

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: P530723

Luminaire Tested: **GALN-SA6A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16918 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

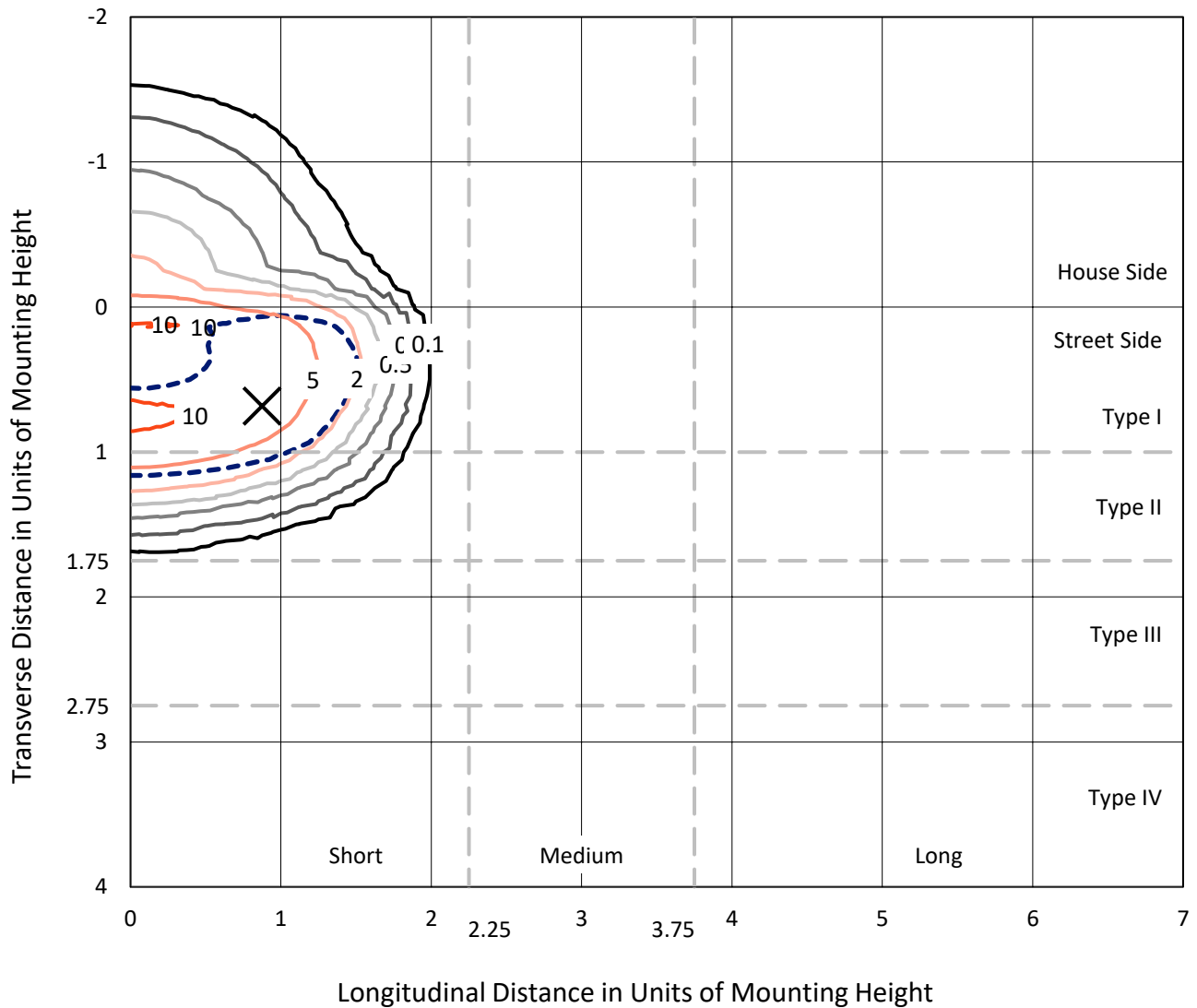
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530723  
 CATALOG NUMBER: GALN-SA6A-727-U-AFL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

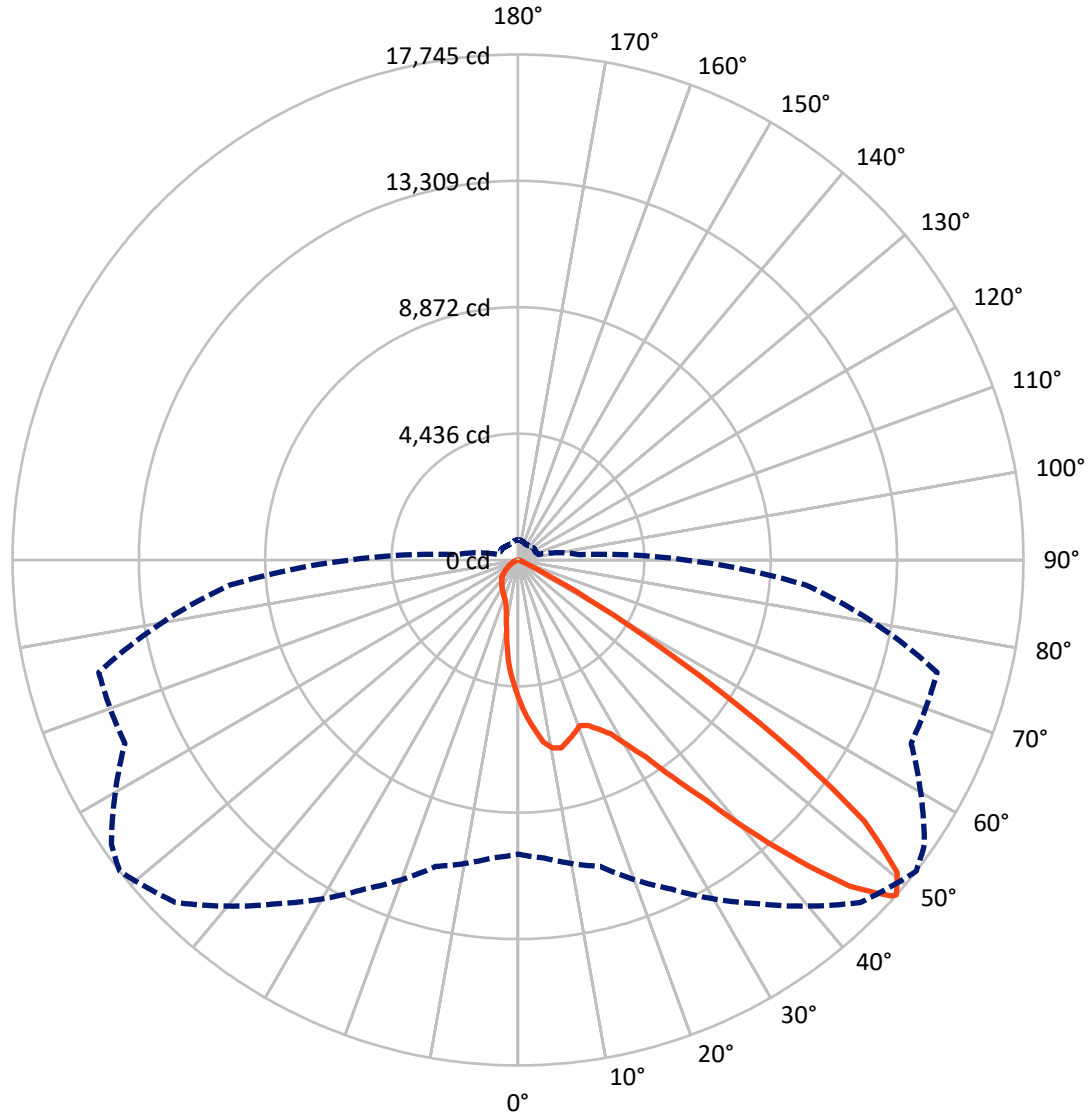
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P530723  
CATALOG NUMBER: GALN-SA6A-727-U-AFL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P530723  
 CATALOG NUMBER: GALN-SA6A-727-U-AFL-GRSBK

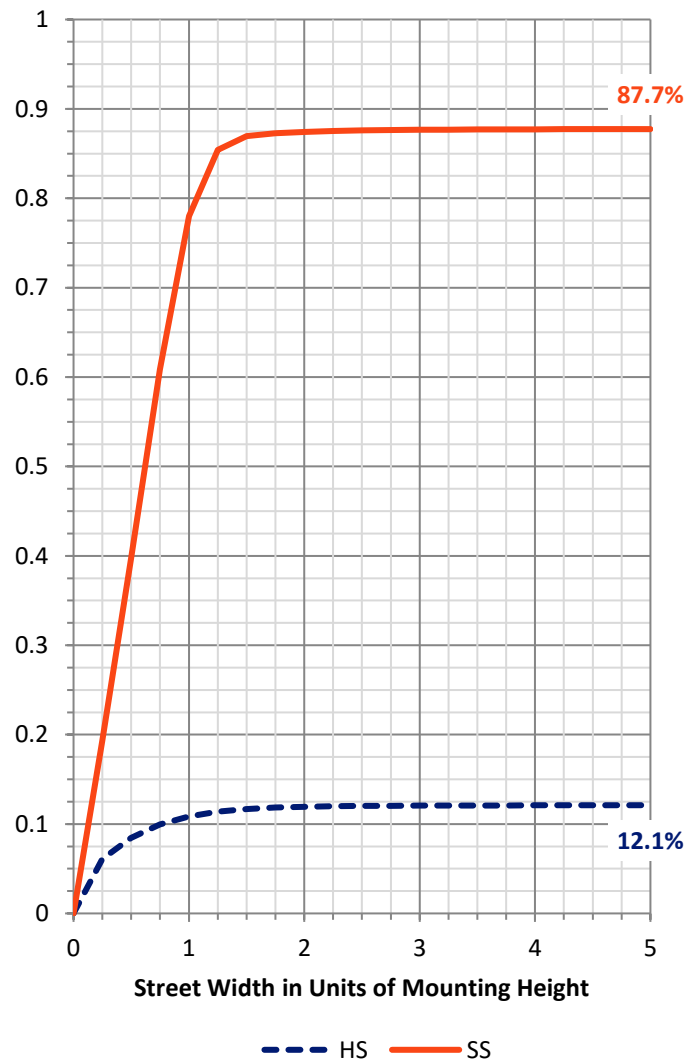
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2059.9	0.0	2059.9
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	14858.1	0.0	14858.1
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	16918.0	0.0	16918.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.2	2.6
10°-20°	1168.6	6.9
20°-30°	1995.3	11.8
30°-40°	3674.4	21.7
40°-50°	5706.3	33.7
50°-60°	3434.3	20.3
60°-70°	397.2	2.3
70°-80°	76.9	0.5
80°-90°	17.8	0.1
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°	16918.0	100.0
0°-180°	16918.0	100.0



REPORT NUMBER: P530723

