

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: P650893

Luminaire Tested: **GALN-SA5C-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26717.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

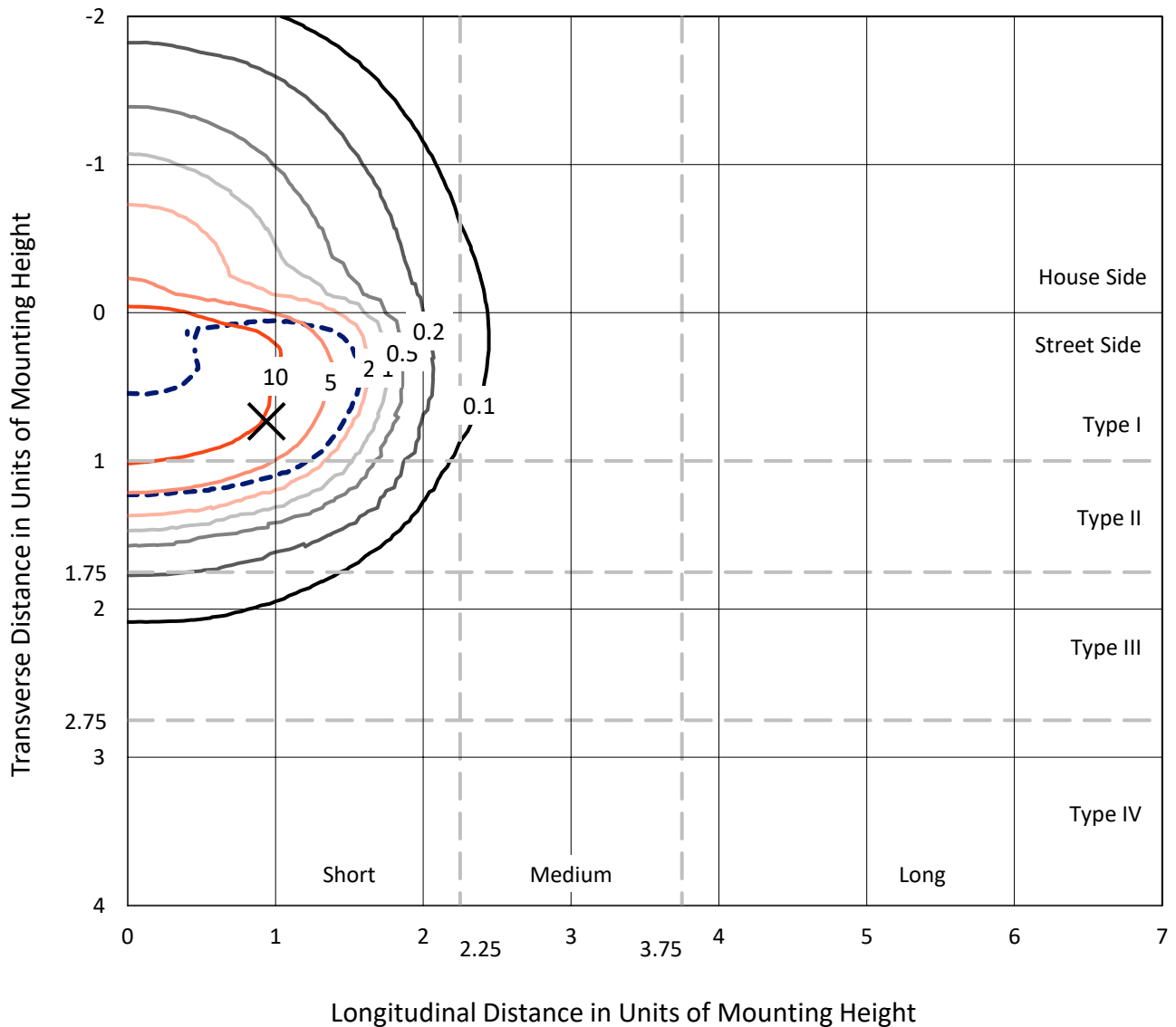
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650893
 CATALOG NUMBER: GALN-SA5C-840-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

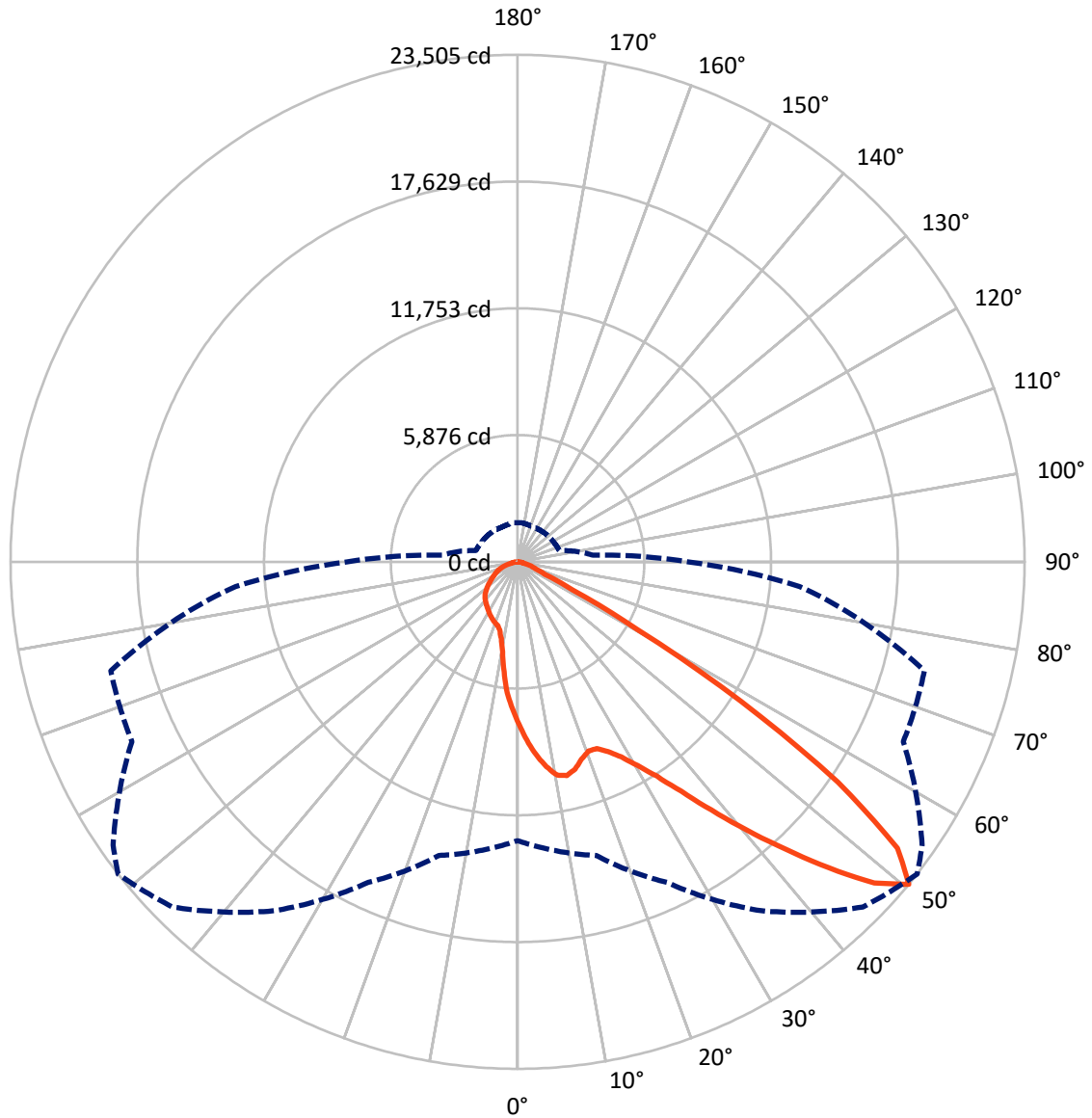
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

REPORT NUMBER: P650893
CATALOG NUMBER: GALN-SA5C-840-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P650893
 CATALOG NUMBER: GALN-SA5C-840-U-AFL-GRSWH

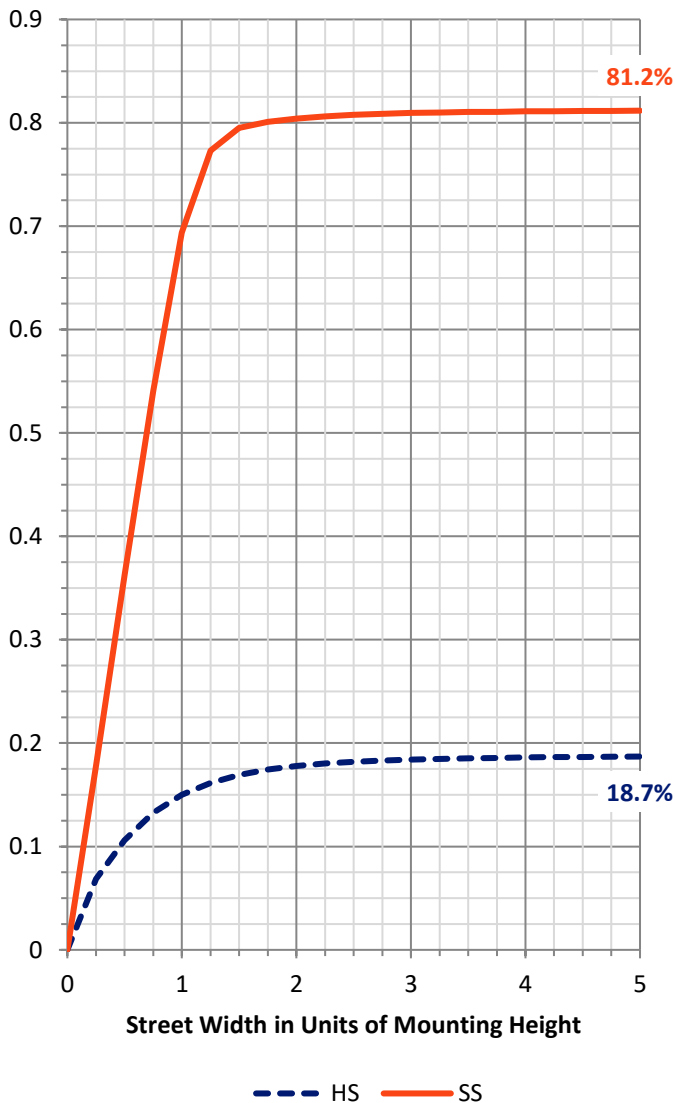
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5022.3	0.0	5022.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21695.4	0.0	21695.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	26717.7	0.0	26717.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.2	2.6
10°-20°	1860.5	7.0
20°-30°	3134.0	11.7
30°-40°	5259.0	19.7
40°-50°	8045.0	30.1
50°-60°	5865.5	22.0
60°-70°	1305.4	4.9
70°-80°	470.8	1.8
80°-90°	83.3	0.3
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°	26717.7	100.0
0°-180°	26717.7	100.0

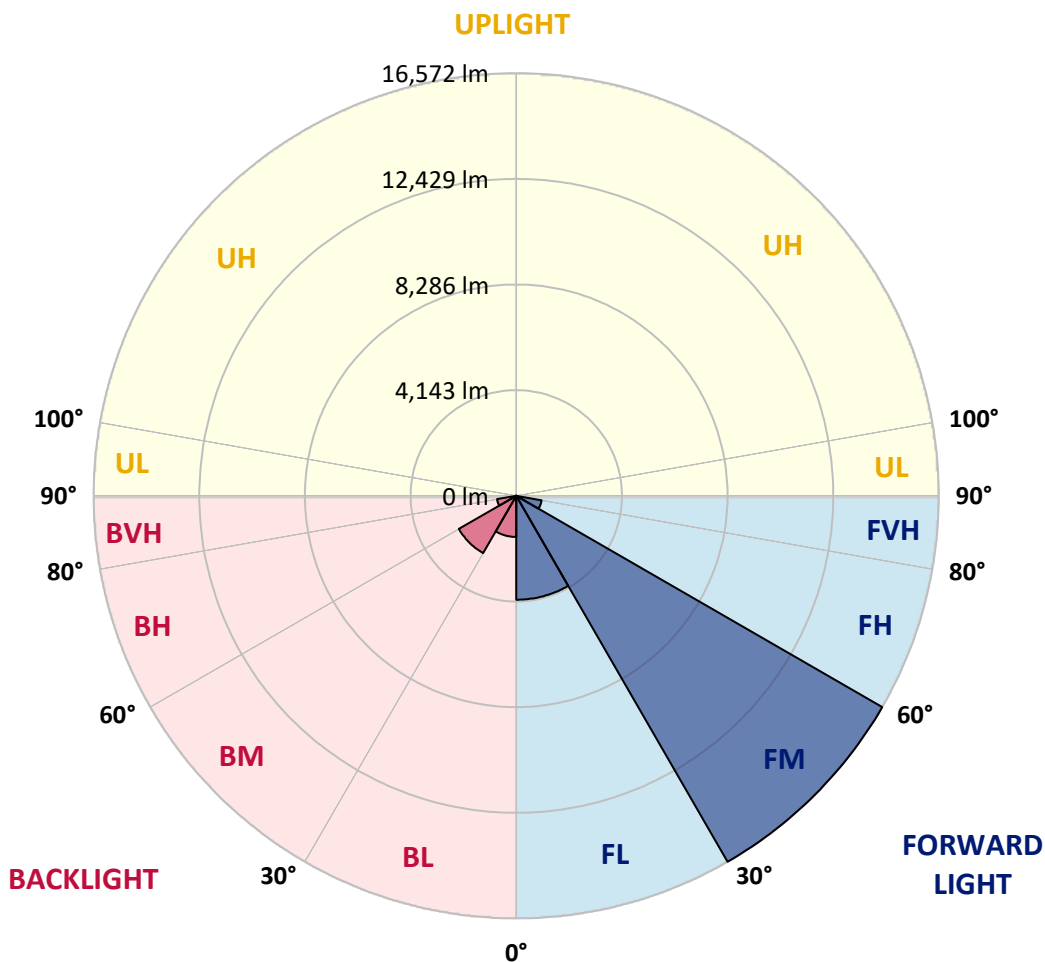


