

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: P652435

Luminaire Tested: **GALN-SA6B-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652435
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-SA6B-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 28655.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

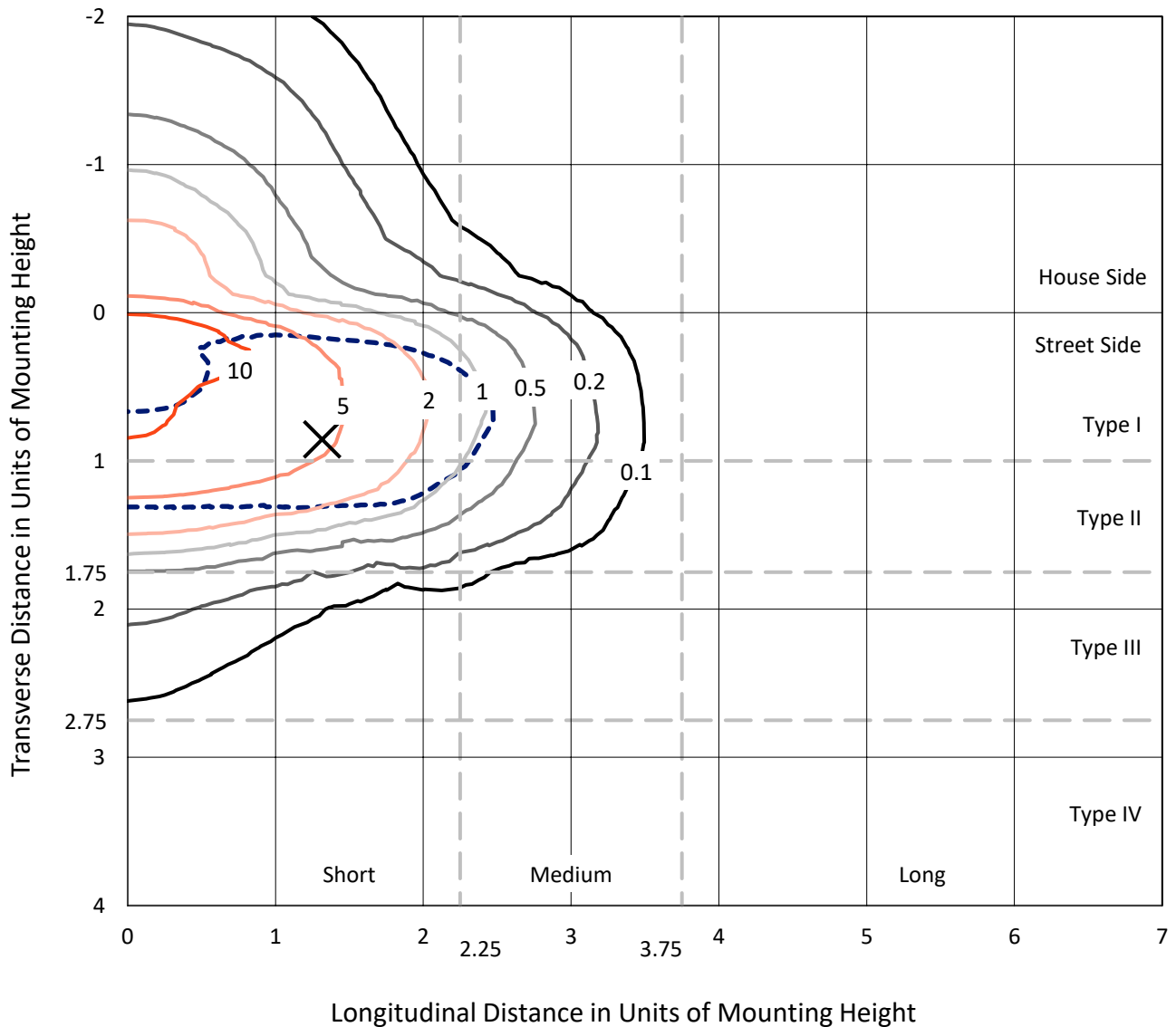
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652435
 CATALOG NUMBER: GALN-SA6B-840-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

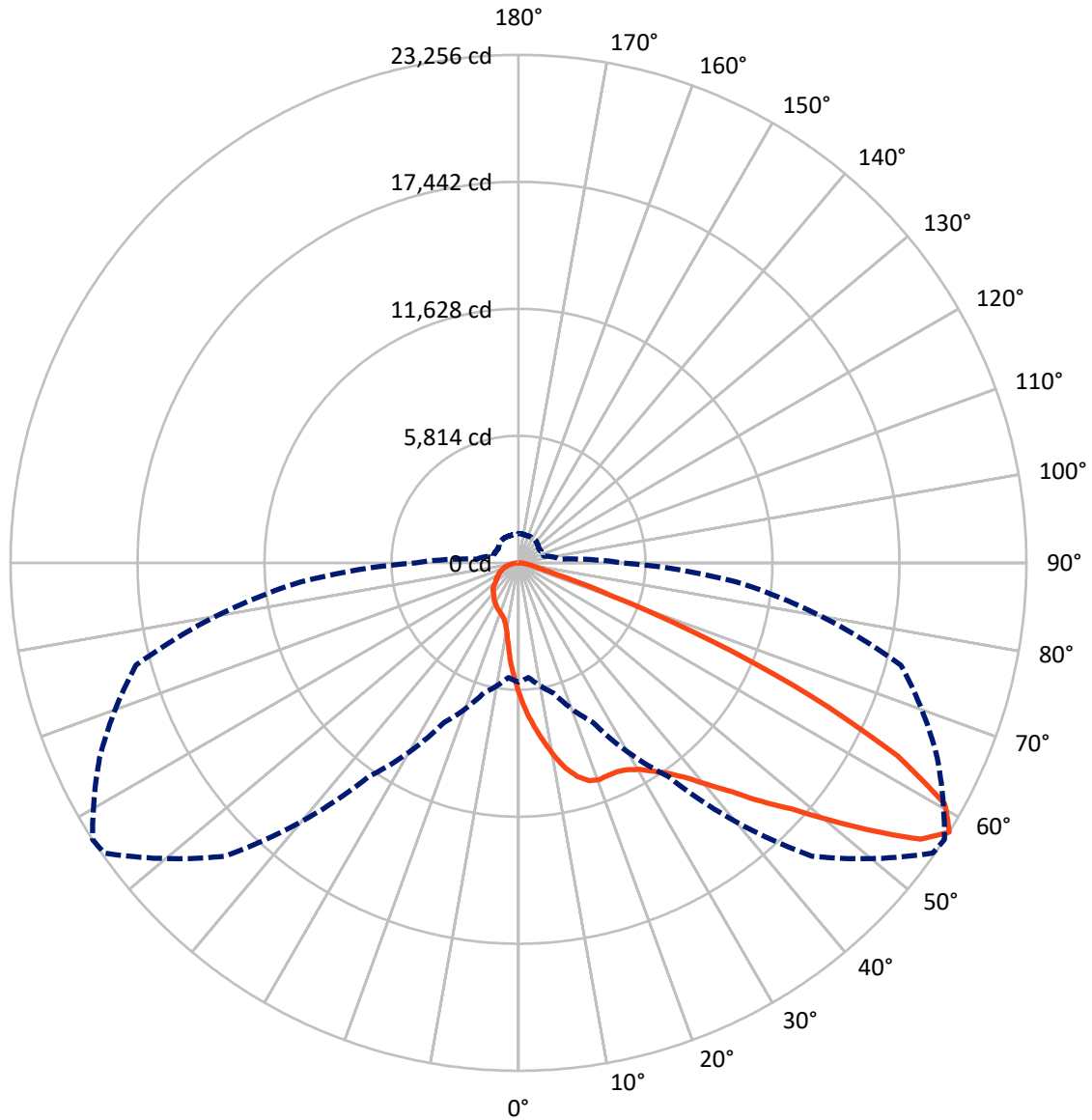
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

REPORT NUMBER: P652435
CATALOG NUMBER: GALN-SA6B-840-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652435
 CATALOG NUMBER: GALN-SA6B-840-U-AFL

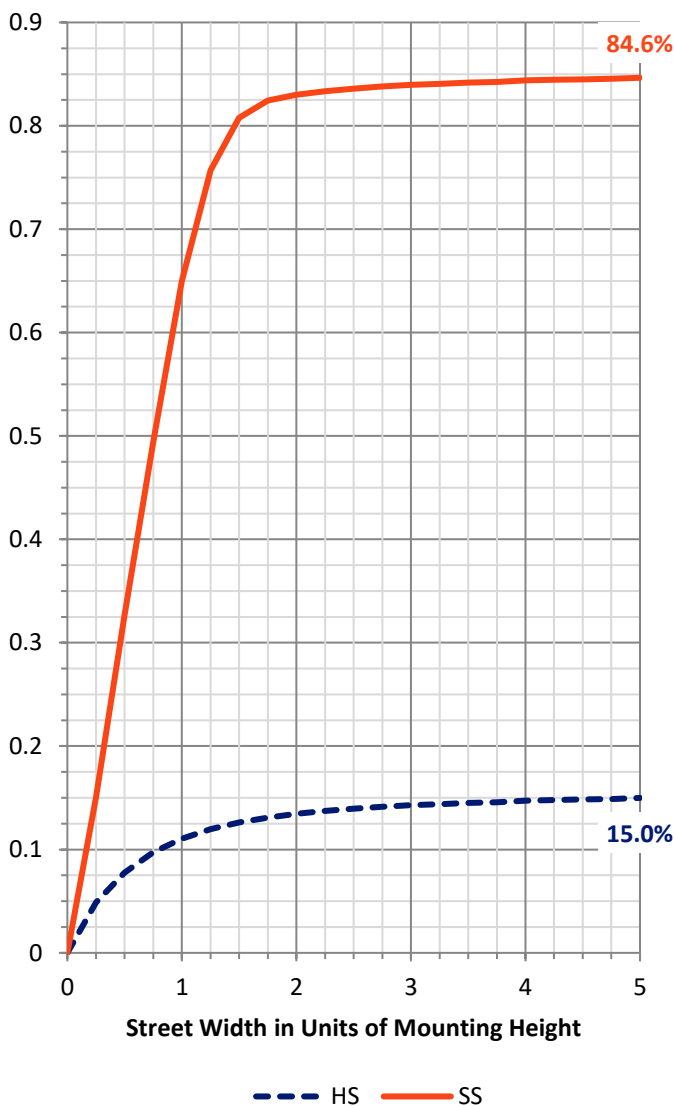
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4357.7	0.0	4357.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	24297.7	0.0	24297.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	28655.4	0.0	28655.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.6	2.0
10°-20°	1705.2	6.0
20°-30°	2831.4	9.9
30°-40°	4265.0	14.9
40°-50°	6403.5	22.3
50°-60°	7177.5	25.0
60°-70°	4200.6	14.7
70°-80°	1242.5	4.3
80°-90°	251.1	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°	28655.4	100.0
