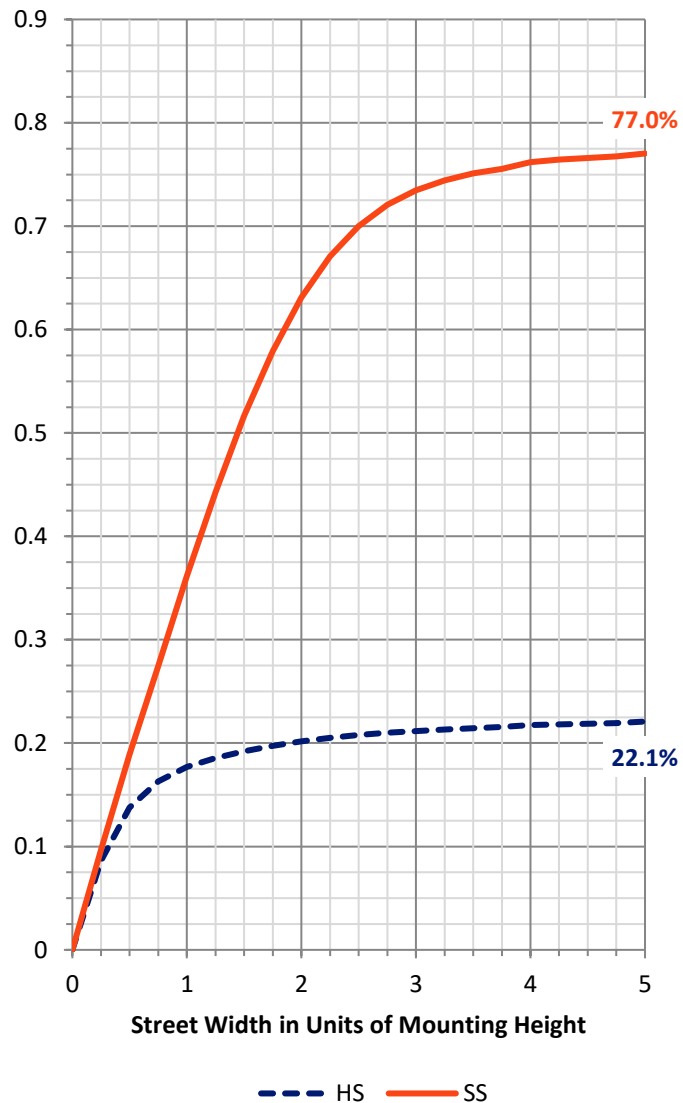
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7382.3	0.0	7382.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25222.4	0.0	25222.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	32604.7	0.0	32604.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	1.0
10°-20°	1127.9	3.5
20°-30°	1875.7	5.8
30°-40°	2658.6	8.2
40°-50°	3924.6	12.0
50°-60°	6797.6	20.8
60°-70°	9601.8	29.4
70°-80°	5519.6	16.9
80°-90°	761.6	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°	32604.7	100.0
0°-180°	32604.7	100.0

Coefficient of Utilization



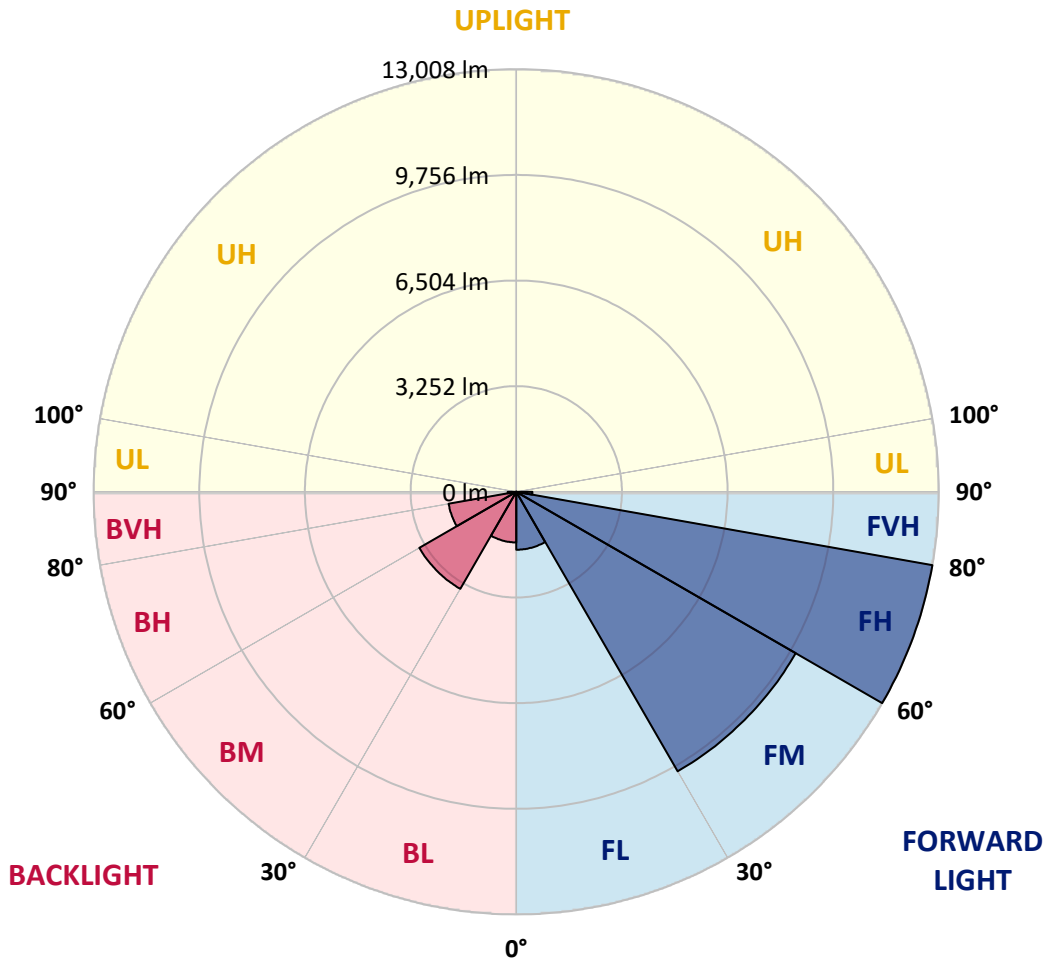
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 CATALOG NUMBER: GALN-SA5D-840-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.9	5.5			
FM (30°-60°)	9934.0	30.5			
FH (60°-80°)	13007.9	39.9			G5
FVH (80°-90°)	497.5	1.5			G3/500
BL (0°-30°)	1558.1	4.8	B3/2500		
BM (30°-60°)	3446.7	10.6	B3/5000		
BH (60°-80°)	2113.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	264.1	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





REPORT NUMBER: P651432

CATALOG NUMBER: GALN-SA5D-840-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1
2.5°	3484.3	3472.0	3470.3	3444.1	3430.2	3403.9	3393.5	3369.0	3339.4	3309.8	3281.8
5°	3758.2	3758.2	3746.0	3709.3	3651.7	3592.4	3566.3	3519.2	3435.4	3367.4	3309.8
7.5°	4039.1	4042.5	4018.1	3964.1	3882.1	3786.1	3761.6	3691.8	3573.2	3473.8	3388.3
10°	4281.6	4281.6	4248.4	4175.1	4072.2	3967.5	3943.1	3864.6	3732.0	3608.1	3496.5
12.5°	4466.6	4466.6	4422.9	4326.9	4215.3	4121.1	4093.1	4018.1	3894.3	3756.4	3615.1
15°	4586.9	4578.2	4529.3	4421.1	4313.0	4231.0	4211.8	4149.0	4035.5	3896.0	3737.2
17.5°	4592.1	4588.7	4541.6	4450.8	4356.6	4300.8	4288.6	4246.7	4157.7	4025.1	3857.6
