

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: P531908

Luminaire Tested: **GALN-SA7B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29127 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

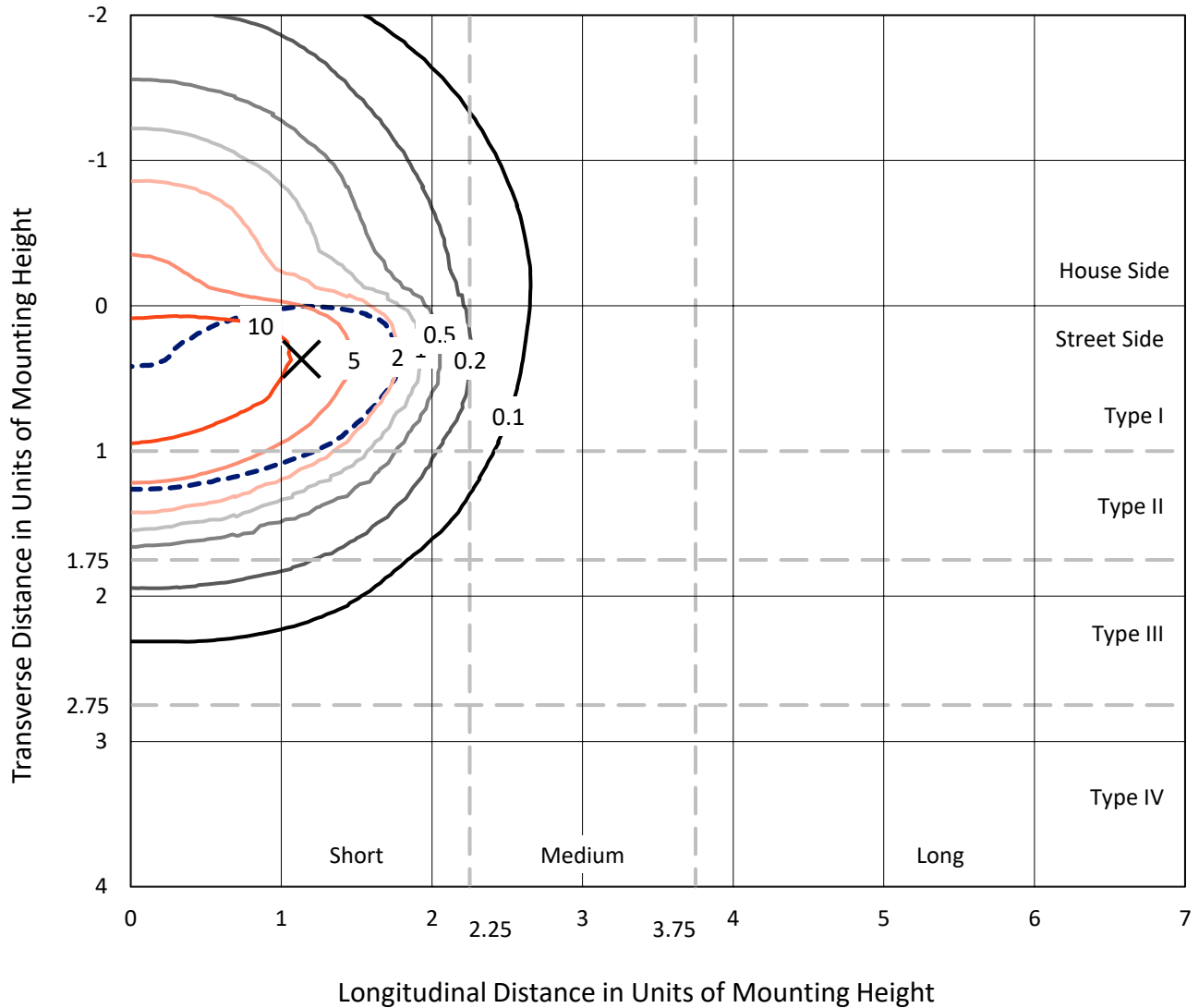
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531908
 CATALOG NUMBER: GALN-SA7B-727-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

