

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: P652393

Luminaire Tested: **GALN-SA5B-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652393
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-SA5B-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 23458 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

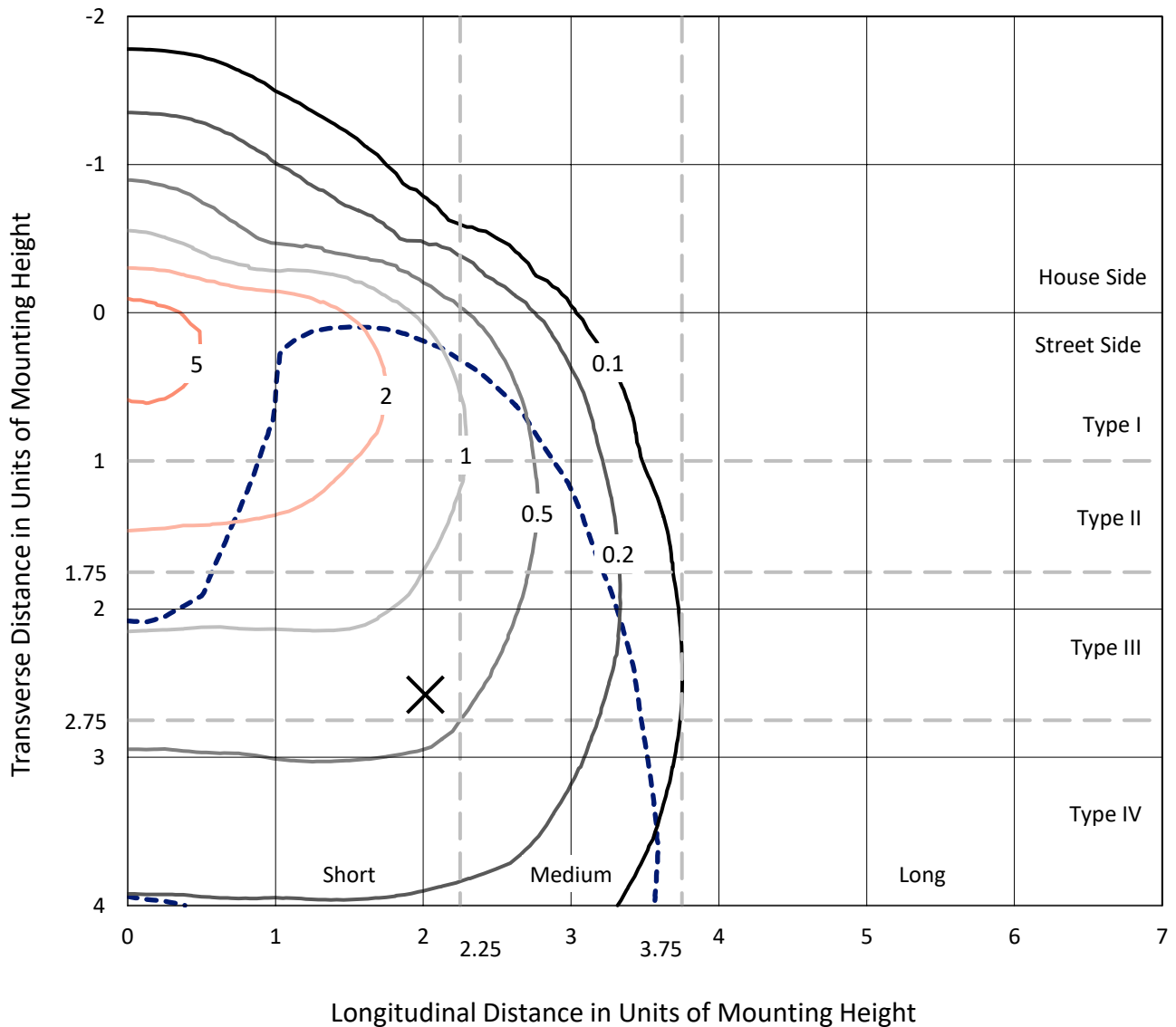
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

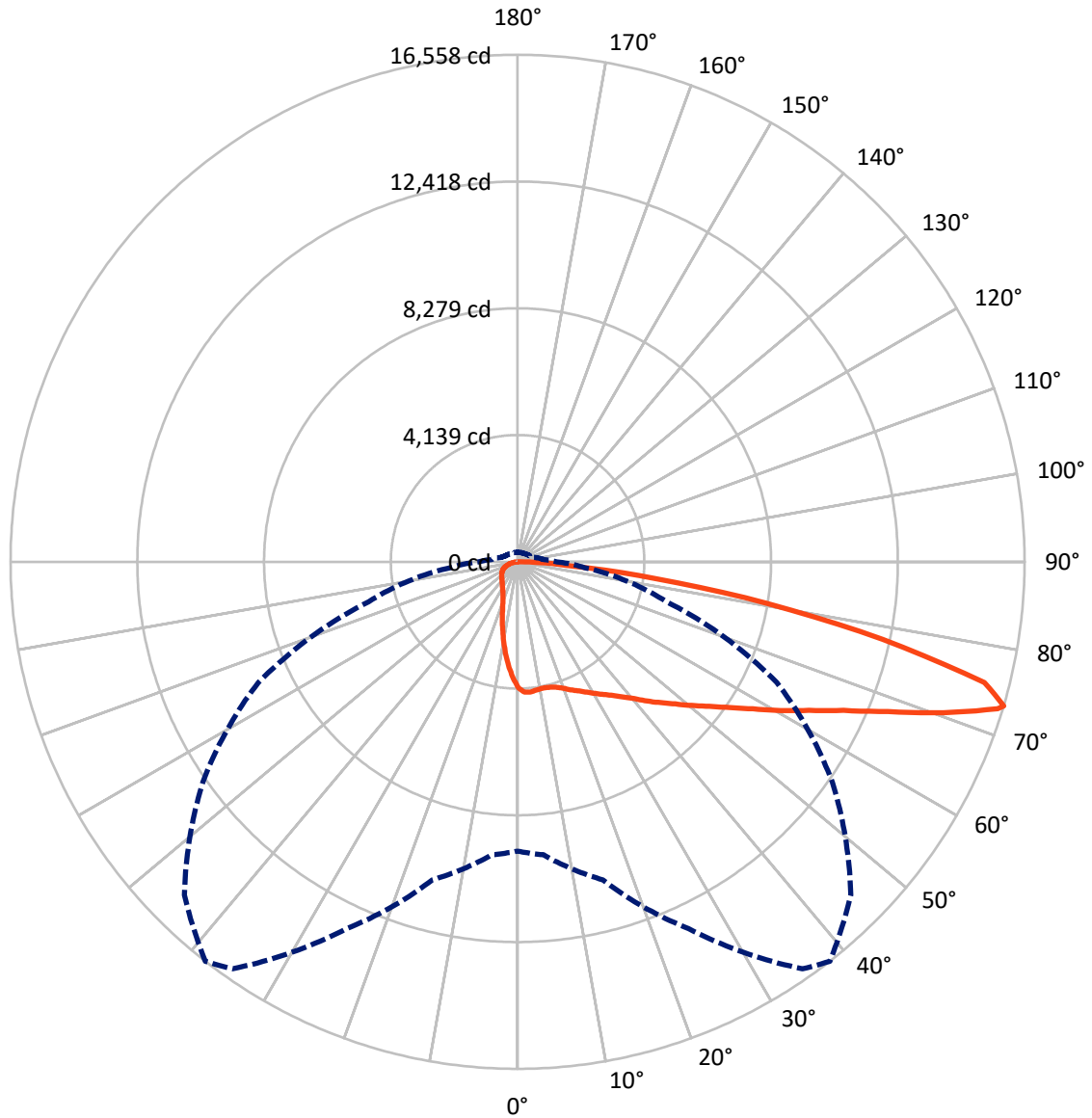
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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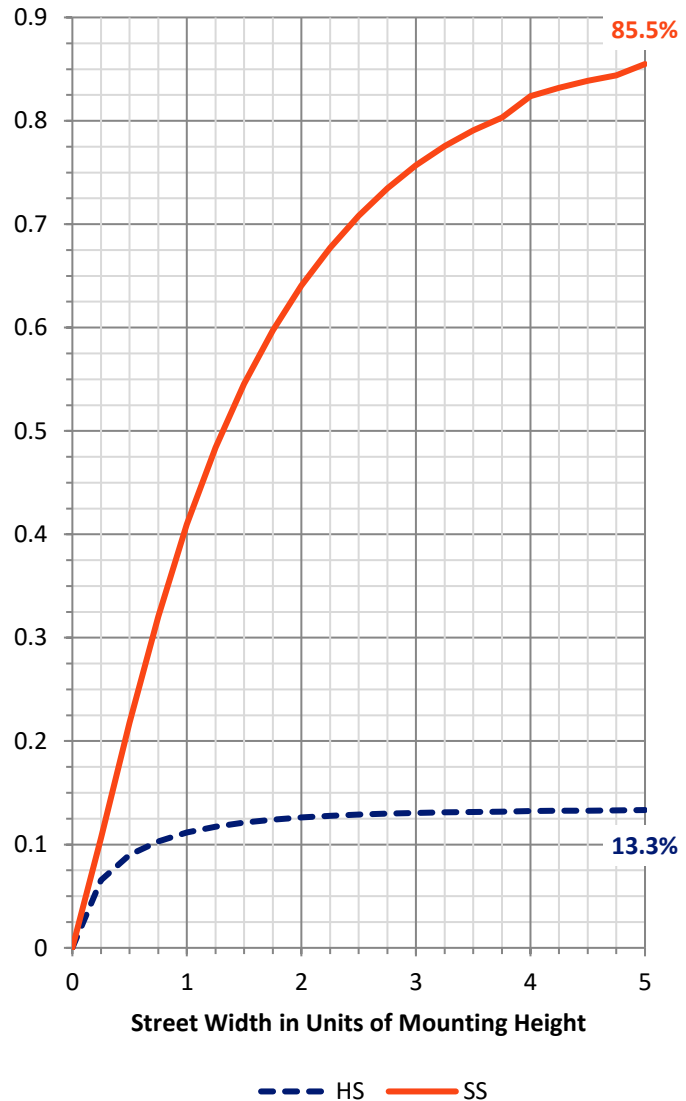
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3153.5	0.0	3153.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20304.6	0.0	20304.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	23458.0	0.0	23458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	1.5
10°-20°	922.5	3.9
20°-30°	1436.5	6.1
30°-40°	2107.0	9.0
40°-50°	3125.5	13.3
50°-60°	4428.1	18.9
60°-70°	5617.2	23.9
70°-80°	4675.9	19.9
80°-90°	785.6	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°	23458.0	100.0
0°-180°	23458.0	100.0

Coefficient of Utilization



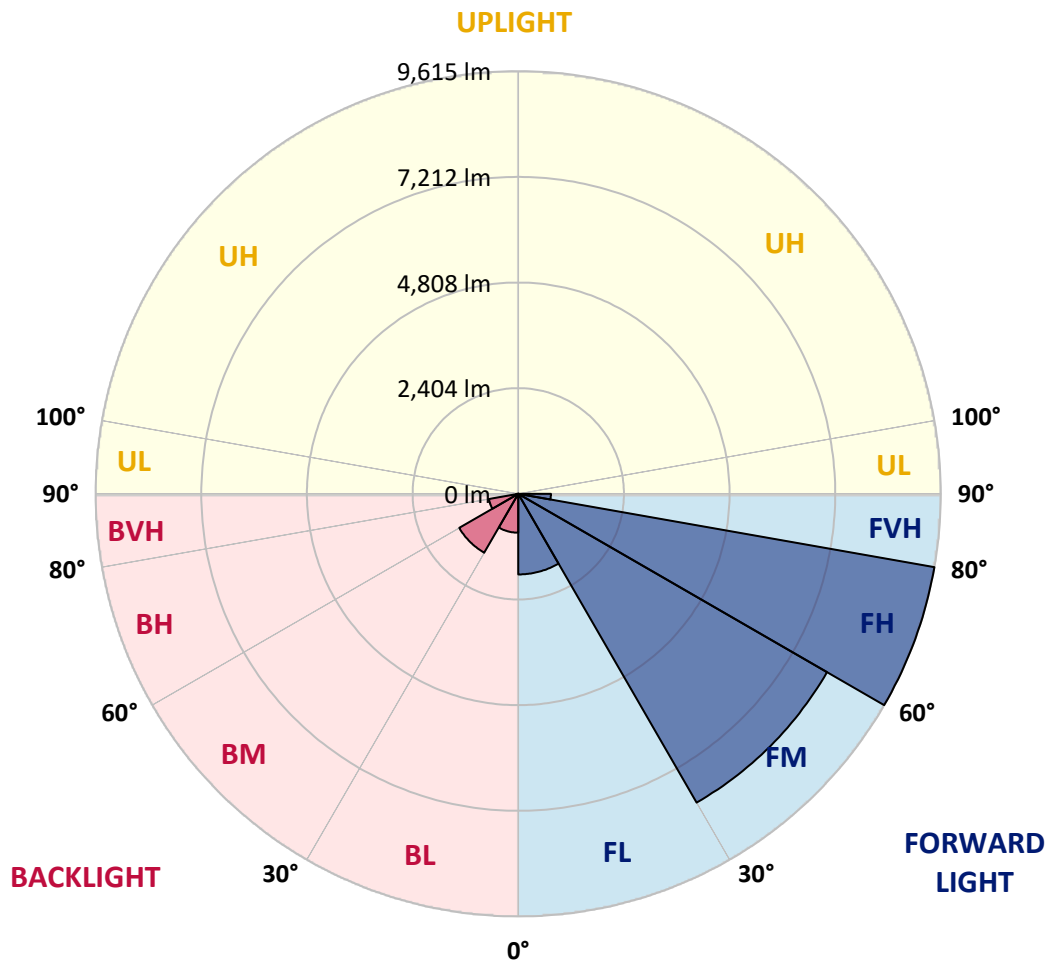
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.8	7.8			