0°-180°	28655.4	100.0

Coefficient of Utilization



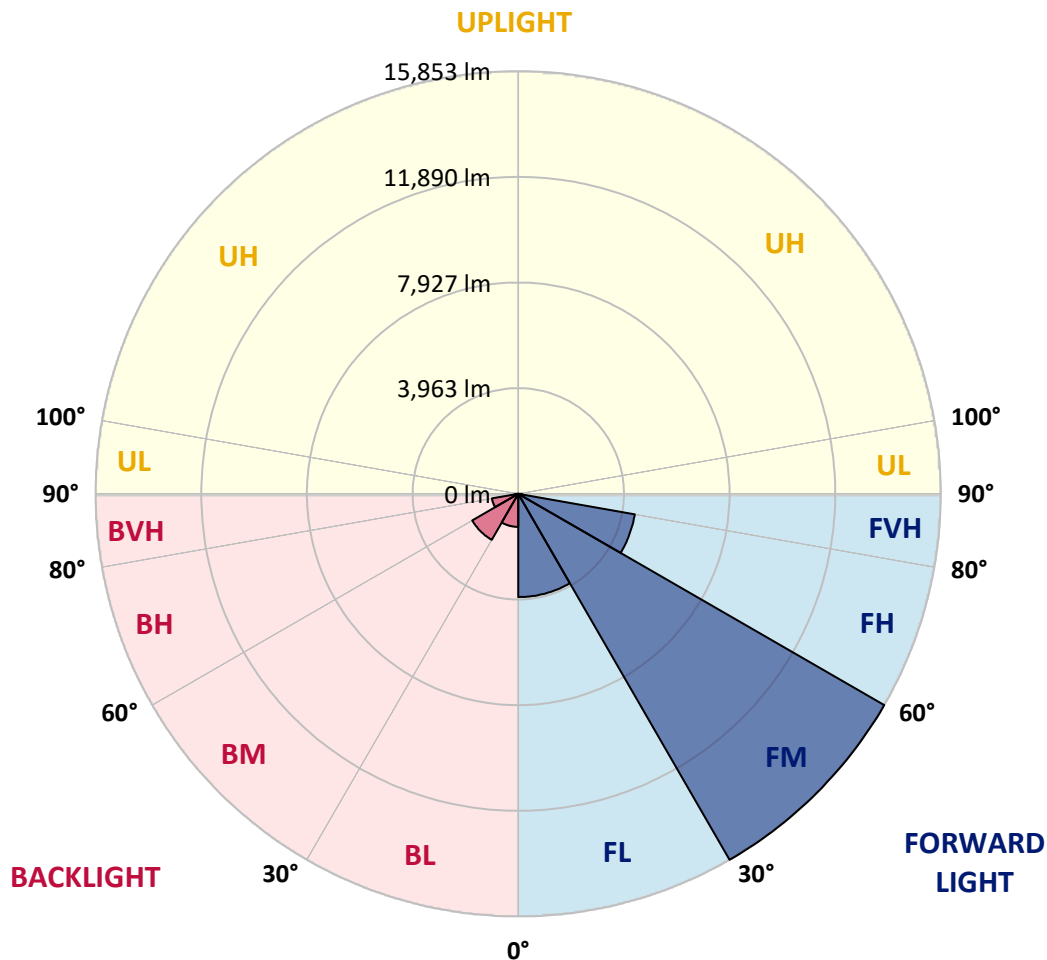
REPORT NUMBER: P652435
 CATALOG NUMBER: GALN-SA6B-840-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3873.5	13.5			
FM (30°-60°)	15853.4	55.3			
FH (60°-80°)	4440.4	15.5			G2/5000
FVH (80°-90°)	130.3	0.5			G2/225
BL (0°-30°)	1241.7	4.3	B3/2500		
BM (30°-60°)	1992.5	7.0	B2/2500		
BH (60°-80°)	1002.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	120.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P652435

CATALOG NUMBER: GALN-SA6B-840-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1
2.5°	7480.5	7398.9	7334.6	7278.2	7204.4	7005.2	6806.0	6802.8	6644.5	6399.8	6148.8
5°	8699.3	8589.5	8603.6	8427.9	8252.2	7963.6	7541.7	7519.7	7182.5	6724.5	6258.6
7.5°	9493.0	9494.6	9450.7	9350.2	9160.4	8832.6	8354.2	8246.0	7777.0	7082.1	6384.1
10°	9452.2	9494.6	9568.3	9654.5	9712.6	9551.0	9114.9	8983.2	8373.0	7515.0	6523.7
12.5°	8909.5	8975.3	9080.4	9296.9	9646.7	9913.4	9764.3	9657.7	9063.2	7946.4	6677.4
15°	8570.6	8609.9	8667.9	8813.8	9190.3	9828.7	10214.5	10158.0	9714.1	8434.2	6849.9
17.5°	8467.1	8506.4	8525.2	8614.6	8882.8	9536.9	10391.7	10492.1	10291.4	8882.8	7024.0
20°	8570.6	8589.5	8589.5	8642.8	8853.0	9366.0	10383.9	10586.3	10765.1	9420.8	7187.2
22.5°	8842.0	8849.8	8838.9	8857.7	9014.6	9413.0	10310.2	10561.2	11147.8	9877.3	7314.3