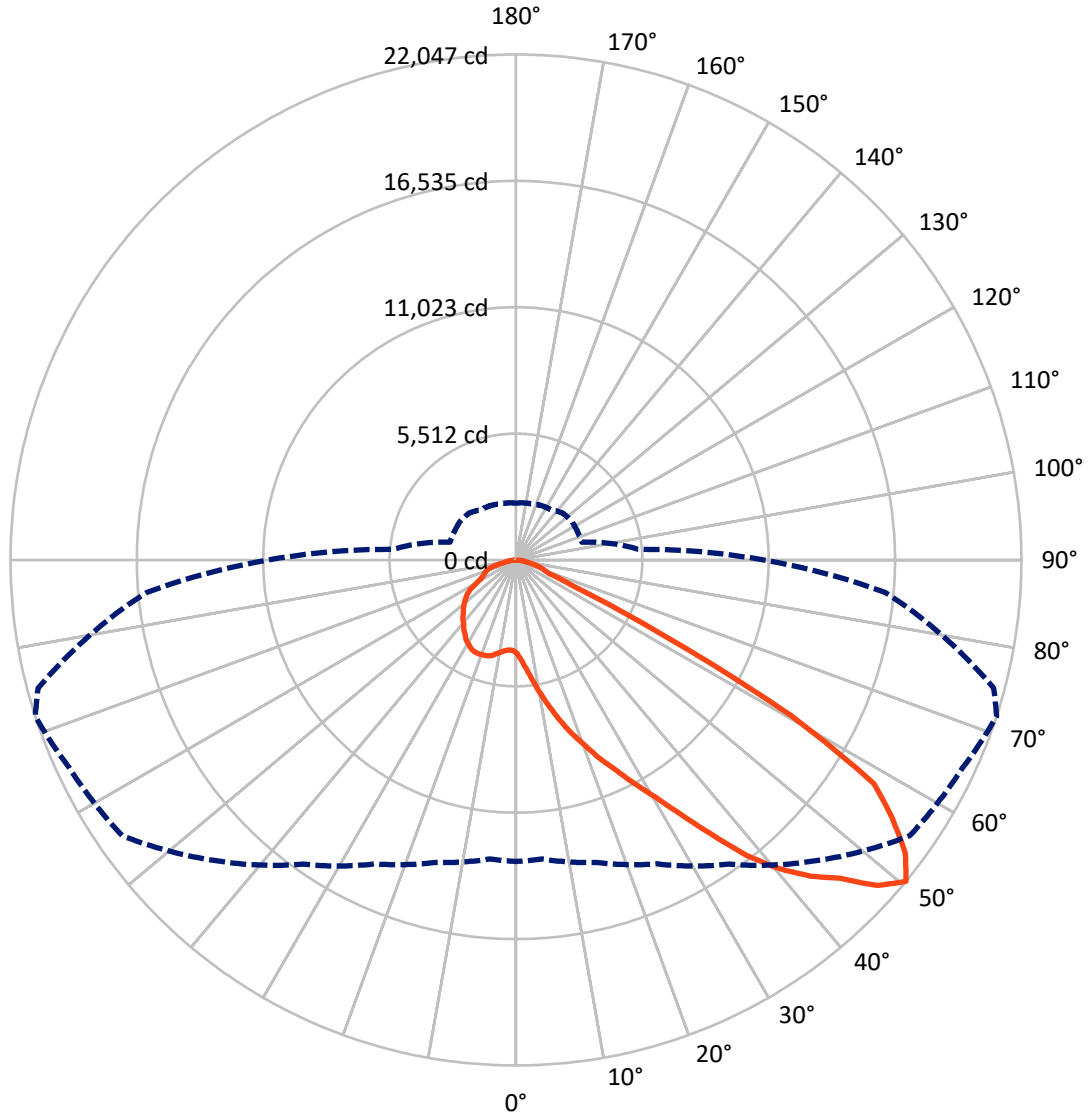
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

REPORT NUMBER: P531908
CATALOG NUMBER: GALN-SA7B-727-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA7B-727-U-T2R-GRSWH

