

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: P652270

Luminaire Tested: **GALN-SA3B-840-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-840-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14425.7 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

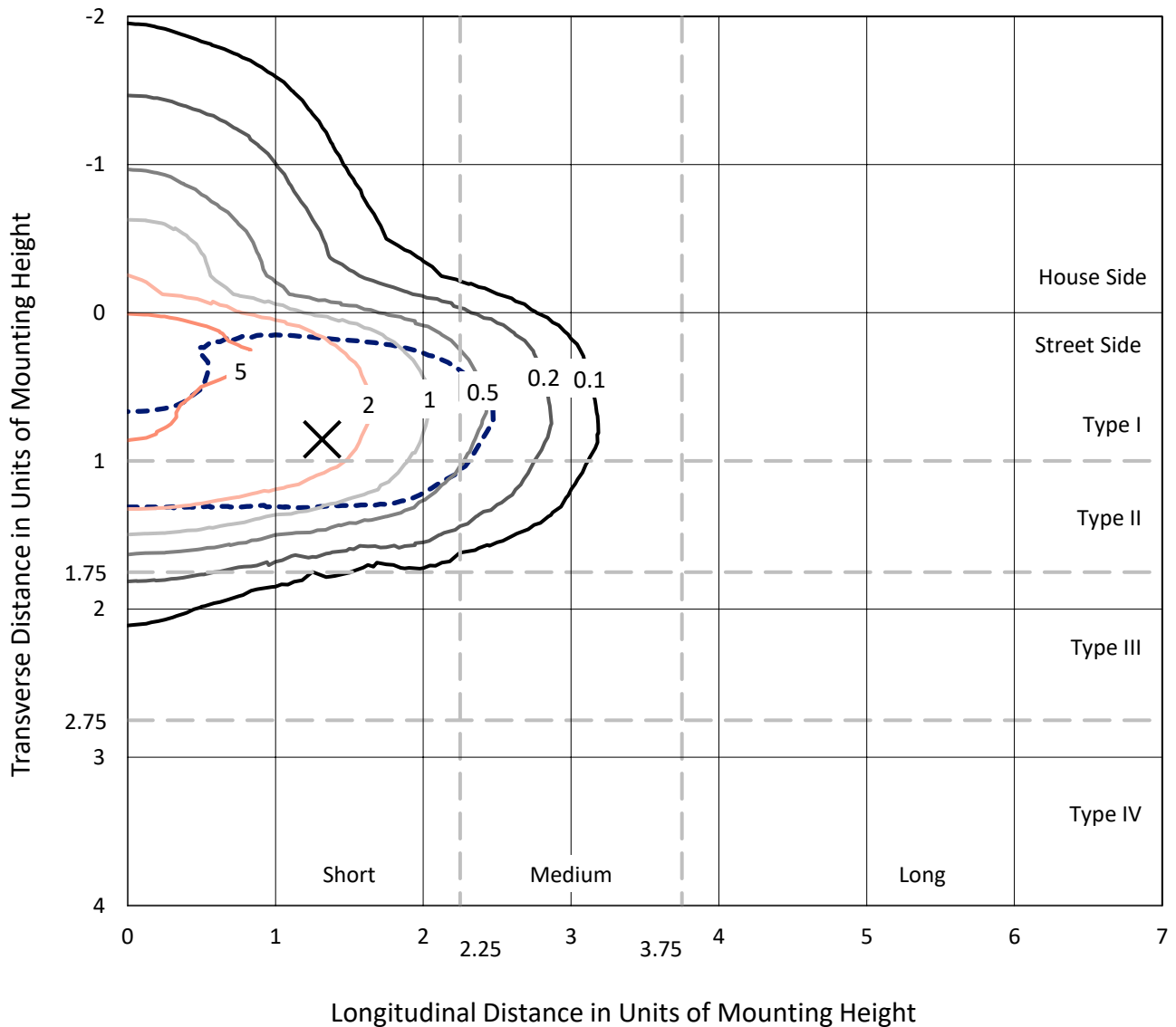
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

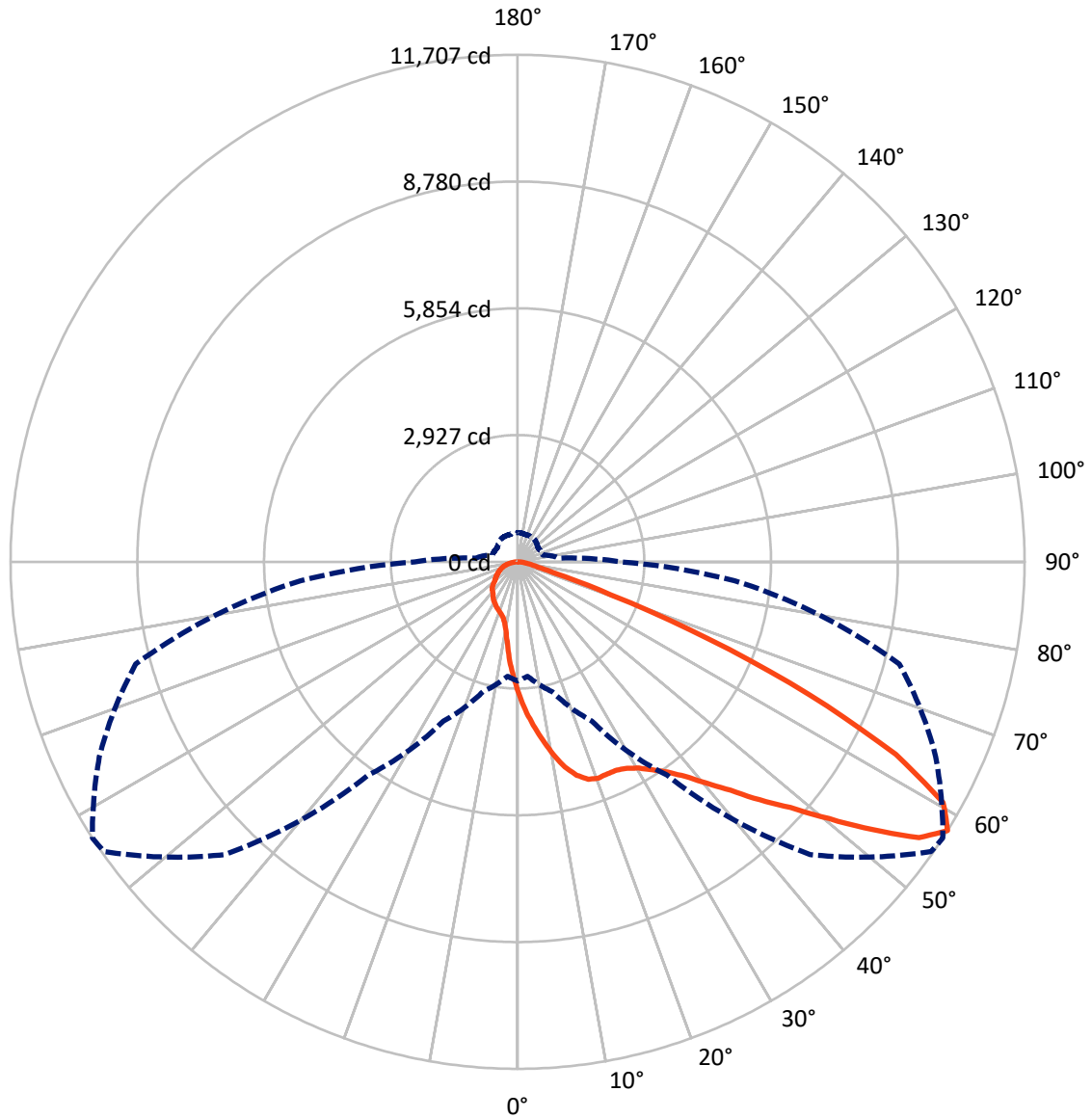
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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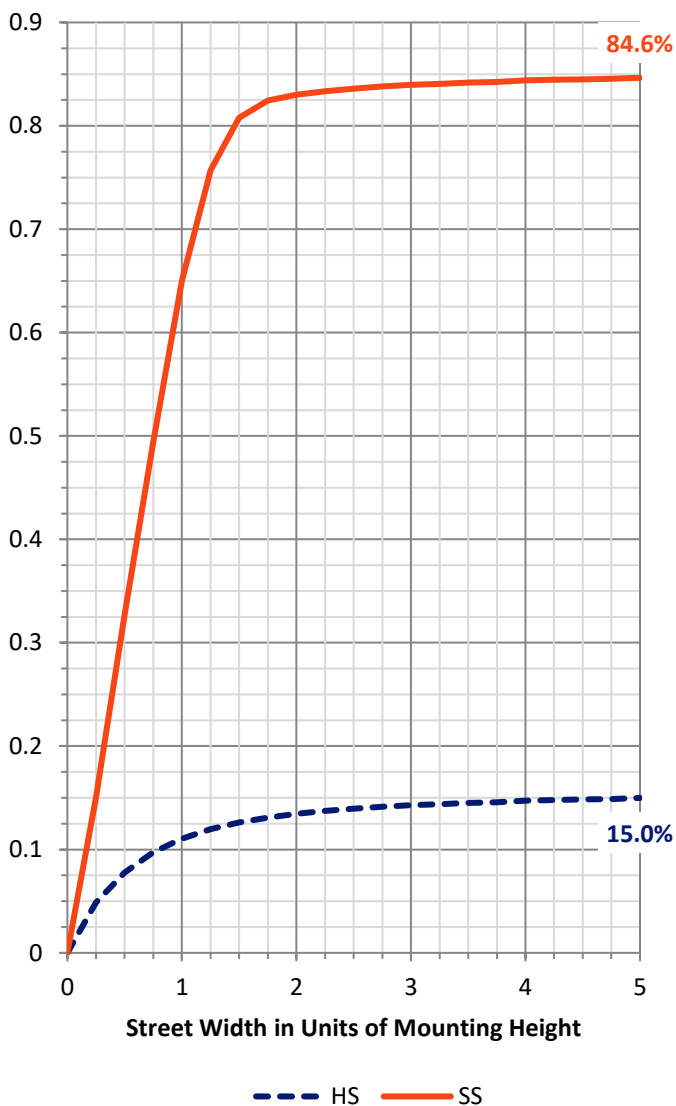
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2193.7	0.0	2193.7
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	12231.9	0.0	12231.9
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	14425.7	0.0	14425.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.3	2.0
10°-20°	858.4	6.0
20°-30°	1425.4	9.9
30°-40°	2147.1	14.9
40°-50°	3223.6	22.3
50°-60°	3613.3	25.0
60°-70°	2114.7	14.7
70°-80°	625.5	4.3
80°-90°	126.4	0.9
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°	14425.7	100.0
0°-180°	14425.7	100.0

**Coefficient of Utilization**



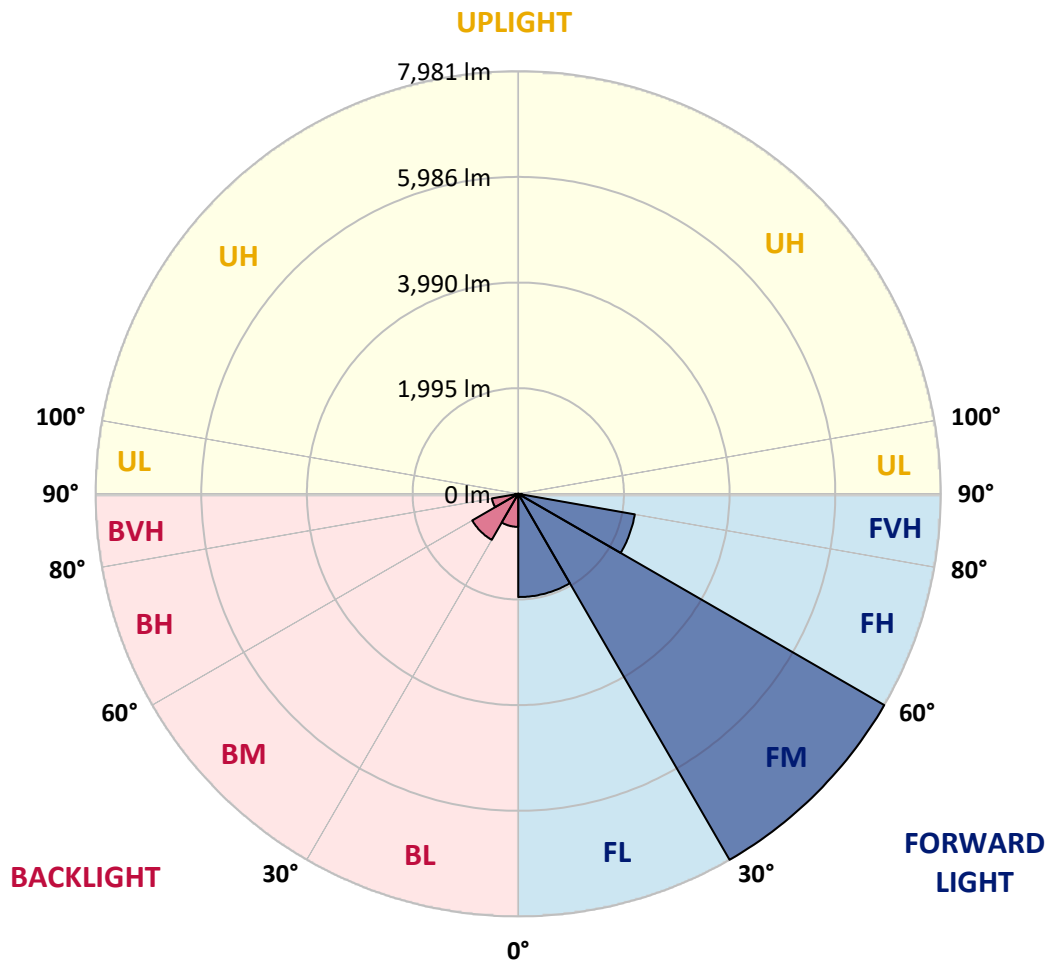
