

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: P531686

Luminaire Tested: **GALN-SA7A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531686
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-SA7A-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 26176 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

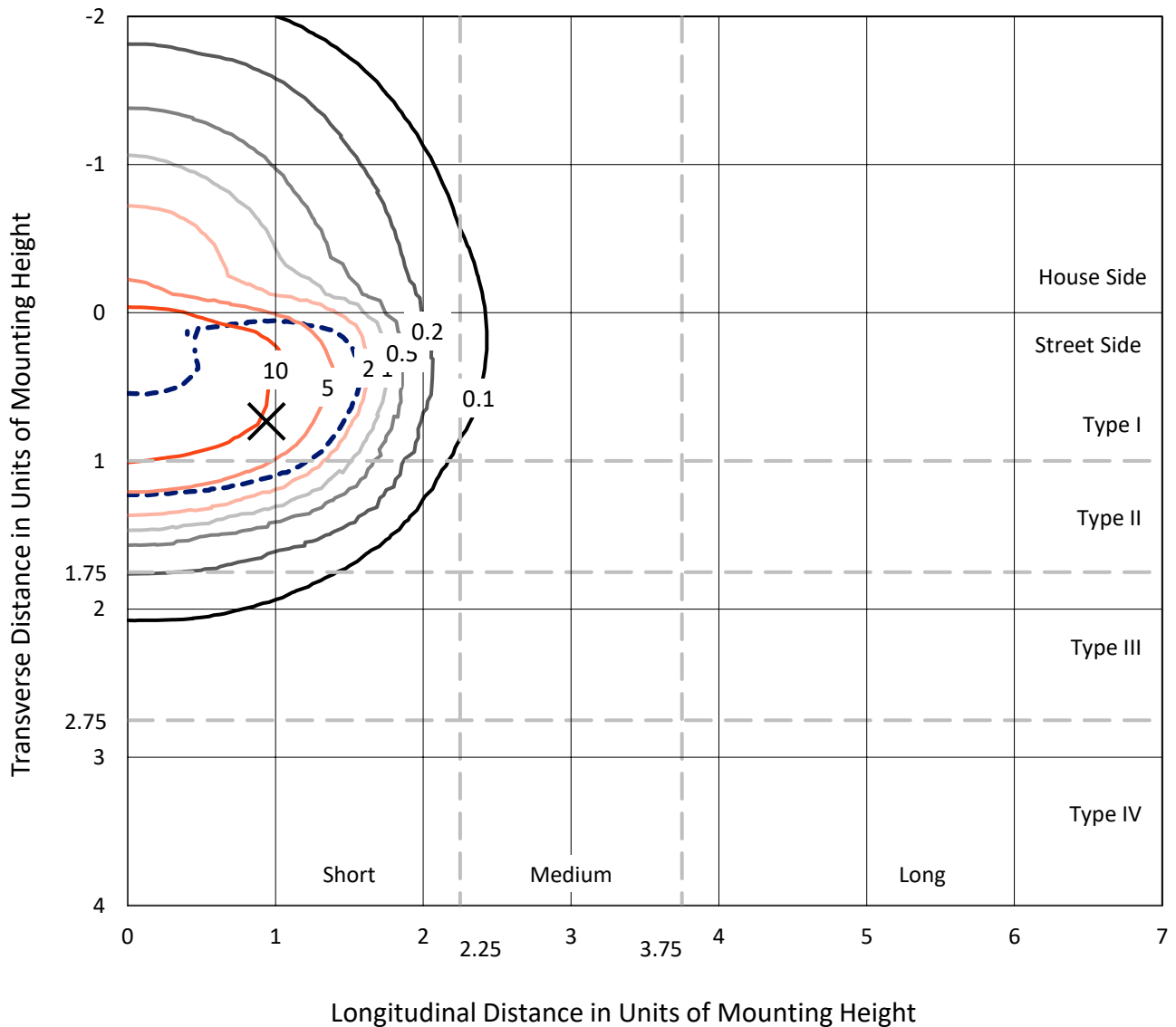
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531686
 CATALOG NUMBER: GALN-SA7A-730-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