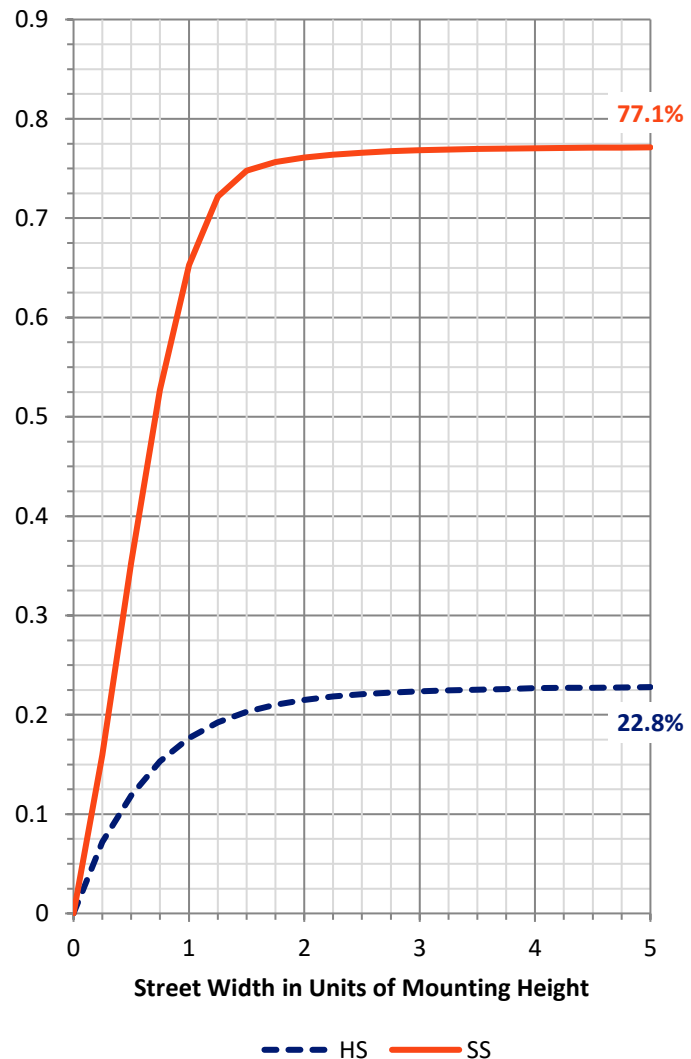
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6673.2	0.0	6673.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22453.8	0.0	22453.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	29127.0	0.0	29127.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.9	1.6
10°-20°	1783.0	6.1
20°-30°	3457.0	11.9
30°-40°	5727.1	19.7
40°-50°	8013.5	27.5
50°-60°	6760.4	23.2
60°-70°	2060.5	7.1
70°-80°	722.9	2.5
80°-90°	125.7	0.4
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°	29127.0	100.0
0°-180°	29127.0	100.0



