

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: P651898

Luminaire Tested: **GALN-SA5A-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18852.7 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

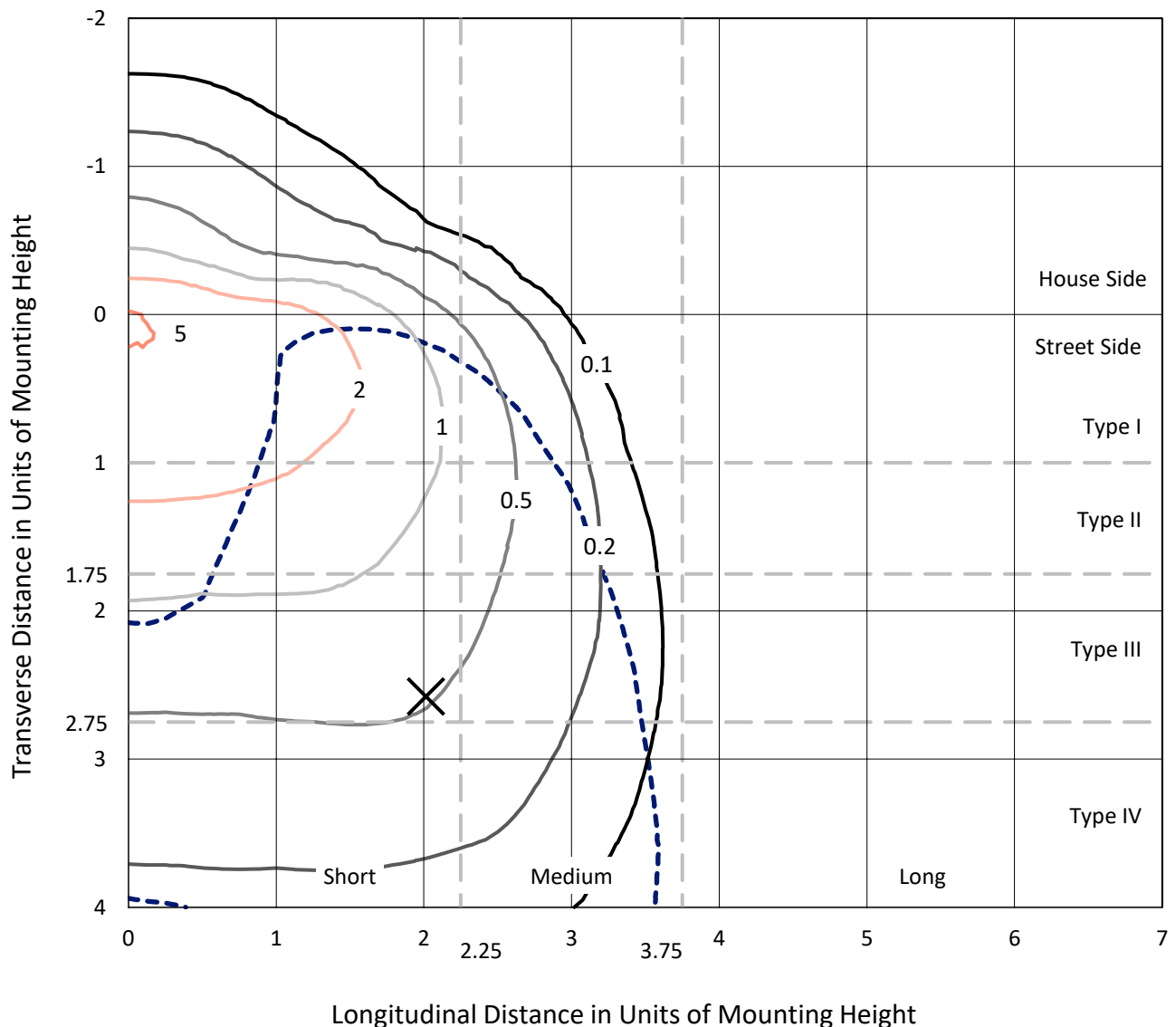
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

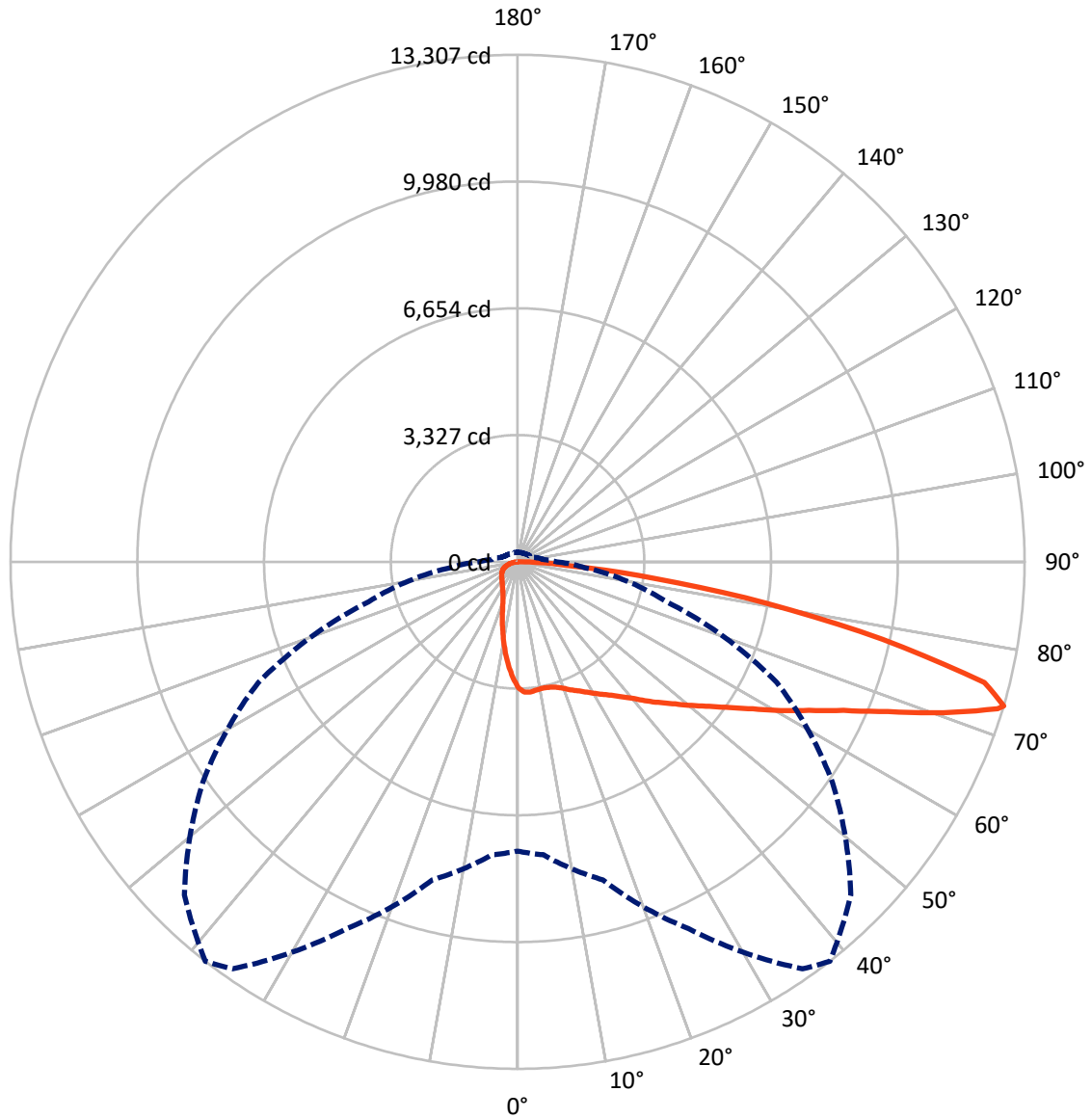
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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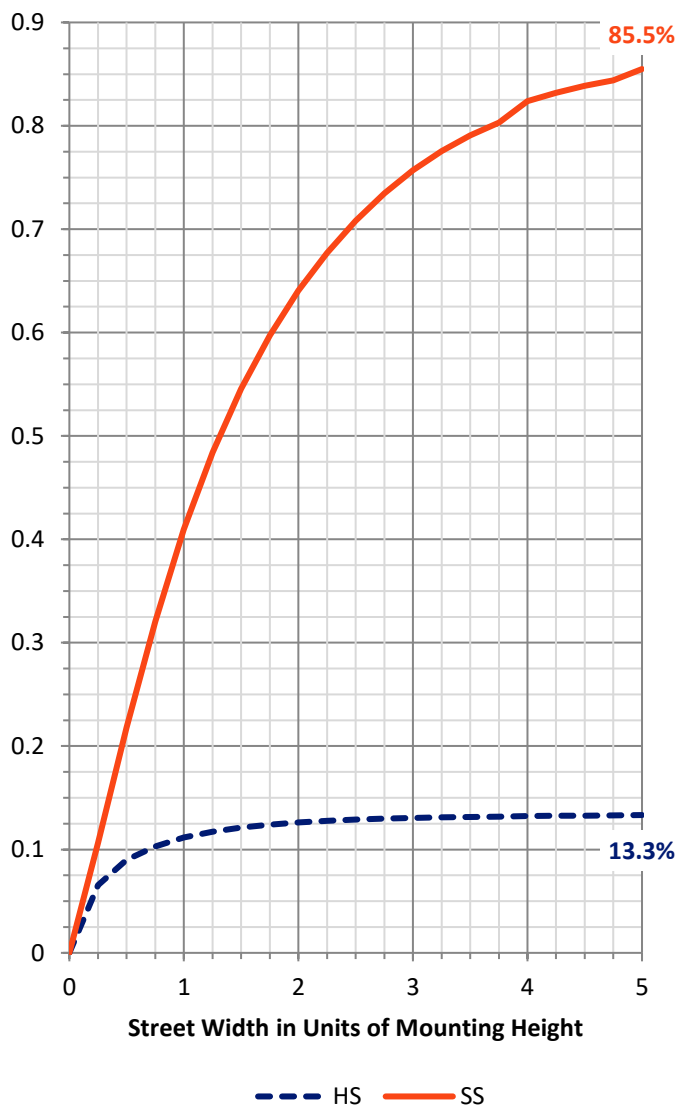
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2534.4	0.0	2534.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16318.3	0.0	16318.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	18852.7	0.0	18852.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	1.5
10°-20°	741.4	3.9
20°-30°	1154.5	6.1
30°-40°	1693.3	9.0
40°-50°	2511.9	13.3
50°-60°	3558.8	18.9
60°-70°	4514.5	23.9
70°-80°	3757.9	19.9
80°-90°	631.4	3.3
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°	18852.7	100.0
0°-180°	18852.7	100.0

Coefficient of Utilization



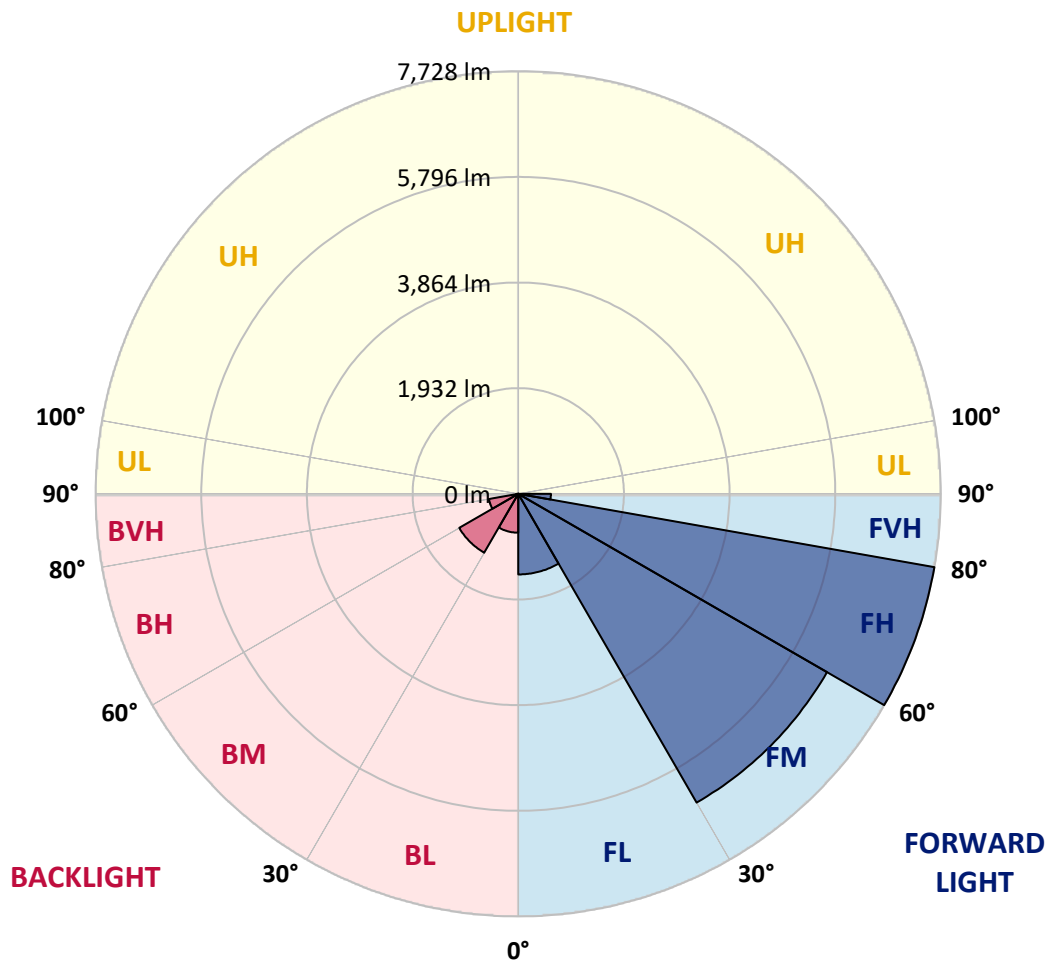
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1473.8	7.8			
FM (30°-60°)	6519.8	34.6			
FH (60°-80°)	7727.7	41.0			G4/12000