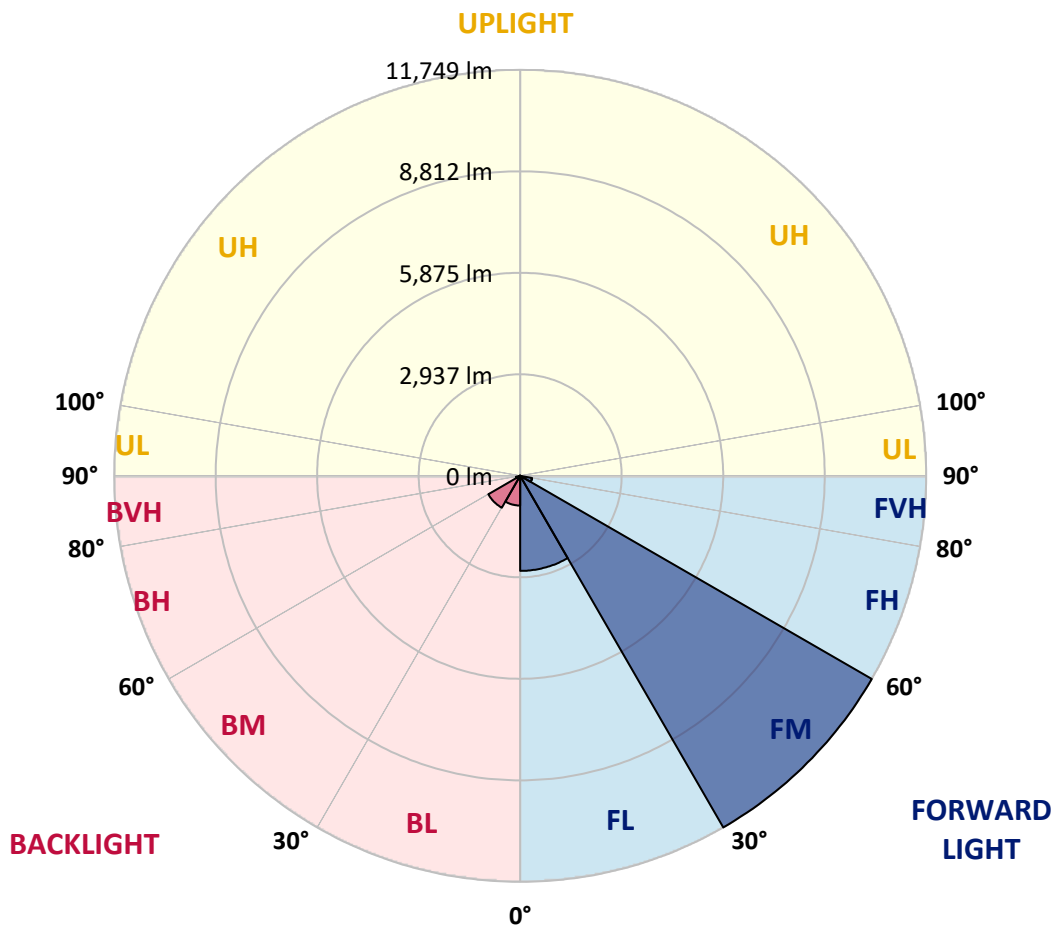
CATALOG NUMBER: GALN-SA6A-727-U-AFL-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2750.6	16.3			
FM (30°-60°)	11749.2	69.4			
FH (60°-80°)	349.8	2.1			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	860.5	5.1	B2/1000		
BM (30°-60°)	1065.8	6.3	B2/2500		
BH (60°-80°)	124.3	0.7	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P530723

CATALOG NUMBER: GALN-SA6A-727-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6
2.5°	5921.5	5785.8	5798.1	5709.4	5657.6	5573.7	5460.3	5438.1	5314.8	5147.1	4976.9
5°	6454.2	6422.1	6464.0	6335.8	6340.7	6202.6	5936.3	5941.2	5657.6	5383.8	5119.9
7.5°	6488.7	6414.7	6456.6	6570.1	6636.7	6612.0	6461.6	6330.9	6062.0	5660.0	5275.3
10°	5810.5	5951.1	5995.4	6182.9	6449.2	6730.4	6713.1	6720.5	6496.1	5970.8	5408.5
12.5°	5403.5	5309.8	5460.3	5573.7	5975.7	6520.8	6769.9	6824.1	6841.4	6271.7	5541.7
15°	5218.6	5218.6	5243.2	5275.3	5566.3	6069.4	6577.5	6735.3	7107.7	6666.3	5751.3
17.5°	5334.5	5329.6	5364.1	5297.5	5406.0	5793.2	6399.9	6579.9	7406.1	7053.5	5916.5
20°	5687.2	5704.4	5682.2	5489.9	5497.3	5788.3	6202.6	6486.2	7608.4	7388.9	6136.0
22.5°	6178.0	6187.8	6062.0	5852.4	5790.8	5933.8	6316.1	6533.1	7771.1	7790.9	6202.6