20°	4490.9	4497.9	4466.6	4402.0	4356.6	4332.2	4326.9	4313.0	4250.2	4126.3	3958.8
22.5°	4382.8	4395.0	4365.3	4330.4	4326.9	4351.3	4354.9	4358.3	4318.2	4197.9	4044.3
25°	4356.6	4365.3	4335.7	4304.2	4323.4	4388.0	4402.0	4415.9	4384.6	4283.3	4145.5
27.5°	4489.2	4482.2	4424.7	4356.6	4368.8	4456.0	4475.2	4490.9	4475.2	4388.0	4271.1
30°	4864.3	4841.6	4726.5	4527.6	4464.8	4525.8	4545.0	4588.7	4588.7	4524.1	4407.2
32.5°	5492.4	5448.8	5237.7	4846.9	4628.8	4592.1	4611.4	4682.9	4719.5	4668.9	4541.6
35°	6254.9	6209.5	5907.7	5382.5	4928.8	4724.7	4719.5	4799.8	4897.5	4784.0	4618.4
37.5°	7020.8	6973.7	6610.8	6021.1	5366.8	5003.9	4972.5	5000.4	5042.3	4834.7	4724.7
40°	7786.7	7730.9	7413.4	6734.6	5902.5	5373.8	5291.7	5166.2	5148.7	5000.4	4930.6
42.5°	8545.7	8495.1	8334.6	7535.5	6544.5	5734.9	5609.3	5393.0	5459.3	5370.3	5309.2
45°	9311.6	9315.2	9144.2	8434.1	7319.1	6401.4	6232.2	5893.7	6050.7	6017.6	6052.5
47.5°	9990.3	9981.7	9920.5	9306.4	8280.5	7259.8	7041.8	6649.2	6917.9	7040.0	7306.9
50°	10648.2	10642.9	10646.4	10295.7	9397.2	8280.5	8039.7	7628.0	8233.4	8657.3	9135.4
52.5°	11590.2	11619.9	11408.8	11316.3	10754.5	9486.1	9220.9	8795.2	9788.0	10456.2	11389.7
55°	12535.9	12511.5	12345.7	12441.7	12174.7	10913.3	10635.9	10297.5	11518.8	12249.8	13652.5
57.5°	13092.5	13101.2	13270.5	13739.8	13928.2	12693.0	12441.7	12180.0	13464.2	13982.3	15666.0
60°	13593.3	13633.4	14120.1	15006.5	15517.7	14879.1	14655.8	14401.0	15249.0	15454.9	17414.2
62.5°	13750.3	13874.1	14723.8	16049.8	17067.0	17346.1	17068.8	16506.9	16948.3	16868.1	18598.9
65°	12966.9	13136.1	14659.3	16440.6	18450.5	19687.6	19511.4	18468.0	18396.5	17913.2	18792.6
67.5°	10904.6	11073.9	13029.7	15620.6	19022.8	21715.0	21538.8	19898.7	19275.8	18010.9	17327.0
70°	7978.7	8085.1	9955.4	13151.8	17873.1	22395.4	22456.5	20596.6	18961.8	16683.2	14226.6