FVH (80°-90°)	597.1	3.2			G4/750
BL (0°-30°)	711.2	3.8	B2/1000		
BM (30°-60°)	1244.2	6.6	B2/2500		
BH (60°-80°)	544.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	34.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1
2.5°	3445.2	3462.2	3453.7	3442.0	3434.6	3427.1	3416.4	3385.5	3361.1	3334.5	3292.9
5°	3470.7	3481.4	3473.9	3459.0	3442.0	3434.6	3414.3	3373.8	3334.5	3289.7	3228.0
7.5°	3455.8	3460.1	3451.5	3433.5	3418.6	3404.7	3381.3	3336.6	3288.6	3234.4	3153.5
10°	3402.6	3418.6	3418.6	3403.7	3388.7	3381.3	3357.9	3315.3	3271.7	3209.9	3114.1
12.5°	3359.0	3375.9	3389.8	3385.5	3384.5	3384.5	3366.4	3334.5	3283.3	3224.8	3110.9
15°	3329.1	3349.4	3379.1	3396.2	3406.9	3410.1	3402.6	3374.9	3322.7	3254.6	3123.6
17.5°	3322.7	3347.3	3401.5	3438.8	3466.4	3465.4	3463.2	3425.0	3367.4	3297.2	3139.6
20°	3351.5	3383.4	3459.0	3517.6	3558.0	3550.6	3538.8	3488.8	3421.8	3343.0	3154.5
22.5°	3437.8	3470.7	3553.8	3617.6	3657.0	3657.0	3621.9	3555.9	3484.6	3396.2	3174.8
25°	3561.2	3597.5	3685.8	3750.7	3768.9	3755.0	3719.8	3640.0	3558.0	3472.8	3217.3
27.5°	3712.4	3756.1	3838.1	3892.3	3887.0	3876.3	3840.2	3738.0	3656.0	3578.3	3289.7
30°	3900.8	3932.8	4018.0	4030.7	4011.6	4009.5	3958.3	3856.2	3779.5	3719.8	3393.0