25°	6745.2	6705.7	6681.1	6385.1	6197.7	6321.0	6572.6	6698.3	7872.3	8136.2	6392.5
27.5°	7531.9	7453.0	7302.6	7038.7	6900.6	6725.5	6905.5	7112.7	8160.8	8619.5	6599.7
30°	8693.5	8624.5	8331.0	7990.6	7628.1	7455.5	7512.2	7625.6	8681.2	9179.4	6873.4
32.5°	10442.1	10296.6	9872.4	9223.8	8730.5	8254.5	8239.7	8360.6	9147.3	9953.8	7199.0
35°	12368.2	12323.8	11699.9	11031.5	10077.1	9342.1	9354.5	9418.6	10040.1	10969.9	7625.6
37.5°	13648.2	13892.4	13495.3	12777.6	11976.1	10925.5	10659.1	10681.3	11265.8	12173.4	8395.1
40°	14637.2	14430.0	14476.9	14309.2	13761.7	13046.5	12457.0	12341.1	12683.9	13505.2	9159.6
42.5°	14205.6	14215.5	14504.0	14901.1	15036.7	14984.9	14383.2	14163.7	13897.3	14595.3	9887.2
45°	12987.3	13241.3	13616.2	14666.8	15589.2	16454.8	16336.4	15971.4	14735.8	15458.4	10306.5
47.5°	11043.9	11034.0	11648.1	13014.4	15063.8	17091.1	17628.7	17372.3	15330.2	15362.3	10220.1
48°	10326.2	10503.8	11137.6	12745.6	14730.9	16997.4	17744.7	17421.6	15229.1	15234.0	10146.1
50°	7633.0	7601.0	8390.2	10363.2	13157.4	15971.4	17256.3	17507.9	15226.6	14585.4	9628.2
52.5°	4032.3	4170.4	4745.1	6515.8	9302.7	13071.1	15221.7	15613.8	14689.0	13524.9	8883.4
55°	1714.0	1548.8	1990.3	2942.2	5233.4	8733.0	11167.2	12040.2	12420.0	11968.7	7771.1