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.0	13.5			
FM (30°-60°)	7980.9	55.3			
FH (60°-80°)	2235.4	15.5			G2/5000
FVH (80°-90°)	65.6	0.5			G1/100
BL (0°-30°)	625.1	4.3	B2/1000		
BM (30°-60°)	1003.1	7.0	B2/2500		
BH (60°-80°)	504.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	60.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6
2.5°	3765.8	3724.8	3692.4	3664.0	3626.8	3526.6	3426.3	3424.7	3344.9	3221.8	3095.4
5°	4379.4	4324.1	4331.2	4242.8	4154.4	4009.0	3796.6	3785.6	3615.8	3385.2	3150.7
7.5°	4779.0	4779.7	4757.6	4707.1	4611.5	4446.5	4205.7	4151.2	3915.1	3565.3	3213.9
10°	4758.4	4779.7	4816.8	4860.3	4889.5	4808.2	4588.7	4522.3	4215.2	3783.2	3284.1
12.5°	4485.2	4518.4	4571.3	4680.2	4856.4	4990.6	4915.6	4861.8	4562.6	4000.4	3361.6
15°	4314.7	4334.3	4363.6	4437.0	4626.5	4947.9	5142.2	5113.8	4890.3	4246.0	3448.4
17.5°	4262.5	4282.3	4291.7	4336.8	4471.8	4801.1	5231.4	5282.0	5180.9	4471.8	3536.1
20°	4314.7	4324.1	4324.1	4351.0	4456.8	4715.0	5227.5	5329.3	5419.3	4742.7	3618.2
22.5°	4451.2	4455.2	4449.6	4459.2	4538.1	4738.7	5190.3	5316.7	5612.0	4972.4	3682.2
25°	4673.1	4679.5	4643.2	4621.0	4678.7	4842.9	5210.9	5327.0	5762.9	5191.9	3724.8