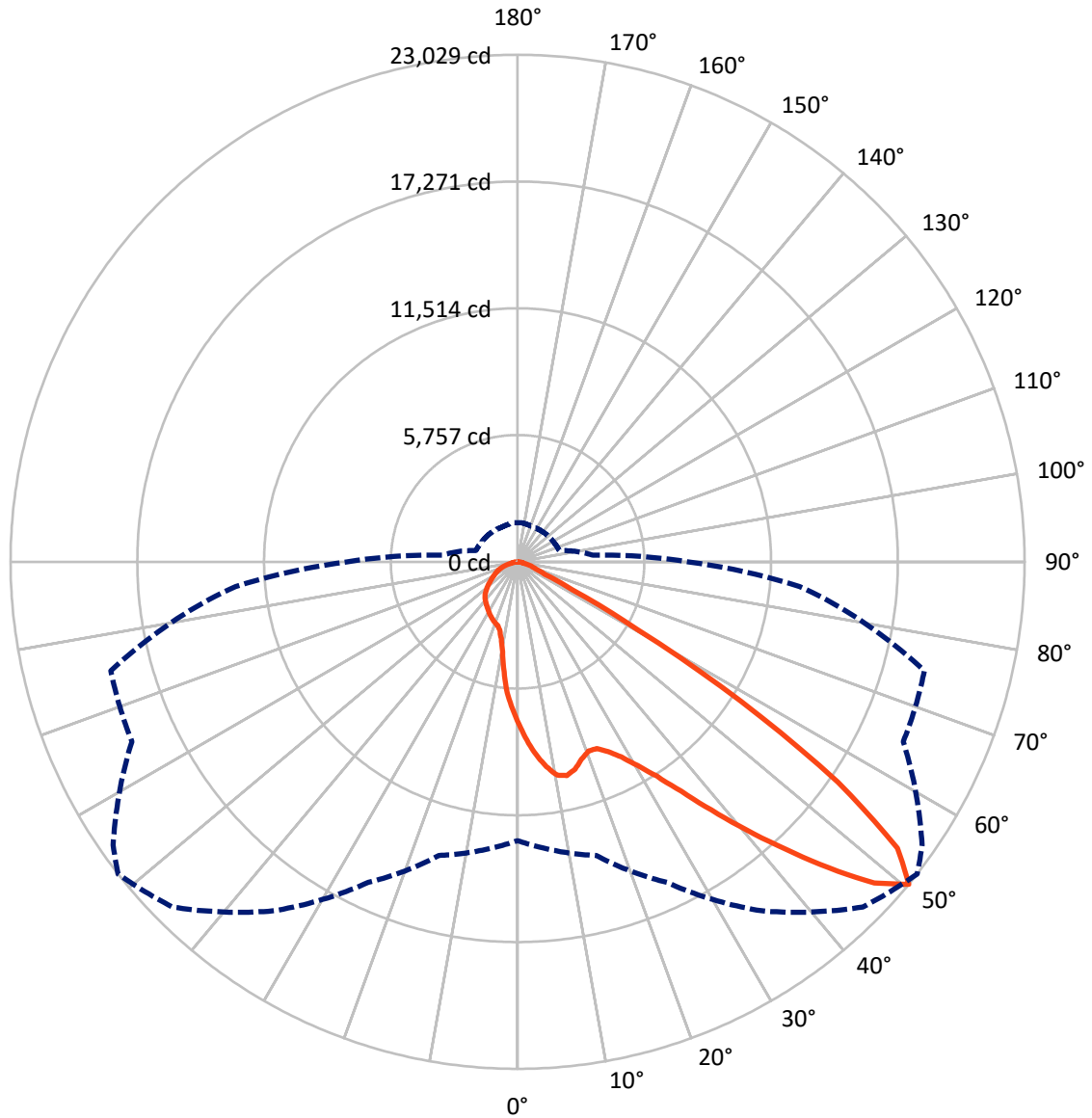
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