25°	9282.8	9295.3	9223.2	9179.3	9293.8	9620.0	10351.0	10581.5	11447.4	10313.4	7398.9
27.5°	9783.2	9798.8	9711.0	9609.1	9662.4	9875.7	10511.0	10718.0	11671.7	10743.1	7452.3
30°	10396.4	10402.7	10255.3	10133.0	10098.5	10256.8	10783.9	10976.8	11950.9	11249.8	7532.2
32.5°	11023.9	11070.9	10881.2	10708.6	10650.6	10699.2	11187.1	11373.7	12283.5	11794.1	7660.9
35°	11877.2	11885.0	11657.6	11447.4	11256.0	11318.8	11703.1	11838.0	12743.1	12423.1	7842.8
37.5°	12942.2	13014.4	12700.7	12308.5	12073.3	11982.3	12327.4	12474.8	13387.7	13194.8	8117.3
40°	14124.9	14151.7	13883.4	13638.7	13208.9	12945.4	13183.9	13343.8	14183.0	14115.6	8435.7
42.5°	14868.5	14926.5	14946.9	14921.8	14598.7	14156.3	14247.3	14322.7	15124.1	14979.8	8762.0
45°	15119.4	15205.7	15497.4	16115.5	16150.0	15713.9	15502.2	15574.3	16150.0	15851.9	9074.1
47.5°	14703.8	14851.2	15389.2	16656.7	17605.7	17638.5	17000.1	16841.7	17084.8	16575.1	9300.0
50°	13629.3	13660.7	14484.2	16319.4	18288.0	19478.5	18818.1	18523.3	17972.7	17110.0	9455.4
52.5°	11966.6	12002.7	12692.9	14752.4	17867.5	20764.7	20945.1	20418.1	18874.6	17525.6	9557.3
55°	8882.8	9091.5	9850.6	11841.1	15875.5	20643.9	22636.0	22336.5	19964.8	17855.0	9717.3
57.5°	5461.8	5270.4	6170.8	8056.2	11939.9	18984.4	23158.4	23255.6	21164.7	18131.1	9985.5