32.5°	4078.7	4107.4	4175.6	4180.9	4146.8	4151.0	4103.2	4009.5	3965.8	3944.5	3566.5
35°	4267.1	4282.0	4340.6	4334.2	4311.8	4308.6	4289.4	4200.0	4213.8	4252.2	3812.5
37.5°	4424.7	4454.4	4487.5	4492.8	4491.7	4502.4	4515.2	4472.5	4552.4	4672.7	4135.0
40°	4569.4	4595.0	4644.0	4661.0	4702.5	4723.8	4767.5	4768.6	4952.7	5150.7	4532.1
42.5°	4667.4	4711.0	4802.6	4833.5	4934.7	4998.5	5063.4	5132.6	5399.9	5654.3	5000.6
45°	4752.6	4810.0	4962.3	5058.1	5195.4	5273.2	5410.5	5555.3	5939.6	6272.9	5476.5
47.5°	4881.4	4932.5	5107.1	5276.3	5484.0	5573.4	5778.8	5995.0	6497.5	6862.6	5932.2
50°	5060.2	5091.1	5268.9	5544.6	5809.7	5924.8	6196.2	6508.2	7093.7	7445.0	6332.5
52.5°	5289.1	5301.9	5443.5	5810.8	6160.0	6302.7	6662.5	7026.6	7615.3	7950.7	6649.8
55°	5559.6	5538.2	5649.0	6093.0	6560.3	6746.7	7133.1	7551.5	8202.0	8359.5	6880.8
57.5°	5826.8	5793.8	5882.1	6435.8	7054.3	7278.9	7729.3	8092.4	8725.8	8741.8	7042.6
60°	6109.9	6085.5	6190.9	6838.2	7660.1	7926.3	8342.6	8653.4	9232.6	9008.0	7068.2
62.5°	6400.6	6361.2	6511.4	7290.6	8342.6	8584.2	8987.7	9249.6	9729.8	9106.9	6822.2
65°	6682.8	6664.7	6896.8	7828.3	9119.7	9394.4	9786.2	9964.0	10127.9	8957.9	6212.2