57.5°	611.6	668.4	769.5	1107.3	2199.9	4779.6	6658.9	7337.1	8604.7	8782.3	5295.0
60°	392.1	399.5	431.6	508.0	826.2	1842.3	3159.3	3699.4	4274.0	4412.1	2471.2
62.5°	303.3	305.8	320.6	332.9	392.1	715.2	1186.3	1405.8	1460.0	1255.3	648.6
65°	254.0	256.5	261.4	261.4	278.7	335.4	414.3	456.3	443.9	439.0	367.5
67.5°	194.8	199.8	209.6	209.6	219.5	204.7	229.4	244.2	276.2	335.4	313.2
70°	152.9	155.4	162.8	167.7	167.7	148.0	165.2	180.0	202.2	249.1	246.6
72.5°	118.4	123.3	128.2	128.2	120.8	101.1	118.4	130.7	145.5	172.6	167.7
75°	91.3	91.3	93.7	76.5	59.2	51.8	71.5	86.3	108.5	113.4	93.7
77.5°	24.7	27.1	24.7	22.2	24.7	37.0	46.9	54.3	69.1	69.1	61.7
80°	0.0	2.5	7.4	14.8	24.7	34.5	41.9	46.9	54.3	59.2	56.7
82.5°	0.0	2.5	7.4	14.8	22.2	27.1	37.0	39.5	44.4	51.8	51.8
85°	0.0	2.5	4.9	9.9	14.8	17.3	17.3	14.8	14.8	12.3	9.9
87.5°	0.0	0.0	2.5	4.9	4.9	7.4	7.4	7.4	7.4	7.4	7.4
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: P530723

CATALOG NUMBER: GALN-SA6A-727-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6
2.5°	4910.3	4833.8	4717.9	4535.4	4360.3	4246.9	4138.4	4017.5	3950.9	3946.0	3909.0
5°	4969.5	4796.9	4520.6	4207.4	3872.0	3583.5	3292.4	3102.5	2932.4	2838.7	2821.4
7.5°	5001.6	4777.1	4330.7	3805.4	3233.3	2762.2	2436.7	2197.4	2103.7	2034.7	2032.2