REPORT NUMBER: P650893
 CATALOG NUMBER: GALN-SA5C-840-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4075.4	15.3			
FM (30°-60°)	16571.7	62.0			
FH (60°-80°)	1011.0	3.8			G1/1800
FVH (80°-90°)	37.3	0.1			G1/100
BL (0°-30°)	1613.3	6.0	B3/2500		
BM (30°-60°)	2597.9	9.7	B3/5000		
BH (60°-80°)	765.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	46.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P650893

CATALOG NUMBER: GALN-SA5C-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3
2.5°	8867.5	8696.9	8716.2	8593.8	8461.8	8423.2	8288.0	8159.1	8062.6	7856.5	7666.6
5°	9691.9	9640.3	9563.0	9466.5	9366.6	9121.9	8983.5	8822.4	8468.3	8149.5	7833.9
7.5°	9810.9	9801.3	9843.1	9843.1	9878.6	9785.2	9588.7	9476.1	9099.4	8581.0	7995.0
10°	8973.8	9002.7	9205.6	9469.7	9836.8	10091.1	10058.9	10029.9	9617.8	8909.4	8184.9
12.5°	8307.3	8242.9	8362.0	8587.4	9138.0	9753.0	10168.4	10171.6	10065.3	9434.3	8323.4
15°	7930.5	7975.6	8007.8	8114.1	8529.4	9241.1	9972.0	10187.7	10654.5	9804.5	8542.3
17.5°	8172.1	8020.7	8014.2	8040.0	8252.6	8787.0	9608.1	9978.4	10976.6	10281.1	8812.8
20°	8487.6	8484.3	8394.2	8362.0	8358.8	8835.3	9369.8	9872.2	11147.2	10899.3	9086.5
22.5°	9041.4	9041.4	8893.3	8822.4	8671.1	9060.8	9402.0	9743.3	11430.5	11324.3	9218.5