FM (30°-60°)	8112.4	34.6			
FH (60°-80°)	9615.3	41.0			G4/12000
FVH (80°-90°)	743.0	3.2			G4/750
BL (0°-30°)	884.9	3.8	B2/1000		
BM (30°-60°)	1548.2	6.6	B2/2500		
BH (60°-80°)	677.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	42.6	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°	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2
2.5°	4286.7	4307.9	4297.3	4282.8	4273.5	4264.2	4251.0	4212.6	4182.1	4149.0	4097.4
5°	4318.5	4331.8	4322.6	4304.0	4282.8	4273.5	4248.3	4198.0	4149.0	4093.3	4016.5
7.5°	4300.0	4305.3	4294.7	4272.2	4253.6	4236.5	4207.3	4151.7	4092.1	4024.4	3923.8
10°	4233.8	4253.6	4253.6	4235.1	4216.5	4207.3	4178.2	4125.2	4070.9	3994.0	3874.7
12.5°	4179.4	4200.6	4217.9	4212.6	4211.2	4211.2	4188.8	4149.0	4085.4	4012.6	3870.8
15°	4142.3	4167.6	4204.7	4225.9	4239.1	4243.0	4233.8	4199.4	4134.4	4049.7	3886.7
17.5°	4134.4	4164.9	4232.4	4278.8	4313.2	4312.0	4309.3	4261.6	4190.0	4102.7	3906.6
20°	4170.2	4210.0	4304.0	4376.8	4427.2	4417.9	4403.3	4341.1	4257.6	4159.6	3925.1
22.5°	4277.5	4318.5	4421.9	4501.4	4550.4	4550.4	4506.7	4424.5	4335.8	4225.9	3950.3
25°	4431.1	4476.2	4586.1	4667.0	4689.5	4672.3	4628.5	4529.2	4427.2	4321.2	4003.2