27.5°	4925.1	4933.0	4888.7	4837.3	4864.3	4971.7	5291.4	5395.7	5875.7	5408.3	3751.6
30°	5233.8	5236.9	5162.7	5101.1	5083.8	5163.5	5428.8	5526.0	6016.3	5663.4	3791.9
32.5°	5549.7	5573.3	5477.8	5390.9	5361.7	5386.2	5631.8	5725.7	6183.7	5937.4	3856.7
35°	5979.2	5983.1	5868.7	5762.9	5666.5	5698.1	5891.5	5959.5	6415.1	6254.0	3948.2
37.5°	6515.4	6551.7	6393.8	6196.4	6077.9	6032.2	6205.8	6280.1	6739.6	6642.6	4086.4
40°	7110.7	7124.2	6989.2	6866.0	6649.6	6517.0	6637.0	6717.6	7140.0	7106.0	4246.7
42.5°	7485.1	7514.3	7524.6	7511.9	7349.2	7126.5	7172.4	7210.3	7613.8	7541.2	4411.0
45°	7611.4	7654.9	7801.7	8112.9	8130.2	7910.7	7804.1	7840.4	8130.2	7980.2	4568.1
47.5°	7402.1	7476.4	7747.2	8385.3	8863.0	8879.6	8558.2	8478.5	8600.8	8344.2	4681.8
50°	6861.2	6877.0	7291.6	8215.5	9206.5	9805.8	9473.4	9324.9	9047.8	8613.4	4760.0
52.5°	6024.3	6042.4	6389.8	7426.6	8994.9	10453.4	10544.2	10278.9	9501.9	8822.8	4811.4
55°	4471.8	4576.8	4959.0	5961.1	7992.0	10392.6	11395.4	11244.6	10050.6	8988.5	4891.8
57.5°	2749.6	2653.2	3106.5	4055.6	6010.8	9557.1	11658.4	11707.3	10654.7	9127.5	5026.9
60°	1265.0	1284.0	1471.1	2091.8	3664.0	7476.4	10980.9	11290.4	10988.8	9122.8	5060.9
62.5°	871.8	854.4	807.0	918.4	1670.9	4728.4	9275.2	9799.5	10319.2	8839.3	4925.8