25°	9968.7	9817.4	9563.0	9389.2	9302.2	9440.6	9743.3	10049.2	11678.5	11775.1	9492.2
27.5°	10825.2	10586.9	10461.4	10161.9	10046.0	9965.5	10242.5	10551.5	11968.3	12477.0	9640.3
30°	11797.6	11755.8	11530.4	11144.0	10857.4	10709.3	10963.7	11269.6	12499.5	13195.0	9981.6
32.5°	13536.3	13156.4	12850.5	12377.2	11910.3	11594.8	11845.9	12048.8	13381.8	13945.3	10355.1
35°	15413.5	15291.1	14763.1	13909.9	13195.0	12911.7	13059.8	13211.1	14408.9	15091.6	10983.0
37.5°	17258.5	17091.1	16656.4	15938.4	15069.0	14492.6	14598.9	14776.0	15561.6	16637.1	11749.4
40°	18585.1	18379.0	18160.0	18053.8	17190.9	16402.0	16340.9	16386.0	17120.1	18086.0	12599.4
42.5°	18681.7	18936.0	19003.7	19432.0	19229.0	18581.9	18205.1	18214.8	18607.6	19518.9	13459.1
45°	18478.9	18243.8	18742.9	19911.7	20581.5	20884.1	20249.8	20169.3	19528.5	20349.6	13887.3
47.5°	16350.6	16414.9	17258.5	19106.8	21041.9	22394.2	22246.1	21978.9	20021.2	20320.7	13819.7
50°	12924.6	13314.2	14096.6	16398.8	19753.9	22632.5	23505.1	22886.9	19728.2	19522.1	13130.6
52.5°	8606.7	8767.7	9282.9	12254.8	15883.6	20230.5	22056.2	22197.8	19457.7	18475.7	12258.1
55°	3831.7	3818.7	4543.3	6401.1	9965.5	15394.3	18021.6	18884.6	18417.6	17409.9	11408.0
57.5°	1622.8	1677.5	1973.7	2765.9	4900.7	9289.3	12209.7	12966.5	14164.2	14296.2	8751.6