67.5°	6983.0	7019.2	7389.7	8545.9	10133.3	10478.2	10900.9	10733.7	10241.9	8252.1	5231.6
70°	7440.7	7464.2	8037.0	9486.0	11439.5	11855.8	12060.3	11007.3	9692.5	6911.7	3932.8
72.5°	7637.7	7741.0	8615.1	10472.9	12923.6	13178.1	12449.9	10397.3	8074.3	4695.1	2066.5
73°	7594.1	7717.6	8641.7	10623.0	13039.7	13307.0	12366.9	10083.3	7505.8	4043.5	1771.6
75°	7050.0	7202.3	8295.7	10497.4	12814.1	12654.4	11031.8	8593.8	5072.0	1838.6	807.0
77.5°	5562.7	5606.4	6573.1	8476.7	10090.7	9794.7	8256.3	5371.1	2071.8	683.5	457.8
80°	2790.4	2951.2	3704.9	4855.8	6747.7	6650.8	5211.4	2540.2	863.5	401.4	303.4
82.5°	1342.5	1456.4	1804.5	2367.8	3728.4	3640.0	2580.7	1388.3	548.3	234.2	178.9
85°	864.5	949.7	1148.7	1129.5	1533.1	1463.8	1159.4	1050.8	324.7	122.4	124.6
87.5°	570.6	624.9	749.5	599.4	557.8	504.6	512.1	592.0	63.9	46.8	17.1
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°	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1
2.5°	3275.9	3262.1	3216.3	3171.6	3128.9	3088.5	3061.9	3026.8	3003.4	3009.8	3019.4
5°	3193.9	3163.1	3082.1	3003.4	2928.9	2840.5	2769.2	2711.6	2668.0	2652.0	2648.8
7.5°	3107.7	3055.5	2939.5	2804.2	2677.6	2567.9	2441.3	2378.4	2304.9	2279.4	2270.9
10°	3055.5	2985.2	2822.4	2633.9	2443.4	2261.3	2123.9	2012.2	1911.0	1891.8	1882.3