REPORT NUMBER: P531908

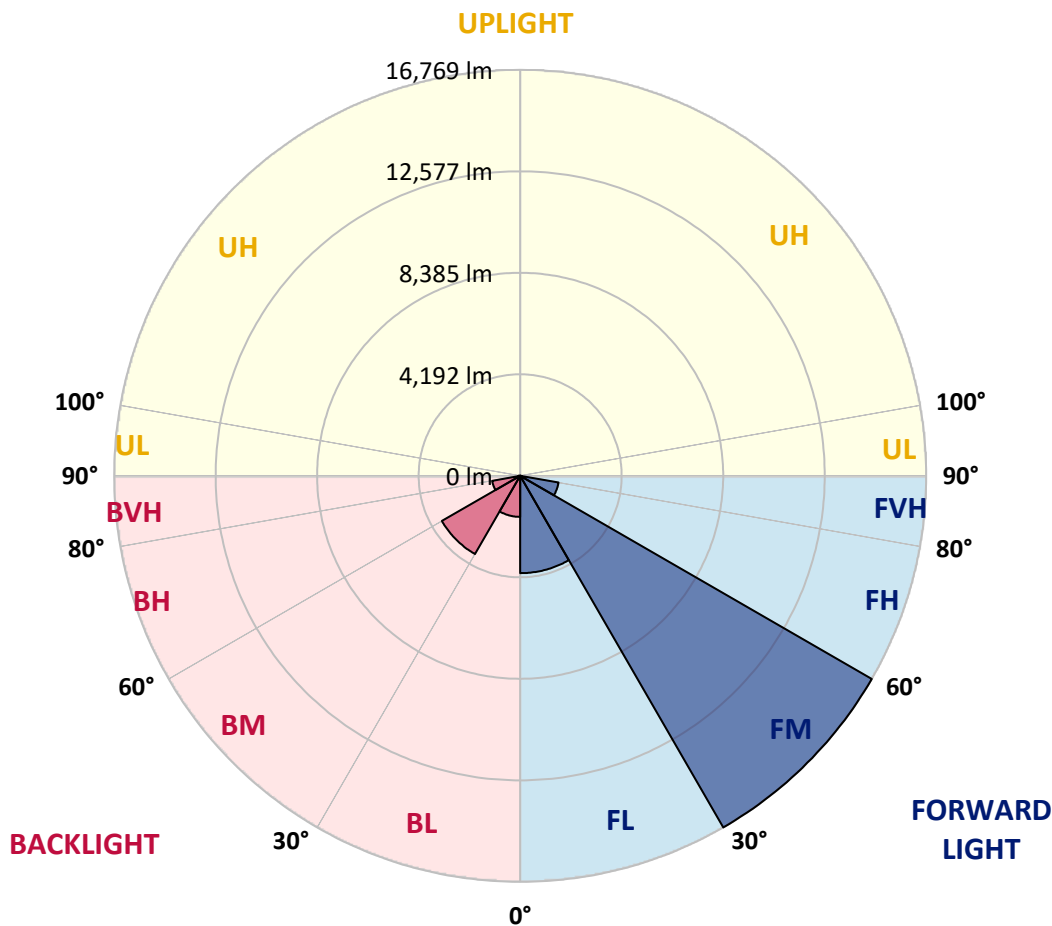
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4020.6	13.8			
FM (30°-60°)	16769.2	57.6			
FH (60°-80°)	1607.8	5.5			G1/1800
FVH (80°-90°)	56.3	0.2			G1/100
BL (0°-30°)	1696.3	5.8	B3/2500		
BM (30°-60°)	3731.7	12.8	B3/5000		
BH (60°-80°)	1175.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	69.4	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-G3