60°	1098.0	1104.4	1184.9	1384.5	2051.0	4362.9	6404.3	7312.3	8168.8	8110.9	4643.1
62.5°	863.0	885.5	946.6	1027.1	1217.1	1980.2	2865.7	3371.2	3426.0	2881.8	1761.3
65°	737.4	740.6	801.7	869.3	953.1	1152.7	1381.3	1407.1	1423.2	1371.7	1294.4
67.5°	608.5	615.0	663.3	740.6	817.9	882.2	946.6	978.8	1052.9	1197.8	1178.5
70°	483.0	492.7	534.5	598.9	669.8	708.4	788.9	817.9	885.5	998.2	1043.3
72.5°	367.1	370.3	405.7	450.8	515.2	553.8	621.4	653.6	698.7	795.3	837.1
75°	264.0	273.7	299.5	322.0	331.6	357.4	421.8	457.3	521.6	563.5	566.7
77.5°	138.4	144.9	151.3	151.3	183.5	231.9	273.7	293.0	338.1	370.3	354.1
80°	54.7	57.9	74.1	99.8	128.8	167.4	196.4	206.0	244.7	264.0	273.7
82.5°	32.2	35.4	48.3	70.8	93.4	119.2	141.7	151.3	177.1	199.7	206.0
85°	16.1	19.3	29.0	45.1	61.1	74.1	70.8	67.6	67.6	64.4	67.6
87.5°	6.5	6.5	9.7	9.7	9.7	12.9	16.1	16.1	16.1	19.3	19.3
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: P650893

CATALOG NUMBER: GALN-SA5C-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3	7531.3
2.5°	7540.9	7412.2	7293.0	7074.1	6835.8	6768.2	6491.3	6391.4	6320.6	6236.9	6211.1
5°	7579.6	7409.0	7025.8	6584.6	6233.7	5782.9	5486.7	5167.9	4936.1	4878.1	4862.0
7.5°	7660.1	7367.1	6707.0	6040.5	5322.4	4710.7	4243.8	3992.6	3770.5	3757.6	3735.0