27.5°	4619.3	4673.6	4775.6	4843.2	4836.5	4823.3	4778.2	4651.1	4549.1	4452.3	4093.3
30°	4853.7	4893.4	4999.5	5015.4	4991.5	4988.9	4925.3	4798.1	4702.7	4628.5	4221.8
32.5°	5074.9	5110.8	5195.5	5202.2	5159.8	5165.1	5105.5	4988.9	4934.6	4908.1	4437.8
35°	5309.4	5328.0	5400.8	5392.9	5365.1	5361.1	5337.2	5226.0	5243.2	5290.9	4743.8
37.5°	5505.5	5542.6	5583.7	5590.3	5588.9	5602.2	5618.1	5565.1	5664.5	5814.2	5145.2
40°	5685.7	5717.5	5778.4	5799.6	5851.3	5877.7	5932.1	5933.3	6162.6	6408.9	5639.3
42.5°	5807.5	5861.9	5975.8	6014.2	6140.1	6219.5	6300.4	6386.5	6718.9	7035.6	6222.1
45°	5913.5	5985.1	6174.5	6293.7	6464.6	6561.3	6732.2	6912.3	7390.5	7805.2	6814.3
47.5°	6073.8	6137.4	6354.6	6565.3	6823.6	6934.9	7190.6	7459.4	8084.7	8539.1	7381.3
50°	6296.3	6334.7	6556.0	6899.1	7229.0	7372.0	7709.8	8098.0	8826.5	9263.7	7879.4
52.5°	6581.2	6597.1	6773.2	7230.2	7664.8	7842.3	8290.1	8743.1	9475.6	9892.9	8274.2
55°	6917.6	6891.2	7028.9	7581.3	8162.8	8394.7	8875.6	9396.2	10205.5	10401.7	8561.6
57.5°	7250.2	7209.1	7319.1	8007.9	8777.5	9057.1	9617.4	10069.1	10857.3	10877.2	8763.0
60°	7602.6	7572.0	7703.2	8508.6	9531.3	9862.5	10380.5	10767.2	11487.9	11208.3	8794.8
62.5°	7964.2	7915.2	8101.9	9071.6	10380.5	10681.1	11183.2	11509.1	12106.5	11331.5	8488.7