REPORT NUMBER: P531686
CATALOG NUMBER: GALN-SA7A-730-U-AFL-GRSWH

Luminous Intensity Polar Plot



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

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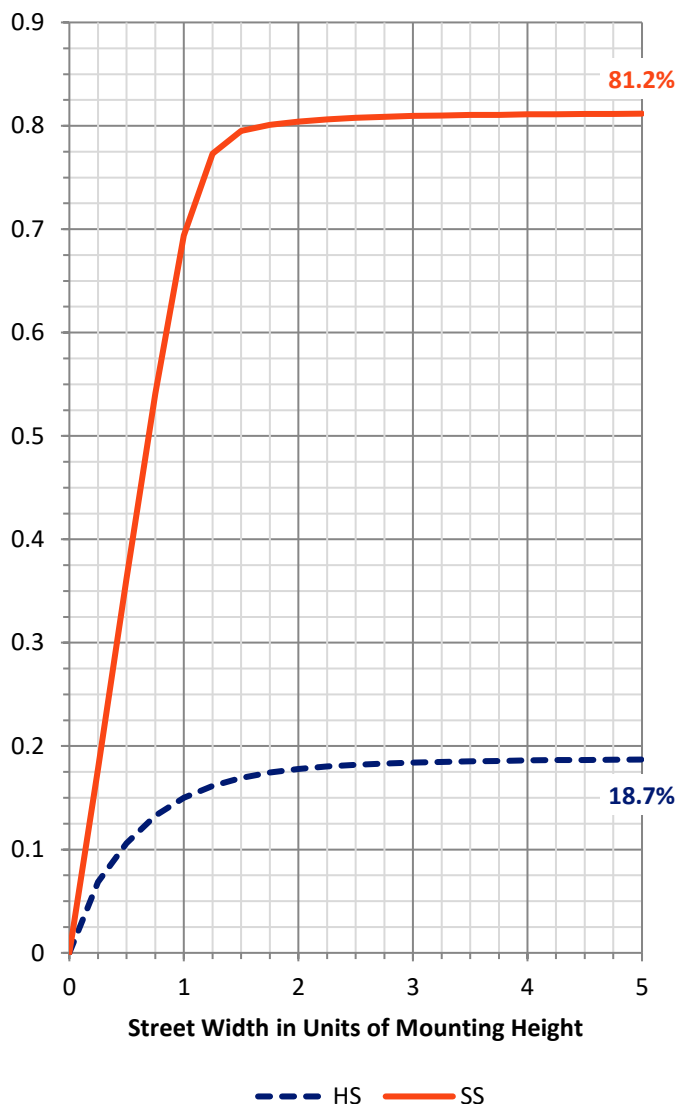
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4920.5	0.0	4920.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21255.5	0.0	21255.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	26176.0	0.0	26176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.1	2.6
10°-20°	1822.8	7.0
20°-30°	3070.4	11.7
30°-40°	5152.4	19.7
40°-50°	7881.9	30.1
50°-60°	5746.6	22.0
60°-70°	1278.9	4.9
70°-80°	461.3	1.8
80°-90°	81.7	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°	26176.0	100.0
0°-180°	26176.0	100.0