65°	779.4	762.0	670.4	639.6	767.5	2061.0	6742.8	7404.5	8688.5	8123.9	4589.4
67.5°	728.1	704.3	609.6	549.6	548.0	820.5	3975.9	4772.6	6444.3	6868.4	3976.7
70°	674.4	655.4	561.5	495.1	466.7	515.6	1747.5	2287.6	4184.3	4949.5	3097.8
72.5°	620.7	598.5	514.0	443.0	405.9	386.1	669.6	871.0	2364.2	2967.5	1899.1
75°	542.5	531.4	459.6	401.2	360.9	311.9	424.8	484.8	1130.8	1362.9	953.1
77.5°	474.6	462.7	408.2	350.6	321.3	253.5	301.7	329.3	476.9	552.8	430.3
80°	347.4	359.3	344.3	309.6	286.6	199.0	202.9	225.8	283.5	313.5	263.0
82.5°	220.3	242.5	265.3	238.5	217.1	157.1	140.5	149.3	193.4	205.3	116.9
85°	92.4	93.9	154.0	145.3	124.0	93.2	84.5	89.2	103.4	108.2	54.5
87.5°	35.6	34.7	54.5	50.5	38.7	26.8	26.8	30.0	41.0	37.9	17.4
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°	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6
2.5°	3041.0	2984.9	2873.5	2735.4	2634.3	2520.6	2420.2	2348.4	2321.6	2309.0	2285.2
5°	3038.5	2928.0	2697.4	2455.8	2261.5	2062.6	1894.4	1785.4	1775.9	1703.3	1696.1
7.5°	3039.4	2870.3	2503.2	2147.8	1851.7	1648.0	1509.0	1472.7	1429.3	1418.2	1423.7
10°	3041.7	2796.9	2294.8	1843.1	1556.4	1423.0	1370.8	1356.6	1358.2	1362.9	1363.7