10°	5068.1	4742.6	4047.1	3272.7	2564.9	2088.9	1864.5	1756.0	1704.2	1684.4	1654.9
12.5°	5117.5	4678.5	3756.1	2725.2	2027.3	1731.3	1632.7	1608.0	1610.5	1620.3	1608.0
15°	5186.5	4621.7	3364.0	2236.9	1701.7	1558.7	1558.7	1563.6	1598.1	1603.1	1600.6
17.5°	5181.6	4510.8	2959.5	1842.3	1504.4	1484.7	1492.1	1538.9	1561.1	1568.5	1551.3
20°	5240.8	4407.2	2542.7	1573.5	1393.4	1423.0	1472.4	1484.7	1511.8	1516.7	1497.0
22.5°	5223.5	4148.2	2155.5	1361.4	1309.6	1366.3	1415.6	1430.4	1423.0	1408.2	1405.8
25°	5191.5	3926.3	1800.4	1220.8	1247.9	1309.6	1356.4	1329.3	1314.5	1317.0	1319.4
27.5°	5134.7	3645.1	1506.9	1122.1	1164.1	1255.3	1252.9	1243.0	1257.8	1245.5	1257.8
30°	5124.9	3364.0	1265.2	1033.4	1102.4	1169.0	1173.9	1191.2	1208.5	1186.3	1208.5
32.5°	5139.7	3055.7	1092.5	979.1	1065.4	1067.9	1122.1	1139.4	1127.1	1077.8	1082.7
35°	5253.1	2818.9	966.8	949.5	1006.2	1008.7	1060.5	1038.3	984.0	954.4	971.7
37.5°	5492.3	2621.6	907.6	922.4	927.3	959.4	961.8	917.4	922.4	919.9	929.8
40°	5798.1	2471.2	865.7	897.7	892.8	915.0	826.2	850.9	873.1	880.5	885.4
42.5°	6007.8	2362.7	838.5	858.3	848.4	808.9	759.6	784.3	801.5	828.7	833.6
45°	6101.5	2276.3	806.5	789.2	789.2	717.7	697.9	702.9	742.3	771.9	767.0
