

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: P652103

Luminaire Tested: **GALN-SA9A-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652103
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-SA9A-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 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: 31461.8 lumens
Efficiency: N/A
Efficacy: 114.8 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

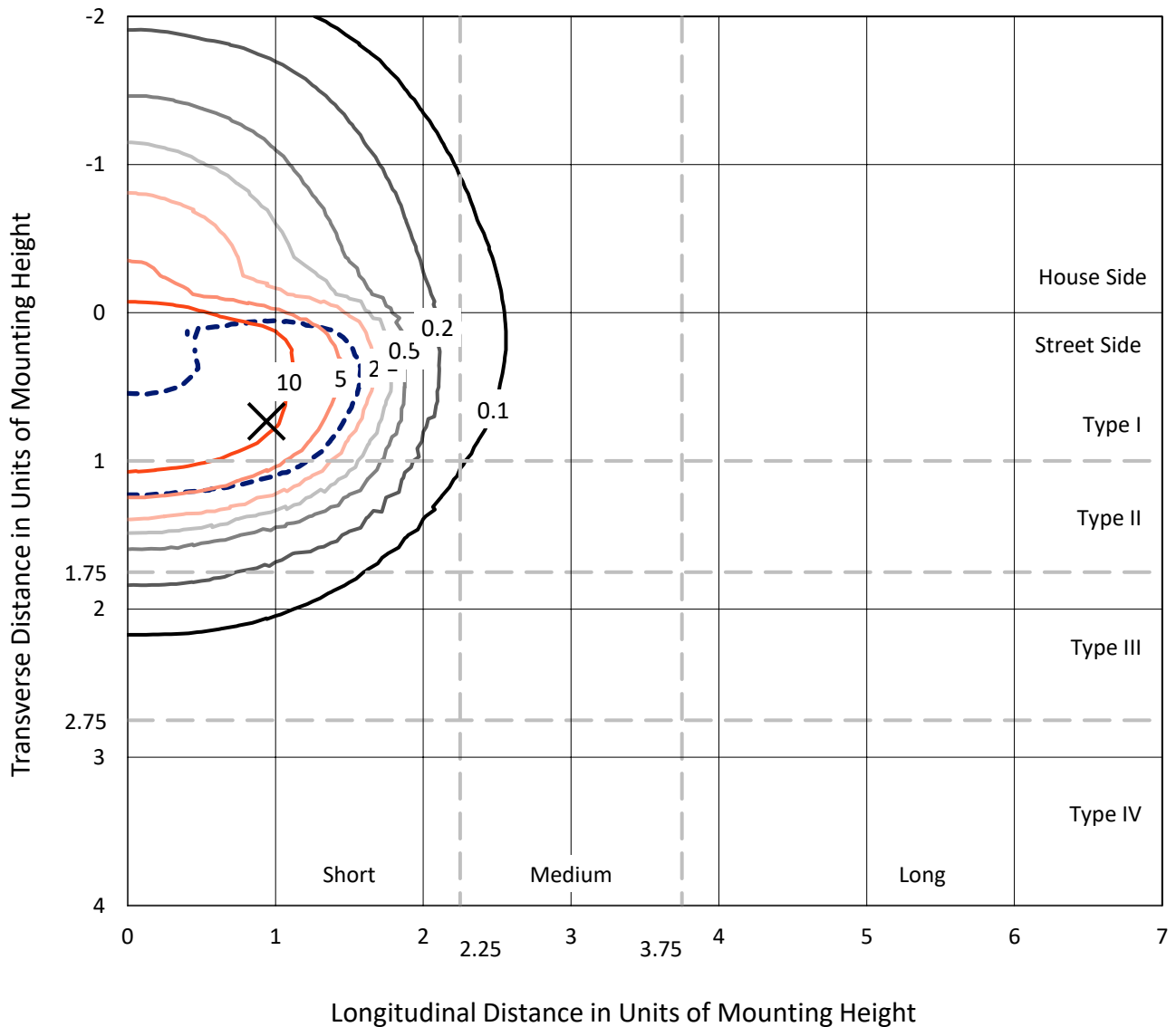
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652103
 CATALOG NUMBER: GALN-SA9A-840-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

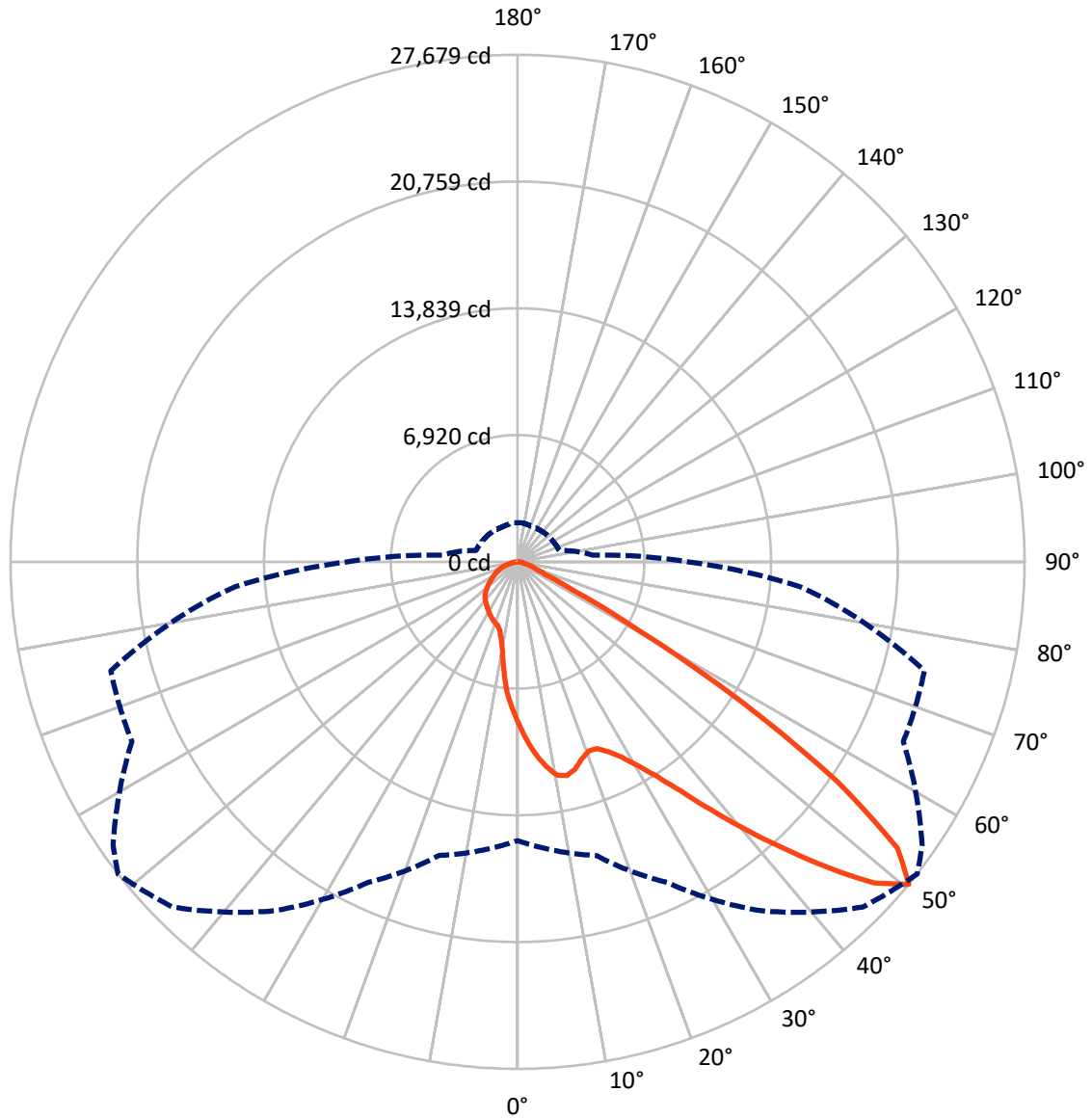
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

REPORT NUMBER: P652103
CATALOG NUMBER: GALN-SA9A-840-U-AFL-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652103
 CATALOG NUMBER: GALN-SA9A-840-U-AFL-GRSWH

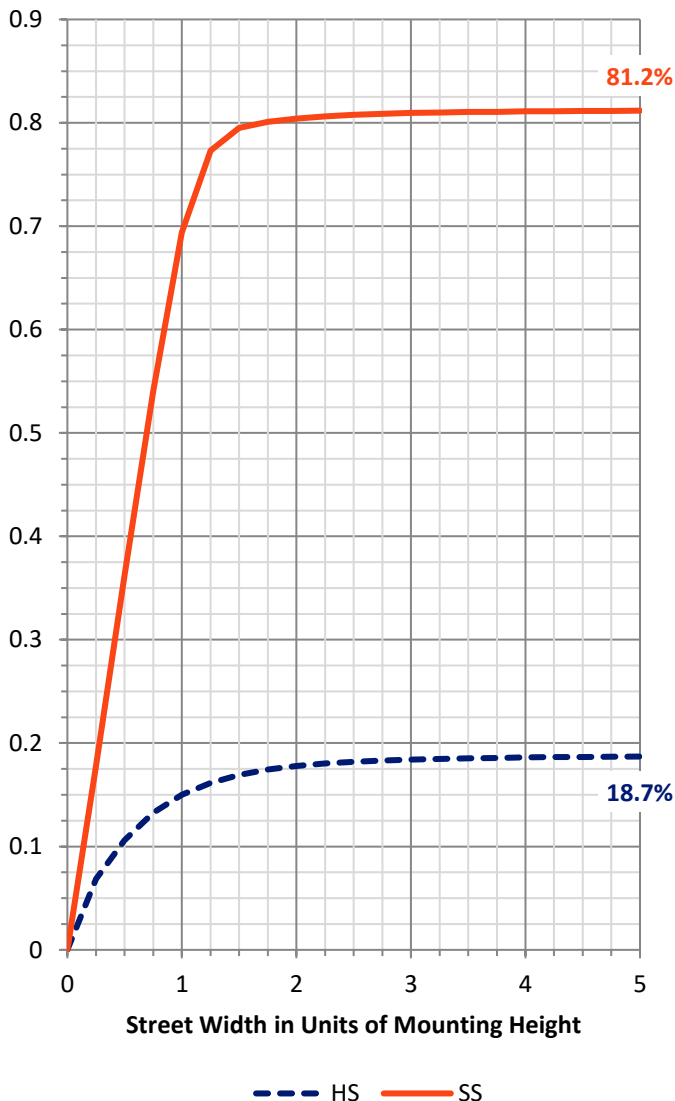
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5914.1	0.0	5914.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25547.7	0.0	25547.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	31461.8	0.0	31461.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.4	2.6
10°-20°	2190.9	7.0
20°-30°	3690.4	11.7
30°-40°	6192.9	19.7
40°-50°	9473.5	30.1
50°-60°	6907.0	22.0
60°-70°	1537.1	4.9
70°-80°	554.4	1.8