10°	7750.2	7241.5	6359.2	5312.8	4395.2	3828.4	3548.3	3438.8	3384.1	3371.2	3364.8
12.5°	7824.3	7215.7	5969.7	4604.4	3738.2	3397.0	3313.3	3303.6	3326.2	3332.5	3345.4
15°	7856.5	7112.7	5499.6	3970.1	3329.4	3203.8	3239.2	3277.8	3293.9	3335.8	3303.6
17.5°	7917.7	6980.7	4919.9	3467.8	3100.8	3123.3	3184.4	3229.5	3255.3	3284.3	3242.4
20°	7949.9	6861.6	4375.8	3168.4	3020.3	3062.1	3145.8	3181.3	3213.5	3226.3	3178.1
22.5°	7920.9	6616.8	3896.0	2926.8	2943.0	2997.7	3071.8	3110.4	3091.1	3039.5	3010.6
25°	7843.6	6272.3	3397.0	2772.3	2833.5	2930.0	2988.1	2959.1	2923.7	2894.6	2885.0
27.5°	7840.4	5850.5	3036.3	2630.6	2740.1	2872.1	2852.8	2827.0	2843.2	2820.6	2794.8
30°	7856.5	5441.6	2740.1	2550.2	2672.5	2736.9	2759.4	2733.7	2753.0	2711.1	2724.0
32.5°	7772.8	5042.3	2546.9	2456.7	2592.0	2588.8	2662.9	2682.1	2637.0	2550.2	2563.0
35°	7808.2	4720.4	2382.7	2414.9	2501.8	2501.8	2559.8	2537.3	2418.1	2366.6	2379.5
37.5°	8052.9	4404.8	2302.2	2357.0	2414.9	2440.7	2421.3	2324.8	2295.8	2295.8	2302.2
40°	8284.8	4134.4	2253.9	2344.0	2334.4	2350.5	2208.8	2218.5	2218.5	2221.8	2205.6
42.5°	8490.8	3950.8	2215.3	2266.8	2282.9	2199.2	2112.3	2102.6	2125.1	2121.9	2109.0
45°	8564.8	3799.5	2160.5	2179.9	2192.7	2054.3	2012.4	1993.1	2018.8	2028.5	2041.4
47.5°	8281.5	3673.9	2099.4	2060.7	2035.0	1944.8	1890.1	1854.7	1886.9	1941.6	1954.5