Coefficient of Utilization



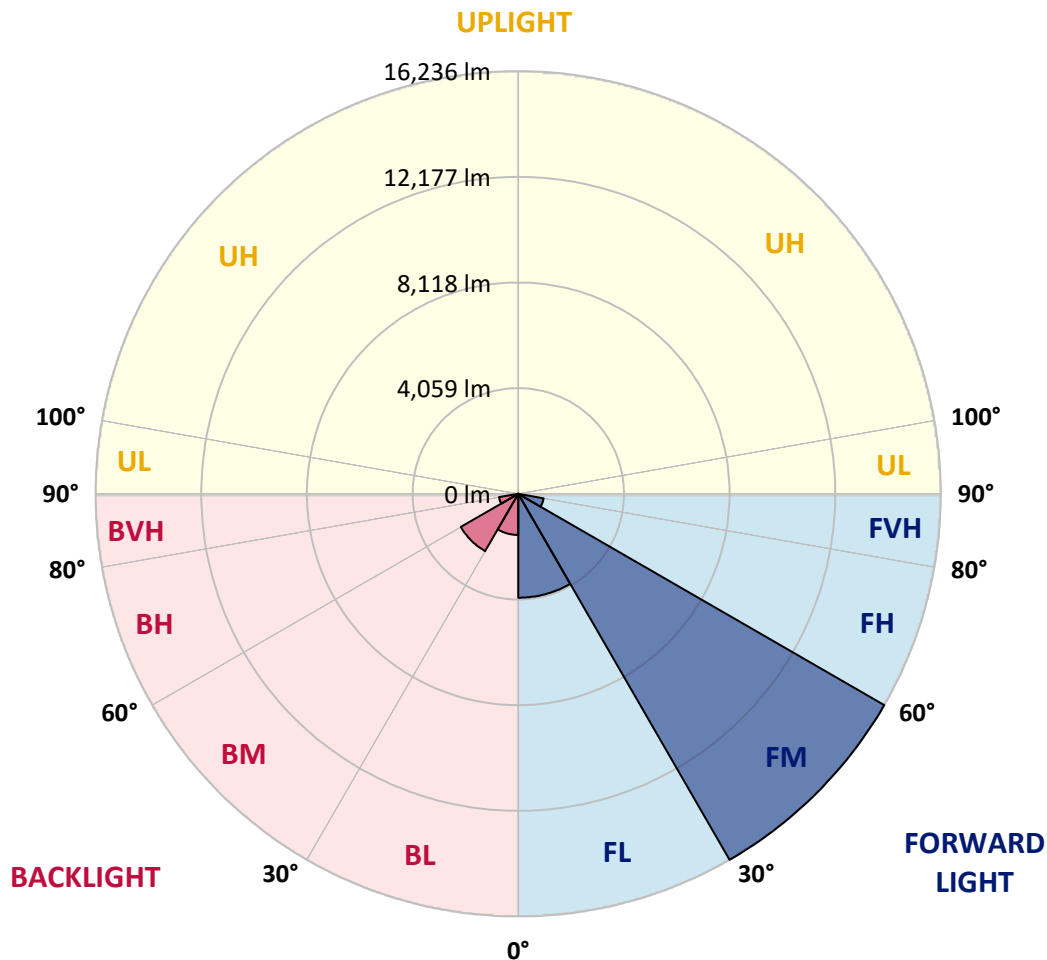
REPORT NUMBER: P531686
 CATALOG NUMBER: GALN-SA7A-730-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3992.7	15.3			
FM (30°-60°)	16235.7	62.0			
FH (60°-80°)	990.5	3.8			G1/1800
FVH (80°-90°)	36.6	0.1			G1/100
BL (0°-30°)	1580.6	6.0	B3/2500		
BM (30°-60°)	2545.2	9.7	B3/5000		
BH (60°-80°)	749.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	45.1	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: P531686