12.5°	3044.8	2725.8	2078.4	1611.7	1390.6	1335.3	1329.8	1342.4	1355.9	1366.1	1368.5
15°	3048.8	2644.5	1867.5	1425.3	1307.7	1302.9	1321.0	1342.4	1361.3	1376.4	1378.7
17.5°	3044.1	2549.7	1690.7	1310.8	1261.8	1284.8	1314.7	1341.6	1359.0	1373.2	1374.8
20°	3033.1	2443.9	1520.1	1230.3	1233.4	1270.6	1302.9	1328.2	1347.1	1354.3	1359.8
22.5°	2990.4	2317.6	1371.6	1167.9	1199.4	1250.8	1289.5	1304.5	1283.2	1268.1	1272.1
25°	2917.8	2153.4	1233.4	1117.4	1168.7	1223.2	1262.7	1226.3	1208.9	1202.6	1205.8
27.5°	2826.9	1973.3	1129.2	1064.5	1129.2	1192.4	1181.4	1175.0	1167.1	1156.8	1159.2
30°	2729.0	1797.2	1040.7	1023.4	1086.6	1122.9	1127.6	1137.9	1129.2	1113.4	1119.7
32.5°	2638.2	1631.4	973.6	988.7	1056.5	1051.0	1086.6	1098.4	1058.1	1005.2	1007.6
35°	2560.8	1477.5	923.1	954.7	1005.2	1007.6	1043.1	1002.1	958.7	933.3	934.9
37.5°	2502.4	1357.4	889.9	925.4	939.6	969.7	950.8	929.4	923.9	906.5	907.3
40°	2467.7	1252.4	868.6	902.6	900.2	920.7	859.9	881.3	889.1	883.6	884.4
42.5°	2432.9	1178.2	846.5	871.0	870.2	829.9	816.5	834.7	855.2	857.6	856.0
45°	2405.3	1120.5	823.6	822.8	838.6	775.4	771.4	782.6	811.7	825.9	825.2
47.5°	2374.5	1072.4	788.9	766.7	771.4	741.5	735.2	739.9	775.4	798.4	804.7