80°-90°	98.1	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°	31461.8	100.0
0°-180°	31461.8	100.0

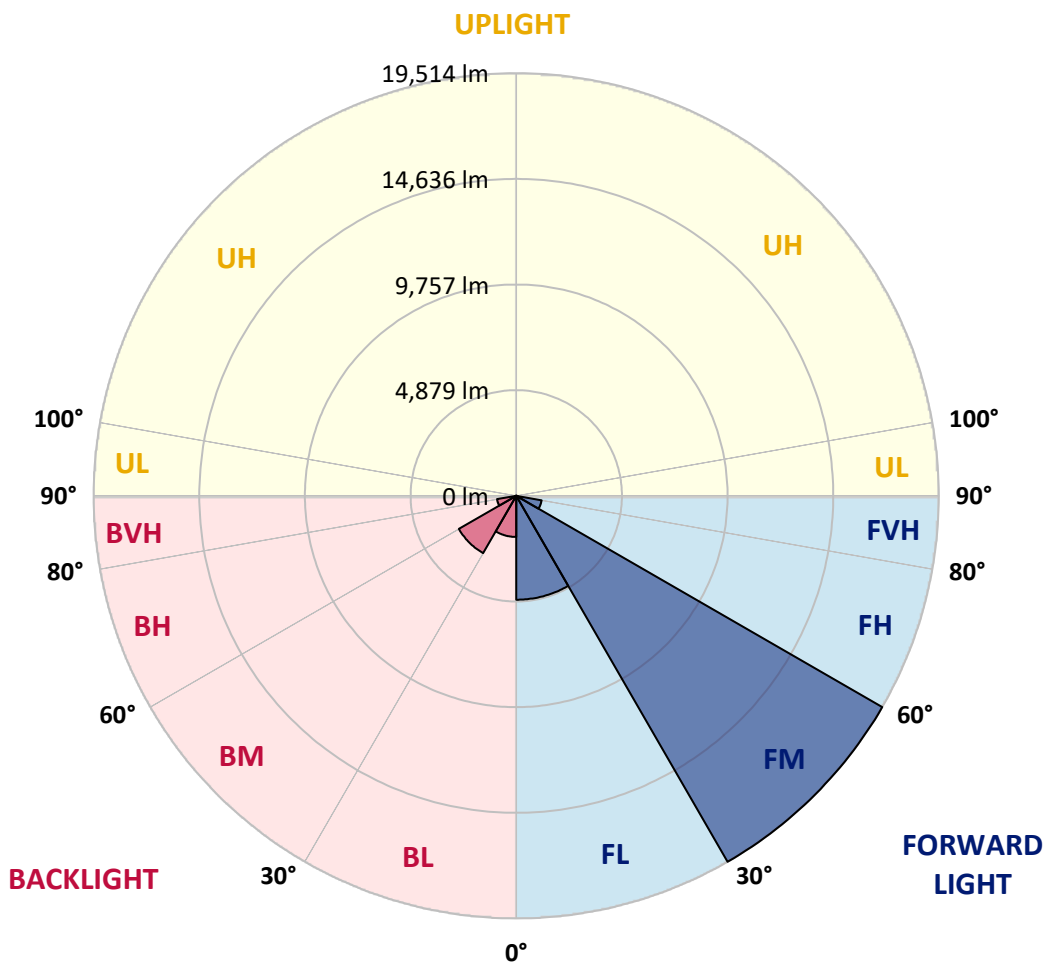


REPORT NUMBER: P652103
 CATALOG NUMBER: GALN-SA9A-840-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4799.0	15.3			
FM (30°-60°)	19514.2	62.0			
FH (60°-80°)	1190.5	3.8			G1/1800
FVH (80°-90°)	44.0	0.1			G1/100
BL (0°-30°)	1899.7	6.0	B3/2500		
BM (30°-60°)	3059.2	9.7	B3/5000		
BH (60°-80°)	901.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	54.2	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: P652103

CATALOG NUMBER: GALN-SA9A-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6
2.5°	10442.1	10241.1	10263.9	10119.8	9964.3	9918.8	9759.6	9607.9	9494.2	9251.5	9027.8
5°	11412.7	11352.1	11261.1	11147.3	11029.8	10741.6	10578.6	10389.0	9971.9	9596.6	9225.0
7.5°	11553.0	11541.6	11590.9	11590.9	11632.6	11522.7	11291.4	11158.7	10715.1	10104.6	9414.6
10°	10567.2	10601.3	10840.2	11151.1	11583.3	11882.9	11845.0	11810.8	11325.5	10491.4	9638.3
12.5°	9782.3	9706.5	9846.8	10112.2	10760.6	11484.8	11973.9	11977.7	11852.5	11109.4	9801.3
15°	9338.7	9391.8	9429.7	9554.9	10044.0	10881.9	11742.6	11996.6	12546.5	11545.4	10059.1
17.5°	9623.1	9444.9	9437.3	9467.6	9717.9	10347.3	11314.1	11750.2	12925.6	12106.6	10377.6