12.5°	3040.6	2948.0	2728.7	2485.9	2232.5	2009.0	1805.6	1658.7	1560.7	1538.4	1505.4
15°	3032.1	2917.1	2641.4	2336.9	2015.4	1742.8	1528.9	1357.5	1268.0	1208.3	1209.4
17.5°	3024.7	2882.0	2543.4	2174.0	1828.0	1513.9	1277.6	1123.2	1041.2	1009.3	1006.1
20°	3014.0	2840.5	2430.6	2002.6	1614.0	1305.2	1091.3	976.3	920.9	894.3	893.2
22.5°	3009.8	2800.0	2319.8	1828.0	1424.5	1144.5	967.7	886.8	851.7	833.6	833.6
25°	3020.4	2771.3	2203.8	1661.9	1256.3	1007.2	882.6	827.2	807.0	797.4	794.2
27.5°	3053.4	2758.5	2088.8	1495.8	1101.9	913.5	825.1	786.8	771.9	764.4	765.5
30°	3116.2	2757.4	1976.0	1331.9	986.9	842.1	779.4	752.7	741.0	736.7	735.7
32.5°	3217.3	2780.9	1865.3	1196.7	890.0	782.6	736.7	717.5	712.2	709.0	708.0
35°	3388.7	2846.9	1755.6	1073.2	815.5	729.3	696.3	686.7	679.3	682.5	683.5
37.5°	3619.7	2960.7	1651.2	976.3	759.1	689.9	662.2	653.7	649.4	652.6	655.8
40°	3929.6	3124.7	1563.9	898.5	718.6	656.9	632.4	624.9	620.7	626.0	627.0
42.5°	4271.4	3314.2	1491.6	837.9	685.7	629.2	605.8	597.3	594.1	597.3	598.3
45°	4622.6	3534.6	1454.3	794.2	657.9	609.0	584.5	574.9	567.4	565.3	568.5
47.5°	4968.7	3726.2	1453.2	767.6	635.6	590.9	564.2	553.6	544.0	538.7	537.7
50°	5250.8	3878.5	1478.8	755.9	616.5	570.6	544.0	533.4	520.6	510.0	512.1