47.5°	5948.6	2192.5	749.7	697.9	715.2	656.0	633.8	633.8	675.8	712.7	705.3
48°	5889.4	2158.0	752.2	678.2	690.5	646.2	624.0	619.0	665.9	700.4	700.4
50°	5595.9	2029.7	688.1	624.0	599.3	594.4	579.6	584.5	614.1	646.2	646.2
52.5°	5023.7	1753.5	582.0	535.2	490.8	520.4	527.8	517.9	532.7	562.3	559.8
55°	4192.6	1346.6	466.1	443.9	409.4	441.5	456.3	443.9	429.1	451.3	451.3
57.5°	2685.7	725.1	372.4	377.3	342.8	374.9	387.2	357.6	330.5	347.7	345.3
60°	1210.9	434.1	305.8	298.4	276.2	313.2	332.9	298.4	261.4	273.8	286.1
62.5°	453.8	308.3	231.8	226.9	222.0	256.5	266.4	239.2	202.2	209.6	212.1
65°	332.9	271.3	185.0	167.7	177.6	202.2	197.3	170.2	145.5	145.5	150.4
67.5°	283.6	236.8	150.4	130.7	130.7	133.2	123.3	108.5	101.1	106.0	111.0
70°	222.0	187.4	118.4	101.1	91.3	81.4	71.5	69.1	61.7	69.1	66.6
72.5°	143.0	125.8	91.3	76.5	69.1	56.7	46.9	44.4	37.0	34.5	34.5
75°	76.5	76.5	71.5	61.7	54.3	44.4	37.0	29.6	19.7	14.8	14.8
77.5°	54.3	59.2	64.1	59.2	49.3	37.0	29.6	19.7	9.9	4.9	4.9
80°	51.8	59.2	64.1	56.7	49.3	37.0	27.1	14.8	7.4	2.5	2.5
82.5°	46.9	54.3	59.2	51.8	44.4	32.1	24.7	14.8	7.4	2.5	2.5
85°	9.9	12.3	14.8	14.8	17.3	22.2	17.3	12.3	4.9	2.5	2.5
87.5°	7.4	7.4	7.4	7.4	7.4	7.4	4.9	4.9	2.5	2.5	2.5
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)