20°	9994.7	9990.9	9884.7	9846.8	9843.0	10404.2	11033.6	11625.1	13126.5	12834.6	10699.9
22.5°	10646.8	10646.8	10472.4	10389.0	10210.7	10669.6	11071.5	11473.4	13460.2	13335.1	10855.4
25°	11738.8	11560.6	11261.1	11056.3	10953.9	11117.0	11473.4	11833.6	13752.1	13865.9	11177.6
27.5°	12747.4	12466.8	12318.9	11966.3	11829.8	11735.0	12061.1	12425.1	14093.4	14692.4	11352.1
30°	13892.5	13843.1	13577.8	13122.7	12785.3	12610.9	12910.4	13270.6	14719.0	15538.0	11754.0
32.5°	15939.9	15492.5	15132.3	14575.0	14025.1	13653.6	13949.3	14188.2	15757.9	16421.5	12193.8
35°	18150.4	18006.3	17384.5	16379.7	15538.0	15204.4	15378.8	15557.0	16967.4	17771.3	12933.2
37.5°	20323.0	20125.8	19614.0	18768.4	17744.7	17066.0	17191.1	17399.7	18324.8	19591.2	13835.5
40°	21885.2	21642.5	21384.6	21259.6	20243.4	19314.4	19242.4	19295.5	20159.9	21297.4	14836.6
42.5°	21998.9	22298.4	22378.1	22882.3	22643.4	21881.4	21437.8	21449.1	21911.7	22984.7	15848.9
45°	21760.0	21483.3	22071.0	23447.2	24235.9	24592.4	23845.4	23750.6	22996.1	23962.9	16353.2
47.5°	19253.8	19329.6	20323.0	22499.4	24778.1	26370.6	26196.2	25881.5	23576.2	23928.8	16273.6
50°	15219.5	15678.3	16599.7	19310.6	23261.5	26651.2	27678.7	26950.7	23231.2	22988.5	15462.1
52.5°	10135.0	10324.5	10931.2	14430.9	18704.0	23822.7	25972.5	26139.3	22912.6	21756.2	14434.7
55°	4512.0	4496.8	5349.9	7537.7	11735.0	18127.7	21221.6	22237.7	21688.0	20501.2	13433.6