50°	7917.7	3509.7	2002.8	1928.7	1874.0	1835.3	1796.7	1761.3	1783.8	1822.4	1812.8
52.5°	7379.9	3252.1	1880.4	1803.1	1709.8	1719.4	1684.0	1664.7	1677.5	1677.5	1667.9
55°	6613.6	2672.5	1674.3	1619.6	1542.3	1568.0	1574.5	1548.8	1523.0	1545.5	1526.2
57.5°	4514.2	1886.9	1494.0	1494.0	1416.7	1452.2	1449.0	1387.7	1326.6	1333.1	1320.1
60°	2611.3	1503.7	1378.1	1365.2	1284.7	1313.7	1320.1	1278.3	1184.9	1191.4	1178.5
62.5°	1484.4	1284.7	1204.2	1184.9	1168.8	1194.6	1194.6	1139.8	1059.3	1065.8	1052.9
65°	1262.2	1191.4	1075.5	1072.2	1065.8	1072.2	1046.5	988.5	917.7	888.7	891.9
67.5°	1146.3	1101.2	988.5	959.5	940.2	937.0	888.7	833.9	801.7	776.0	772.8
70°	1004.6	969.2	885.5	846.8	827.5	782.5	734.1	698.7	653.6	640.8	653.6
72.5°	795.3	792.1	759.9	718.0	676.2	640.8	598.9	550.6	508.7	499.0	476.5
75°	550.6	557.1	563.5	557.1	521.6	476.5	428.2	389.6	338.1	309.1	302.7
77.5°	360.6	370.3	380.0	367.1	344.6	302.7	270.5	222.2	183.5	161.0	157.8
80°	264.0	276.9	283.3	273.7	247.9	215.7	180.3	141.7	112.7	93.4	93.4
82.5°	202.8	215.7	222.2	206.0	180.3	154.6	128.8	99.8	77.3	61.1	57.9
85°	70.8	67.6	80.5	83.7	99.8	93.4	77.3	57.9	45.1	32.2	29.0
87.5°	19.3	19.3	22.5	22.5	19.3	16.1	16.1	16.1	12.9	9.7	9.7
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)