50°	2335.8	1024.2	745.5	715.4	695.7	709.9	711.5	712.2	747.8	773.9	779.4
52.5°	2305.0	987.8	695.7	673.6	649.8	681.5	693.3	694.9	716.2	737.6	741.5
55°	2323.2	967.3	646.7	630.9	609.6	652.3	675.2	678.3	683.1	698.9	701.2
57.5°	2377.6	972.0	607.2	586.7	571.0	617.5	656.2	658.6	655.4	674.4	677.5
60°	2394.2	969.7	578.0	537.7	528.3	580.4	628.6	633.3	632.5	660.2	665.7
62.5°	2324.7	939.6	548.8	496.7	490.4	542.5	589.9	608.8	612.8	652.3	659.3
65°	2161.3	878.1	510.2	453.3	453.3	502.2	552.8	578.8	589.9	642.8	650.7
67.5°	1945.7	805.4	470.6	416.1	414.5	463.6	513.3	540.1	557.5	629.3	634.1
70°	1614.8	707.5	421.7	375.8	375.8	420.1	465.1	497.5	522.8	604.1	604.1
72.5°	1106.3	588.3	362.5	330.1	330.8	371.9	417.7	454.1	484.1	553.5	555.1
75°	699.6	459.6	297.7	281.1	284.3	322.9	370.4	408.2	468.3	547.2	549.6
77.5°	371.9	322.9	236.9	233.0	236.9	272.4	325.3	377.4	469.9	474.6	466.7
80°	240.9	229.0	187.1	179.2	180.8	219.5	289.8	358.5	377.4	382.2	364.8
82.5°	131.1	145.3	132.6	124.8	124.8	171.3	247.2	285.1	270.9	225.1	214.8
85°	56.1	67.9	68.7	60.0	57.6	105.8	165.8	155.6	144.5	138.2	136.6
87.5°	15.8	22.1	22.1	16.6	12.6	29.2	33.1	9.5	0.0	0.8	1.6
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)