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6
2.5°	8687.7	8520.5	8539.5	8419.6	8290.3	8252.4	8119.9	7993.7	7899.1	7697.2	7511.1
5°	9495.3	9444.8	9369.1	9274.5	9176.7	8936.9	8801.3	8643.6	8296.6	7984.3	7675.1
7.5°	9612.0	9602.6	9643.6	9643.6	9678.3	9586.8	9394.4	9284.0	8914.9	8407.0	7832.8
10°	8791.8	8820.2	9019.0	9277.6	9637.3	9886.5	9854.9	9826.5	9422.8	8728.7	8019.0
12.5°	8138.8	8075.7	8192.5	8413.3	8952.7	9555.2	9962.2	9965.3	9861.2	9242.9	8154.6
15°	7769.7	7813.9	7845.5	7949.6	8356.5	9053.7	9769.8	9981.1	10438.5	9605.7	8369.1
17.5°	8006.3	7858.1	7851.8	7877.0	8085.2	8608.9	9413.3	9776.1	10754.0	10072.6	8634.1
20°	8315.5	8312.3	8224.0	8192.5	8189.3	8656.2	9179.8	9672.0	10921.2	10678.3	8902.2
22.5°	8858.1	8858.1	8713.0	8643.6	8495.3	8877.0	9211.4	9545.8	11198.8	11094.7	9031.6
25°	9766.6	9618.3	9369.1	9198.8	9113.6	9249.3	9545.8	9845.5	11441.7	11536.3	9299.7
27.5°	10605.7	10372.3	10249.3	9955.9	9842.3	9763.4	10034.7	10337.6	11725.6	12224.0	9444.8
30°	11558.4	11517.4	11296.6	10918.0	10637.3	10492.2	10741.4	11041.1	12246.1	12927.5	9779.2
32.5°	13261.9	12889.6	12590.0	12126.2	11668.8	11359.7	11605.7	11804.5	13110.5	13662.5	10145.2
35°	15101.0	14981.1	14463.8	13627.8	12927.5	12649.9	12795.0	12943.3	14116.8	14785.6	10760.3
37.5°	16908.6	16744.6	16318.7	15615.2	14763.5	14198.8	14302.9	14476.4	15246.1	16299.8	11511.1
40°	18208.3	18006.4	17791.9	17687.8	16842.3	16069.5	16009.5	16053.7	16772.9	17719.3	12343.9
42.5°	18302.9	18552.1	18618.4	19037.9	18839.2	18205.1	17836.0	17845.5	18230.4	19123.1	13186.2
45°	18104.2	17873.9	18362.9	19508.0	20164.1	20460.7	19839.2	19760.3	19132.6	19937.0	13605.7
47.5°	16019.0	16082.1	16908.6	18719.3	20615.2	21940.2	21795.0	21533.2	19615.2	19908.6	13539.5
50°	12662.5	13044.2	13810.8	16066.3	19353.4	22173.6	23028.5	22422.8	19328.2	19126.3	12864.4
52.5°	8432.2	8589.9	9094.7	12006.4	15561.6	19820.3	21608.9	21747.7	19063.2	18101.0	12009.5
55°	3754.0	3741.3	4451.1	6271.3	9763.4	15082.1	17656.2	18501.7	18044.2	17056.9	11176.7
57.5°	1589.9	1643.5	1933.8	2709.8	4801.3	9101.0	11962.2	12703.5	13877.0	14006.4	8574.2
60°	1075.7	1082.0	1160.9	1356.5	2009.5	4274.5	6274.5	7164.1	8003.2	7946.4	4548.9
62.5°	845.4	867.5	927.4	1006.3	1192.4	1940.1	2807.6	3302.9	3356.5	2823.4	1725.6
65°	722.4	725.6	785.5	851.7	933.8	1129.3	1353.3	1378.6	1394.3	1343.9	1268.1
67.5°	596.2	602.5	649.8	725.6	801.3	864.4	927.4	959.0	1031.6	1173.5	1154.6
70°	473.2	482.7	523.7	586.8	656.2	694.0	772.9	801.3	867.5	977.9	1022.1
72.5°	359.6	362.8	397.5	441.6	504.7	542.6	608.8	640.4	684.5	779.2	820.2
75°	258.7	268.1	293.4	315.5	324.9	350.2	413.3	448.0	511.0	552.1	555.2
77.5°	135.6	142.0	148.3	148.3	179.8	227.1	268.1	287.1	331.2	362.8	347.0
80°	53.6	56.8	72.6	97.8	126.2	164.0	192.4	201.9	239.7	258.7	268.1
82.5°	31.5	34.7	47.3	69.4	91.5	116.7	138.8	148.3	173.5	195.6	201.9
85°	15.8	18.9	28.4	44.2	59.9	72.6	69.4	66.2	66.2	63.1	66.2
87.5°	6.3	6.3	9.5	9.5	9.5	12.6	15.8	15.8	15.8	18.9	18.9