72.5°	4597.4	4832.9	6143.3	9252.3	14601.7	20675.1	21099.1	19144.9	16976.3	13917.7	9946.8
75°	1976.8	1982.0	2840.4	5103.4	9889.2	16618.6	17028.7	15870.1	13331.5	9624.0	5311.0
77.5°	940.4	957.9	1249.2	2278.6	5443.5	11482.1	12588.3	11211.7	8526.5	4623.6	2006.5
80°	610.7	622.8	764.2	1130.6	2669.4	6657.9	7429.1	6467.7	3761.6	1652.2	865.4
82.5°	369.9	373.4	511.2	690.9	1469.1	3014.9	3554.1	2807.3	1605.1	989.3	509.5
85°	225.1	226.8	310.6	427.5	891.5	1041.6	1069.5	1060.8	942.2	647.3	272.1
87.5°	108.2	111.7	160.5	202.4	350.7	322.8	305.4	354.1	444.9	348.9	116.9
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: P651432
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1
2.5°	3269.6	3264.4	3252.1	3246.9	3243.5	3245.2	3243.5	3243.5	3245.2	3245.2	3245.2
5°	3285.4	3276.6	3257.4	3257.4	3267.9	3292.3	3315.0	3332.5	3351.6	3349.9	3349.9
7.5°	3353.4	3337.7	3315.0	3322.0	3348.1	3386.5	3426.7	3465.0	3503.4	3506.9	3505.2
10°	3452.8	3437.2	3412.7	3421.4	3463.3	3520.8	3571.5	3627.3	3669.2	3681.4	3677.9
12.5°	3566.3	3534.8	3513.9	3538.3	3604.6	3681.4	3730.3	3772.1	3801.7	3819.2	3812.3
15°	3681.4	3651.7	3627.3	3677.9	3758.2	3829.7	3854.1	3861.1	3866.3	3883.7	3880.3
17.5°	3793.1	3753.0	3744.2	3810.5	3887.3	3918.6	3904.7	3875.1	3852.4	3866.3	3864.6
20°	3892.5	3861.1	3857.6	3923.9	3953.5	3923.9	3864.6	3812.3	3772.1	3775.6	3773.9
22.5°	3986.8	3962.3	3965.8	3993.7	3946.6	3845.4	3747.7	3676.2	3632.5	3641.3	3646.5
25°	4091.4	4067.0	4075.7	4030.3	3875.1	3698.8	3557.5	3496.5	3479.0	3496.5	3508.7
27.5°	4227.5	4211.8	4206.5	4032.1	3747.7	3482.5	3322.0	3299.3	3315.0	3353.4	3372.6
30°	4374.0	4374.0	4346.1	4002.4	3573.2	3222.5	3082.9	3086.5	3140.5	3194.6	3213.8
32.5°	4515.4	4545.0	4457.8	3922.2	3348.1	2969.6	2863.1	2866.6	2913.7	2980.0	2997.5
35°	4632.3	4717.8	4553.8	3775.6	3082.9	2756.7	2676.4	2629.3	2631.1	2681.7	2695.7