65°	8315.2	8292.7	8581.5	9740.6	11347.4	11689.2	12176.8	12397.9	12602.0	11146.1	7729.7
67.5°	8688.8	8733.8	9194.8	10633.4	12608.6	13037.8	13563.7	13355.8	12743.8	10267.9	6509.6
70°	9258.4	9287.6	10000.2	11803.2	14234.0	14752.0	15006.3	13696.2	12060.2	8600.0	4893.4
72.5°	9503.5	9632.0	10719.6	13031.2	16080.7	16397.2	15491.1	12937.1	10046.6	5842.0	2571.3
73°	9449.1	9602.8	10752.7	13218.0	16225.1	16557.5	15387.9	12546.4	9339.2	5031.3	2204.3
75°	8772.2	8961.7	10322.2	13061.7	15944.2	15745.5	13726.6	10693.1	6310.9	2287.8	1004.2
77.5°	6921.6	6975.9	8178.7	10547.3	12555.6	12187.4	10273.2	6683.2	2577.9	850.5	569.6
80°	3472.1	3672.1	4610.0	6042.0	8396.0	8275.4	6484.4	3160.7	1074.4	499.4	377.5
82.5°	1670.5	1812.2	2245.4	2946.2	4639.1	4529.2	3211.1	1727.4	682.2	291.4	222.5
85°	1075.6	1181.6	1429.4	1405.5	1907.6	1821.4	1442.7	1307.5	404.0	152.3	155.0
87.5°	710.1	777.6	932.6	745.8	694.2	627.9	637.2	736.5	79.5	58.3	21.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2	4121.2
2.5°	4076.2	4058.9	4002.0	3946.3	3893.3	3842.9	3809.9	3766.2	3737.0	3745.0	3756.9
5°	3974.1	3935.7	3835.0	3737.0	3644.3	3534.3	3445.6	3374.0	3319.8	3299.8	3295.9
7.5°	3866.8	3801.9	3657.5	3489.3	3331.6	3195.2	3037.5	2959.4	2868.0	2836.2	2825.6