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°	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6	7378.6
2.5°	7388.0	7261.9	7145.1	6930.6	6697.2	6630.9	6359.6	6261.9	6192.5	6110.4	6085.2
5°	7425.9	7258.7	6883.3	6451.1	6107.3	5665.6	5375.4	5063.1	4836.0	4779.2	4763.4
7.5°	7504.8	7217.7	6571.0	5918.0	5214.5	4615.2	4157.7	3911.7	3694.0	3681.4	3659.3
10°	7593.1	7094.7	6230.3	5205.1	4306.0	3750.8	3476.4	3369.1	3315.5	3302.9	3296.5
12.5°	7665.6	7069.4	5848.6	4511.1	3662.5	3328.1	3246.1	3236.6	3258.7	3265.0	3277.6
15°	7697.2	6968.5	5388.0	3889.6	3261.8	3138.8	3173.5	3211.4	3227.1	3268.2	3236.6
17.5°	7757.1	6839.1	4820.2	3397.5	3037.9	3059.9	3119.9	3164.1	3189.3	3217.7	3176.7
20°	7788.7	6722.4	4287.1	3104.1	2959.0	3000.0	3082.0	3116.7	3148.3	3160.9	3113.6
22.5°	7760.3	6482.7	3817.1	2867.5	2883.3	2936.9	3009.5	3047.3	3028.4	2977.9	2949.5
25°	7684.6	6145.1	3328.1	2716.1	2776.0	2870.7	2927.5	2899.1	2864.4	2836.0	2826.5
27.5°	7681.4	5731.9	2974.8	2577.3	2684.6	2813.9	2795.0	2769.7	2785.5	2763.4	2738.2
30°	7697.2	5331.3	2684.6	2498.4	2618.3	2681.4	2703.5	2678.2	2697.2	2656.2	2668.8
32.5°	7615.2	4940.1	2495.3	2407.0	2539.4	2536.3	2608.8	2627.8	2583.6	2498.4	2511.1
35°	7649.9	4624.6	2334.4	2365.9	2451.1	2451.1	2507.9	2485.8	2369.1	2318.6	2331.2
37.5°	7889.6	4315.5	2255.5	2309.2	2365.9	2391.2	2372.2	2277.6	2249.2	2249.2	2255.5
40°	8116.8	4050.5	2208.2	2296.5	2287.1	2302.8	2164.0	2173.5	2173.5	2176.7	2160.9
42.5°	8318.6	3870.7	2170.4	2220.8	2236.6	2154.6	2069.4	2059.9	2082.0	2078.9	2066.3
45°	8391.2	3722.4	2116.7	2135.7	2148.3	2012.6	1971.6	1952.7	1977.9	1987.4	2000.0
47.5°	8113.6	3599.4	2056.8	2018.9	1993.7	1905.4	1851.7	1817.0	1848.6	1902.2	1914.8
50°	7757.1	3438.5	1962.2	1889.6	1836.0	1798.1	1760.3	1725.6	1747.6	1785.5	1776.0
52.5°	7230.3	3186.1	1842.3	1766.6	1675.1	1684.5	1649.8	1630.9	1643.5	1643.5	1634.1
55°	6479.5	2618.3	1640.4	1586.8	1511.0	1536.3	1542.6	1517.4	1492.1	1514.2	1495.3
57.5°	4422.7	1848.6	1463.7	1463.7	1388.0	1422.7	1419.6	1359.6	1299.7	1306.0	1293.4
60°	2558.4	1473.2	1350.2	1337.5	1258.7	1287.1	1293.4	1252.4	1160.9	1167.2	1154.6
62.5°	1454.3	1258.7	1179.8	1160.9	1145.1	1170.4	1170.4	1116.7	1037.9	1044.2	1031.6
65°	1236.6	1167.2	1053.6	1050.5	1044.2	1050.5	1025.2	968.5	899.1	870.7	873.8
67.5°	1123.0	1078.9	968.5	940.1	921.1	918.0	870.7	817.0	785.5	760.3	757.1
70°	984.2	949.5	867.5	829.7	810.7	766.6	719.2	684.5	640.4	627.8	640.4
72.5°	779.2	776.0	744.5	703.5	662.5	627.8	586.8	539.4	498.4	489.0	466.9
75°	539.4	545.7	552.1	545.7	511.0	466.9	419.6	381.7	331.2	302.8	296.5
77.5°	353.3	362.8	372.2	359.6	337.5	296.5	265.0	217.7	179.8	157.7	154.6
80°	258.7	271.3	277.6	268.1	242.9	211.4	176.7	138.8	110.4	91.5	91.5
82.5°	198.7	211.4	217.7	201.9	176.7	151.4	126.2	97.8	75.7	59.9	56.8
85°	69.4	66.2	78.9	82.0	97.8	91.5	75.7	56.8	44.2	31.5	28.4
87.5°	18.9	18.9	22.1	22.1	18.9	15.8	15.8	15.8	12.6	9.5	9.5
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)