60°	2512.8	2550.5	2922.2	4155.1	7278.2	14851.2	21812.5	22427.4	21828.2	18121.7	10053.0
62.5°	1731.7	1697.2	1603.1	1824.2	3319.1	9392.6	18424.5	19466.0	20498.0	17558.6	9784.7
65°	1548.2	1513.6	1331.7	1270.6	1524.6	4094.0	13394.0	14708.5	17259.0	16137.4	9116.5
67.5°	1446.2	1399.2	1211.0	1091.7	1088.6	1629.8	7897.7	9480.4	12801.1	13643.5	7899.3
70°	1339.5	1302.0	1115.3	983.5	927.0	1024.3	3471.2	4544.2	8311.9	9831.8	6153.5
72.5°	1232.9	1189.0	1021.1	879.9	806.3	767.0	1330.1	1730.1	4696.3	5894.7	3772.4
75°	1077.6	1055.6	912.9	796.8	716.9	619.6	843.9	963.1	2246.2	2707.3	1893.3
77.5°	942.7	919.2	811.0	696.4	638.4	503.5	599.2	654.1	947.4	1098.0	854.9
80°	690.2	713.7	683.9	614.9	569.4	395.3	403.1	448.6	563.1	622.8	522.3
82.5°	437.7	481.6	527.1	473.7	431.3	312.2	279.2	296.5	384.3	407.8	232.1
85°	183.5	186.6	305.9	288.6	246.2	185.1	167.9	177.3	205.5	214.9	108.2
87.5°	70.6	69.0	108.2	100.4	76.9	53.3	53.3	59.6	81.6	75.3	34.5
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: P652435
 CATALOG NUMBER: GALN-SA6B-840-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1	6020.1
2.5°	6040.6	5929.2	5708.0	5433.5	5232.8	5006.9	4807.7	4664.9	4611.6	4586.5	4539.5
5°	6035.9	5816.3	5358.3	4878.2	4492.4	4097.1	3763.0	3546.5	3527.7	3383.4	3369.3
7.5°	6037.5	5701.7	4972.3	4266.5	3678.3	3273.6	2997.6	2925.4	2839.1	2817.2	2828.1