10°	3801.9	3714.5	3511.8	3277.3	3040.2	2813.6	2642.8	2503.7	2377.8	2354.0	2342.1
12.5°	3783.4	3668.1	3395.2	3093.2	2777.9	2499.7	2246.7	2063.9	1942.0	1914.2	1873.2
15°	3772.8	3629.7	3286.6	2907.8	2507.7	2168.5	1902.3	1689.0	1577.7	1503.5	1504.9
17.5°	3763.5	3586.0	3164.8	2705.1	2274.6	1883.8	1589.7	1397.6	1295.6	1255.9	1251.8
20°	3750.3	3534.3	3024.3	2491.8	2008.2	1624.1	1357.8	1214.7	1145.9	1112.7	1111.5
22.5°	3745.0	3484.0	2886.6	2274.6	1772.5	1424.1	1204.1	1103.5	1059.7	1037.3	1037.3
25°	3758.2	3448.2	2742.2	2067.9	1563.2	1253.2	1098.2	1029.3	1004.2	992.2	988.3
27.5°	3799.3	3432.3	2599.1	1861.2	1371.1	1136.6	1026.7	978.9	960.4	951.2	952.4
30°	3877.4	3431.0	2458.7	1657.2	1228.0	1047.9	969.7	936.5	922.0	916.7	915.3
32.5°	4003.2	3460.1	2320.9	1489.0	1107.4	973.6	916.7	892.9	886.2	882.3	880.9
35°	4216.5	3542.3	2184.4	1335.3	1014.8	907.4	866.4	854.5	845.2	849.2	850.5
37.5°	4504.0	3684.0	2054.6	1214.7	944.5	858.4	824.0	813.3	808.0	812.1	816.0
40°	4889.5	3888.0	1946.0	1118.0	894.2	817.4	786.8	777.6	772.3	778.9	780.3
42.5°	5314.7	4123.8	1855.9	1042.6	853.1	782.9	753.8	743.2	739.2	743.2	744.5
45°	5751.9	4398.0	1809.6	988.3	818.6	757.7	727.3	715.4	706.1	703.4	707.4
47.5°	6182.4	4636.5	1808.2	955.1	790.9	735.2	702.1	688.9	676.9	670.3	669.0