52.5°	5463.7	3977.5	1490.5	750.6	605.8	549.3	522.8	513.2	498.3	484.4	484.4
55°	5601.1	4000.9	1461.7	745.2	597.3	527.0	498.3	489.7	474.8	461.0	461.0
57.5°	5647.9	3928.6	1358.5	732.5	588.8	507.8	473.7	466.3	454.6	440.8	438.7
60°	5539.3	3683.7	1177.5	694.2	571.7	487.6	447.2	444.0	439.7	428.0	426.9
62.5°	5120.9	3164.1	980.5	644.1	542.9	466.3	422.7	428.0	431.2	424.8	423.7
65°	4424.7	2569.0	837.9	574.9	504.6	436.5	396.0	409.9	418.4	418.4	416.3
67.5°	3588.9	1972.8	705.9	515.3	456.7	396.0	366.3	376.9	383.2	381.1	386.4
70°	2550.9	1336.1	574.9	447.2	396.0	350.3	327.9	327.9	323.6	321.5	321.5
72.5°	1237.1	763.4	466.3	373.7	337.5	299.1	281.1	273.6	265.1	264.0	258.7
73°	1033.8	684.6	445.1	359.9	323.6	291.7	271.5	259.8	254.5	250.2	249.1
75°	629.2	519.6	371.6	303.4	275.8	251.3	233.1	222.5	217.1	214.0	212.9
77.5°	414.1	387.5	288.5	232.1	210.8	195.9	188.5	177.8	174.6	170.3	170.3
80°	308.7	295.9	206.5	164.0	151.2	138.4	136.2	134.1	125.6	120.3	118.2
82.5°	199.1	210.8	140.5	109.7	95.8	85.2	86.2	89.4	80.9	73.4	71.3
85°	141.6	152.2	85.2	50.0	40.5	35.2	39.4	35.2	36.2	28.8	23.5
87.5°	23.5	40.5	14.9	6.4	3.2	2.1	0.0	0.0	0.0	0.0	0.0
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)