57.5°	1911.0	1975.4	2324.3	3257.0	5770.9	10938.8	14377.7	15268.8	16679.3	16834.7	10305.6
60°	1293.0	1300.5	1395.3	1630.4	2415.3	5137.6	7541.5	8610.7	9619.3	9551.1	5467.5
62.5°	1016.2	1042.7	1114.7	1209.5	1433.2	2331.8	3374.5	3969.8	4034.3	3393.5	2074.0
65°	868.2	872.0	944.1	1023.7	1122.3	1357.4	1626.6	1656.9	1675.9	1615.2	1524.2
67.5°	716.6	724.2	781.0	872.0	963.0	1038.9	1114.7	1152.7	1239.9	1410.4	1387.7
70°	568.8	580.1	629.4	705.3	788.7	834.2	929.0	963.0	1042.7	1175.4	1228.4
72.5°	432.3	436.1	477.8	530.8	606.7	652.2	731.8	769.7	822.8	936.5	985.8
75°	310.9	322.3	352.6	379.1	390.6	420.8	496.7	538.4	614.3	663.5	667.3
77.5°	163.1	170.6	178.2	178.2	216.1	273.0	322.3	345.1	398.1	436.1	417.1
80°	64.4	68.3	87.2	117.6	151.6	197.1	231.3	242.6	288.1	310.9	322.3
82.5°	37.9	41.7	56.9	83.4	109.9	140.3	166.9	178.2	208.6	235.1	242.6
85°	18.9	22.8	34.1	53.1	72.1	87.2	83.4	79.6	79.6	75.9	79.6
87.5°	7.6	7.6	11.4	11.4	11.4	15.1	18.9	18.9	18.9	22.8	22.8
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: P652103

CATALOG NUMBER: GALN-SA9A-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6	8868.6
2.5°	8880.0	8728.2	8588.0	8330.2	8049.5	7970.0	7643.8	7526.4	7442.9	7344.4	7314.0
5°	8925.4	8724.4	8273.3	7753.9	7340.6	6809.7	6460.9	6085.6	5812.6	5744.3	5725.4