10°	6042.2	5555.9	4558.3	3661.0	3091.7	2826.6	2723.1	2694.8	2697.9	2707.3	2708.9
12.5°	6048.4	5414.7	4128.5	3201.4	2762.3	2652.4	2641.5	2666.6	2693.2	2713.7	2718.4
15°	6056.2	5253.1	3709.7	2831.2	2597.5	2588.2	2624.3	2666.6	2704.2	2734.0	2738.7
17.5°	6046.9	5064.9	3358.3	2603.8	2506.6	2552.1	2611.6	2665.0	2699.5	2727.8	2730.9
20°	6024.8	4854.8	3019.5	2443.9	2450.1	2523.8	2588.2	2638.3	2676.0	2690.1	2701.0
22.5°	5940.2	4603.7	2724.6	2319.9	2382.6	2484.7	2561.4	2591.3	2548.9	2519.1	2527.0
25°	5795.8	4277.5	2450.1	2219.6	2321.5	2429.7	2508.1	2436.0	2401.5	2388.9	2395.2
27.5°	5615.4	3919.8	2243.0	2114.4	2243.0	2368.5	2346.6	2334.0	2318.4	2297.9	2302.7
30°	5421.0	3570.0	2067.3	2032.9	2158.3	2230.5	2239.9	2260.3	2243.0	2211.7	2224.2
32.5°	5240.6	3240.6	1934.0	1963.8	2098.7	2087.8	2158.3	2181.9	2101.9	1996.8	2001.5
35°	5086.9	2934.8	1833.6	1896.4	1996.8	2001.5	2072.1	1990.5	1904.3	1854.1	1857.2
37.5°	4970.8	2696.3	1767.8	1838.3	1866.6	1926.2	1888.5	1846.2	1835.2	1800.7	1802.3
40°	4901.8	2487.8	1725.4	1792.8	1788.1	1828.9	1708.2	1750.5	1766.2	1755.3	1756.8
42.5°	4832.7	2340.3	1681.5	1730.1	1728.6	1648.5	1621.9	1657.9	1698.7	1703.4	1700.3
45°	4777.9	2225.8	1636.0	1634.5	1665.9	1540.4	1532.5	1554.4	1612.4	1640.7	1639.2
47.5°	4716.7	2130.1	1567.0	1523.1	1532.5	1472.9	1460.3	1469.7	1540.4	1585.8	1598.4