37.5°	4792.8	4951.6	4609.6	3557.5	2800.3	2575.2	2484.5	2402.5	2348.4	2327.5	2327.5
40°	5071.9	5305.7	4623.6	3234.7	2533.3	2402.5	2273.4	2175.7	2071.0	1976.8	1959.4
42.5°	5544.8	5839.7	4595.6	2863.1	2292.6	2212.3	2086.7	1966.3	1821.5	1688.9	1678.5
45°	6382.3	6534.1	4520.6	2477.5	2077.9	2029.2	1907.0	1776.1	1622.6	1504.0	1495.2
47.5°	7723.9	7509.4	4421.1	2135.6	1882.6	1868.6	1774.4	1622.6	1469.1	1387.1	1378.3
50°	9683.3	9044.7	4407.2	1887.8	1725.6	1732.5	1655.8	1516.2	1381.8	1313.8	1303.3
52.5°	12042.2	10899.4	4499.7	1713.4	1587.7	1613.9	1575.5	1446.4	1327.8	1270.2	1259.7
55°	14331.2	12567.3	4555.5	1577.2	1458.6	1507.5	1512.7	1404.5	1296.3	1238.8	1231.8
57.5°	16189.4	13823.5	4307.8	1453.3	1346.9	1422.0	1460.3	1380.1	1280.7	1237.0	1230.0
60°	17482.2	14416.8	3602.8	1343.4	1264.9	1353.9	1441.1	1381.8	1319.0	1324.2	1327.8
62.5°	17894.0	14153.3	2702.6	1261.4	1209.1	1331.2	1472.6	1453.3	1388.8	1428.9	1435.9
65°	17211.8	13064.6	1959.4	1196.9	1160.2	1346.9	1566.8	1505.7	1364.4	1394.0	1394.0
67.5°	14927.9	11255.3	1524.9	1137.5	1104.4	1376.6	1661.0	1500.5	1306.8	1341.7	1310.3
70°	11841.5	8706.2	1270.2	1071.3	1045.1	1333.0	1669.7	1446.4	1238.8	1245.8	1186.4
72.5°	7858.3	5724.4	1092.2	1008.4	954.4	1198.6	1598.2	1376.6	1172.4	1132.3	1073.0
75°	3850.6	2854.4	952.6	930.0	835.7	1043.3	1500.5	1310.3	1101.0	1038.1	1005.0
77.5°	1491.8	1214.3	813.1	830.5	727.5	919.5	1371.3	1216.1	1006.7	921.2	895.1
80°	724.1	689.2	666.5	692.6	598.5	783.4	1252.8	1134.1	919.5	825.3	786.8
82.5°	450.1	425.7	511.2	539.2	460.6	715.4	1188.2	1064.3	809.5	683.9	652.5
85°	228.6	244.2	342.0	368.1	329.8	568.8	978.8	799.1	584.5	485.0	488.5
87.5°	87.2	116.9	179.7	193.7	176.2	300.1	539.2	465.8	375.1	254.7	235.6
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)