Type II Short





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CATALOG NUMBER: GALN-SA7B-727-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7
2.5°	5215.3	5182.8	5085.5	5053.1	4937.8	4728.7	4656.6	4444.0	4353.9	4271.0	4173.7
5°	6595.7	6444.3	6433.5	6249.7	5983.0	5828.0	5366.7	5056.7	4772.0	4627.8	4361.1
7.5°	7475.1	7478.7	7478.7	7327.3	7114.7	6721.8	6307.4	5748.7	5319.8	5107.2	4653.0
10°	8311.3	8239.2	8199.6	8185.1	8041.0	7658.9	7215.6	6523.6	5936.1	5687.4	4872.9
12.5°	8902.4	8841.1	8931.2	8884.4	8779.8	8531.1	8113.1	7323.7	6588.5	6253.3	5226.1
15°	9183.5	9226.8	9298.8	9428.6	9381.7	9288.0	8826.7	8145.5	7291.3	6912.9	5539.7
17.5°	9616.0	9497.1	9583.6	9745.8	9875.5	9832.3	9569.2	8740.2	7986.9	7522.0	5961.3
20°	9918.8	9850.3	9893.5	10081.0	10178.3	10423.4	10286.4	9518.7	8653.7	8163.5	6458.7
22.5°	10783.8	10682.9	10542.3	10571.1	10607.2	10780.2	10812.6	10372.9	9428.6	8909.6	6930.9
25°	11850.6	11756.9	11591.1	11421.7	11317.2	11284.8	11396.5	11043.3	10171.1	9634.0	7439.1
27.5°	13025.6	12867.0	12762.5	12412.9	12131.7	12088.5	12034.4	11843.4	11050.5	10470.2	8012.1
30°	14168.1	14042.0	13901.4	13342.8	13050.8	13004.0	12737.2	12791.3	12005.6	11360.4	8660.9
32.5°	15033.1	15043.9	14723.2	14301.5	14027.6	13778.9	13681.5	13836.5	13231.0	12712.0	9385.3
35°	15732.3	15764.8	15458.4	15076.4	14780.8	14953.8	14910.6	14982.7	14694.3	14060.0	10228.7
37.5°	16413.5	16251.3	15923.4	15739.5	15584.6	15869.3	16236.9	16298.2	16352.3	15606.2	11209.1
40°	16525.3	16539.7	16348.7	16478.4	16283.8	16712.7	17566.9	17487.6	17707.4	17055.1	12272.3
42.5°	16366.7	16399.1	16474.8	16658.6	17127.2	17642.6	18911.2	18586.9	18853.6	18273.3	13306.7
45°	16107.2	15973.8	16067.5	16766.7	17577.7	18723.8	20140.3	19888.0	19801.5	19314.9	14539.3
47.5°	14867.3	15004.3	15296.2	16157.6	17375.9	18911.2	21012.5	20954.8	21214.3	20871.9	15660.3
50°	13148.1	13094.1	13656.3	14625.9	16197.3	18543.6	20965.6	21488.2	22046.9	21571.1	16161.2
52.5°	9846.7	10135.0	10618.0	11821.8	14063.6	16539.7	19942.0	20814.3	21268.4	21167.5	15757.6
55°	6224.5	6311.0	6602.9	8033.8	10052.1	13274.3	17094.7	19116.7	19927.6	20306.1	15386.3
57.5°	3023.9	2861.7	3218.6	4368.3	5806.4	8927.6	13184.2	16651.4	18413.9	19098.7	14579.0
60°	1578.6	1639.9	1780.5	2191.4	3002.3	4635.0	8217.6	11097.3	13789.7	14842.1	11050.5
62.5°	1308.3	1330.0	1423.7	1629.1	1996.7	2667.1	4195.3	5409.9	7031.8	7979.7	6285.7
65°	1110.1	1120.9	1221.8	1358.8	1593.1	1877.8	2158.9	2259.8	2735.6	2807.7	2234.6
67.5°	926.3	937.1	1045.2	1175.0	1326.3	1402.0	1474.1	1466.9	1521.0	1499.3	1495.7
70°	713.6	724.4	836.2	973.1	1048.8	1005.6	1229.0	1279.5	1301.1	1319.1	1348.0
72.5°	515.4	537.0	623.5	720.8	681.2	782.1	1012.8	1088.5	1117.3	1128.1	1164.2
75°	374.8	382.0	403.7	374.8	432.5	544.2	713.6	807.3	843.4	854.2	908.3
77.5°	165.8	169.4	173.0	216.3	277.5	338.8	425.3	501.0	551.4	565.9	580.3
80°	86.5	90.1	111.7	147.8	198.2	248.7	310.0	353.2	385.6	389.3	403.7
82.5°	54.1	57.7	79.3	104.5	140.6	183.8	227.1	263.1	288.3	291.9	295.5
85°	25.2	32.4	46.9	64.9	93.7	118.9	122.5	104.5	111.7	115.3	108.1
87.5°	7.2	10.8	14.4	10.8	14.4	14.4	18.0	21.6	21.6	21.6	25.2
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: P531908