7.5°	9020.2	8675.2	7897.9	7113.0	6267.6	5547.2	4997.3	4701.6	4440.0	4424.8	4398.3
10°	9126.4	8527.3	7488.4	6256.1	5175.5	4508.2	4178.3	4049.4	3985.0	3969.8	3962.2
12.5°	9213.6	8497.0	7029.7	5422.0	4402.0	4000.1	3901.6	3890.2	3916.7	3924.3	3939.5
15°	9251.5	8375.7	6476.0	4675.0	3920.5	3772.6	3814.4	3859.9	3878.8	3928.1	3890.2
17.5°	9323.6	8220.2	5793.6	4083.6	3651.3	3677.9	3749.9	3803.0	3833.3	3867.4	3818.1
20°	9361.5	8079.9	5152.8	3730.9	3556.5	3605.8	3704.4	3746.1	3784.0	3799.2	3742.3
22.5°	9327.4	7791.8	4587.8	3446.6	3465.5	3530.0	3617.2	3662.7	3639.9	3579.3	3545.2
25°	9236.4	7386.1	4000.1	3264.6	3336.6	3450.4	3518.6	3484.5	3442.8	3408.7	3397.3
27.5°	9232.6	6889.3	3575.5	3097.7	3226.7	3382.1	3359.4	3329.0	3348.0	3321.4	3291.1
30°	9251.5	6407.8	3226.7	3003.0	3147.0	3222.9	3249.4	3219.1	3241.8	3192.5	3207.7
32.5°	9152.9	5937.6	2999.2	2893.0	3052.2	3048.5	3135.7	3158.4	3105.3	3003.0	3018.1
35°	9194.7	5558.5	2805.8	2843.7	2946.1	2946.1	3014.3	2987.8	2847.5	2786.8	2802.0
37.5°	9482.8	5187.0	2711.0	2775.5	2843.7	2874.0	2851.3	2737.5	2703.4	2703.4	2711.0
40°	9755.8	4868.4	2654.1	2760.2	2748.9	2767.9	2601.0	2612.4	2612.4	2616.2	2597.3
42.5°	9998.5	4652.3	2608.6	2669.2	2688.3	2589.7	2487.3	2475.9	2502.5	2498.7	2483.5
45°	10085.7	4474.1	2544.2	2566.9	2582.1	2419.1	2369.8	2347.0	2377.3	2388.7	2403.9