50°	6533.5	4825.9	1840.0	940.6	767.0	710.1	676.9	663.7	647.8	634.5	637.2
52.5°	6798.4	4949.1	1854.6	933.9	753.8	683.6	650.4	638.5	620.0	602.7	602.7
55°	6969.3	4978.3	1818.8	927.3	743.2	655.7	620.0	609.4	590.8	573.6	573.6
57.5°	7027.6	4888.1	1690.3	911.4	732.6	631.9	589.5	580.2	565.7	548.4	545.8
60°	6892.5	4583.5	1465.1	863.7	711.4	606.7	556.4	552.4	547.1	532.5	531.2
62.5°	6371.8	3937.1	1220.0	801.5	675.6	580.2	525.9	532.5	536.5	528.6	527.2
65°	5505.5	3196.6	1042.6	715.4	627.9	543.1	492.8	510.0	520.6	520.6	518.0
67.5°	4465.6	2454.7	878.3	641.2	568.3	492.8	455.7	468.9	476.9	474.2	480.9
70°	3174.0	1662.5	715.4	556.4	492.8	435.8	408.0	408.0	402.7	400.1	400.1
72.5°	1539.3	949.8	580.2	465.0	419.9	372.2	349.7	340.4	329.8	328.5	321.9
73°	1286.3	851.8	553.7	447.7	402.7	363.0	337.8	323.2	316.6	311.3	310.0
75°	782.9	646.5	462.3	377.5	343.1	312.6	290.1	276.9	270.2	266.3	264.9
77.5°	515.3	482.2	359.0	288.8	262.3	243.7	234.5	221.3	217.2	211.9	211.9
80°	384.2	368.3	257.0	204.0	188.1	172.2	169.5	166.9	156.3	149.7	147.0
82.5°	247.8	262.3	174.8	136.4	119.3	106.0	107.3	111.3	100.7	91.4	88.7
85°	176.2	189.4	106.0	62.2	50.4	43.7	49.0	43.7	45.1	35.7	29.2
87.5°	29.2	50.4	18.6	8.0	4.0	2.7	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)