CATALOG NUMBER: GALN-SA7B-727-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7	4054.7
2.5°	4119.6	4087.2	3961.0	3914.2	3791.6	3813.2	3748.4	3744.8	3730.3	3726.7	3723.1
5°	4220.5	4119.6	3968.2	3852.9	3784.4	3777.2	3730.3	3730.3	3744.8	3755.6	3730.3
7.5°	4386.3	4271.0	4015.1	3907.0	3845.7	3834.9	3802.4	3777.2	3809.6	3798.8	3770.0
10°	4577.3	4375.5	4105.2	4011.5	3910.6	3885.3	3885.3	3896.1	3842.1	3860.1	3831.3
12.5°	4790.0	4519.7	4220.5	4112.4	3993.5	3979.0	3971.8	3892.5	3921.4	3907.0	3834.9
15°	5060.3	4685.5	4368.3	4184.5	4083.6	4018.7	3925.0	3910.6	3892.5	3856.5	3824.1
17.5°	5352.2	4865.7	4436.8	4206.1	4054.7	4007.9	3935.8	3860.1	3806.0	3813.2	3788.0
20°	5600.9	5031.5	4462.0	4227.7	4033.1	3943.0	3831.3	3784.4	3726.7	3723.1	3719.5
22.5°	5896.5	5254.9	4498.0	4170.1	3968.2	3874.5	3798.8	3715.9	3676.3	3625.8	3651.1
25°	6249.7	5341.4	4505.3	4137.6	3921.4	3755.6	3715.9	3625.8	3611.4	3539.3	3553.7
27.5°	6505.6	5388.3	4447.6	4036.7	3813.2	3687.1	3615.0	3550.1	3524.9	3470.8	3456.4
30°	6848.0	5460.4	4325.0	3910.6	3705.1	3564.6	3521.3	3506.9	3434.8	3377.1	3369.9
32.5°	7237.2	5507.2	4245.7	3780.8	3593.4	3485.3	3506.9	3438.4	3348.3	3297.8	3283.4
35°	7547.2	5525.2	4047.5	3633.0	3517.7	3449.2	3424.0	3409.6	3279.8	3233.0	3196.9
37.5°	8019.3	5485.6	3881.7	3528.5	3434.8	3409.6	3387.9	3290.6	3142.9	3074.4	3023.9
40°	8570.8	5474.8	3669.1	3380.7	3355.5	3384.3	3319.5	3168.1	2962.7	2887.0	2850.9
42.5°	9100.6	5550.5	3535.7	3301.4	3269.0	3279.8	3189.7	2962.7	2861.7	2818.5	2760.8
45°	9987.2	5709.1	3315.9	3178.9	3164.5	3157.3	3049.2	2811.3	2753.6	2699.5	2688.7
47.5°	10787.4	5604.5	3175.3	3052.8	3067.2	3027.5	2796.9	2721.2	2656.3	2602.2	2584.2
50°	10834.2	5355.8	2977.1	2955.4	2959.0	2890.6	2670.7	2620.3	2537.4	2501.3	2476.1
52.5°	10589.1	4948.6	2793.3	2800.5	2811.3	2699.5	2515.7	2479.7	2411.2	2360.8	2346.3
55°	9900.7	4314.2	2613.0	2641.9	2670.7	2458.1	2400.4	2310.3	2256.2	2184.1	2187.8
57.5°	8722.2	3474.5	2360.8	2407.6	2468.9	2234.6	2191.4	2079.6	2000.3	1942.7	1935.5
60°	5846.0	2472.5	1982.3	2000.3	2137.3	2043.6	2040.0	1928.2	1820.1	1769.7	1740.8
62.5°	3449.2	1888.6	1712.0	1694.0	1690.4	1744.4	1834.5	1794.9	1654.3	1557.0	1585.8
65°	1805.7	1632.7	1593.1	1531.8	1495.7	1481.3	1549.8	1567.8	1474.1	1369.6	1362.4
67.5°	1517.4	1517.4	1484.9	1463.3	1412.8	1351.6	1308.3	1250.7	1236.2	1207.4	1171.4
70°	1380.4	1416.5	1405.6	1355.2	1311.9	1243.4	1131.7	1038.0	947.9	915.5	937.1
72.5°	1203.8	1239.8	1239.8	1214.6	1156.9	1052.4	944.3	836.2	760.5	702.8	695.6
75°	926.3	944.3	987.6	958.7	883.0	818.2	706.4	594.7	522.6	468.5	457.7
77.5°	591.1	619.9	619.9	616.3	562.3	501.0	428.9	349.6	295.5	255.9	245.1
80°	392.9	410.9	425.3	410.9	374.8	328.0	273.9	219.9	180.2	147.8	140.6
82.5°	288.3	310.0	320.8	306.4	270.3	234.3	194.6	155.0	115.3	90.1	82.9
85°	111.7	115.3	129.8	155.0	151.4	147.8	118.9	86.5	64.9	46.9	43.3
87.5°	28.8	25.2	28.8	28.8	25.2	21.6	21.6	21.6	21.6	10.8	14.4
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)