47.5°	9752.0	4326.2	2472.1	2426.6	2396.3	2290.1	2225.7	2184.0	2221.9	2286.3	2301.5
50°	9323.6	4132.8	2358.4	2271.2	2206.7	2161.2	2115.7	2074.0	2100.6	2146.1	2134.7
52.5°	8690.4	3829.5	2214.3	2123.3	2013.4	2024.7	1983.0	1960.3	1975.4	1975.4	1964.1
55°	7788.0	3147.0	1971.6	1907.1	1816.1	1846.5	1854.1	1823.8	1793.4	1820.0	1797.2
57.5°	5315.8	2221.9	1759.3	1759.3	1668.3	1710.0	1706.2	1634.1	1562.2	1569.7	1554.6
60°	3075.0	1770.6	1622.8	1607.7	1512.9	1546.9	1554.6	1505.3	1395.3	1402.9	1387.7
62.5°	1747.9	1512.9	1418.1	1395.3	1376.4	1406.7	1406.7	1342.2	1247.5	1255.0	1239.9
65°	1486.3	1402.9	1266.4	1262.6	1255.0	1262.6	1232.2	1164.0	1080.6	1046.5	1050.2
67.5°	1349.8	1296.7	1164.0	1129.9	1107.2	1103.4	1046.5	982.0	944.1	913.7	910.0
70°	1183.0	1141.2	1042.7	997.2	974.5	921.4	864.5	822.8	769.7	754.5	769.7
72.5°	936.5	932.8	894.8	845.5	796.3	754.5	705.3	648.3	599.0	587.7	561.2
75°	648.3	656.0	663.5	656.0	614.3	561.2	504.3	458.8	398.1	364.0	356.4
77.5°	424.6	436.1	447.4	432.3	405.7	356.4	318.5	261.6	216.1	189.6	185.8
80°	310.9	326.1	333.6	322.3	292.0	254.1	212.4	166.9	132.7	109.9	109.9
82.5°	238.8	254.1	261.6	242.6	212.4	182.0	151.6	117.6	91.0	72.1	68.3
85°	83.4	79.6	94.8	98.6	117.6	109.9	91.0	68.3	53.1	37.9	34.1
87.5°	22.8	22.8	26.6	26.6	22.8	18.9	18.9	18.9	15.1	11.4	11.4
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)