50°	4639.8	2034.5	1480.7	1421.1	1381.9	1410.1	1413.3	1414.8	1485.5	1537.2	1548.2
52.5°	4578.7	1962.3	1381.9	1338.0	1290.9	1353.7	1377.2	1380.3	1422.7	1465.0	1472.9
55°	4614.7	1921.5	1284.6	1253.3	1211.0	1295.6	1341.1	1347.4	1356.8	1388.2	1392.9
57.5°	4723.0	1930.9	1206.2	1165.5	1134.1	1226.6	1303.5	1308.2	1302.0	1339.5	1345.9
60°	4755.9	1926.2	1148.2	1068.2	1049.4	1152.9	1248.5	1258.0	1256.5	1311.3	1322.3
62.5°	4617.8	1866.6	1090.2	986.7	974.0	1077.6	1171.7	1209.4	1217.2	1295.6	1309.8
65°	4293.1	1744.2	1013.3	900.4	900.4	997.6	1098.0	1149.7	1171.7	1276.8	1292.5
67.5°	3865.0	1599.9	934.9	826.6	823.5	920.7	1019.5	1072.9	1107.4	1250.1	1259.6
70°	3207.7	1405.5	837.6	746.6	746.6	834.4	923.9	988.2	1038.4	1199.9	1199.9
72.5°	2197.5	1168.6	720.0	655.6	657.2	738.8	829.8	901.9	961.5	1099.6	1102.7
75°	1389.8	912.9	591.4	558.4	564.6	641.5	735.6	811.0	930.1	1087.0	1091.7
77.5°	738.8	641.5	470.5	462.7	470.5	541.2	646.2	749.8	933.3	942.7	927.0
80°	478.4	454.9	371.7	356.1	359.2	436.1	575.7	712.2	749.8	759.2	724.7
82.5°	260.4	288.6	263.5	247.8	247.8	340.4	491.0	566.2	538.0	447.1	426.6
85°	111.3	134.9	136.5	119.2	114.5	210.2	329.4	309.0	287.0	274.5	271.4
87.5°	31.4	43.9	43.9	33.0	25.1	58.0	65.9	18.8	0.0	1.6	3.1
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)