

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: P452427

Luminaire Tested: **GALN-SA3B-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452427
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-SA3B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12609 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

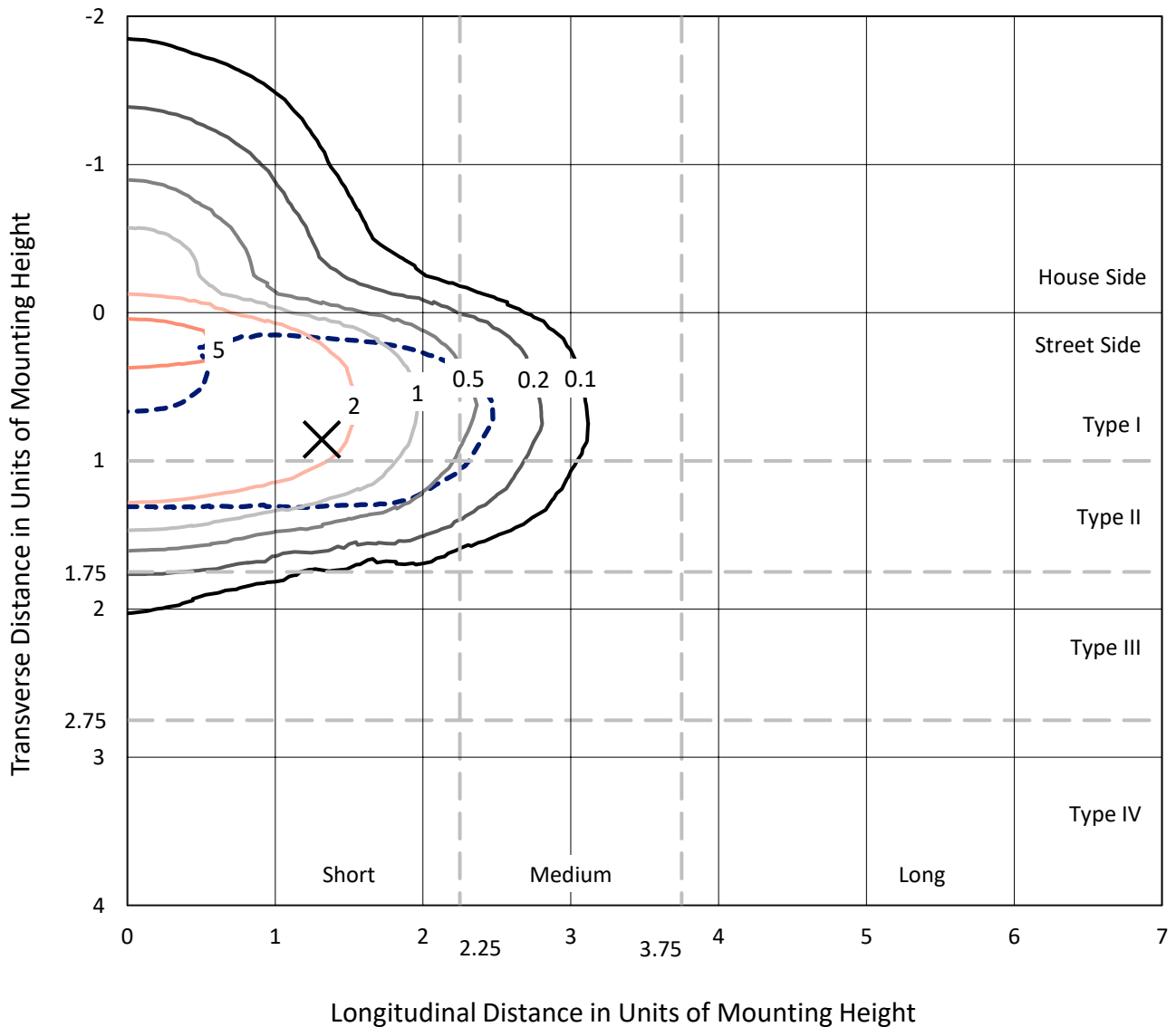
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452427
 CATALOG NUMBER: GALN-SA3B-827-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

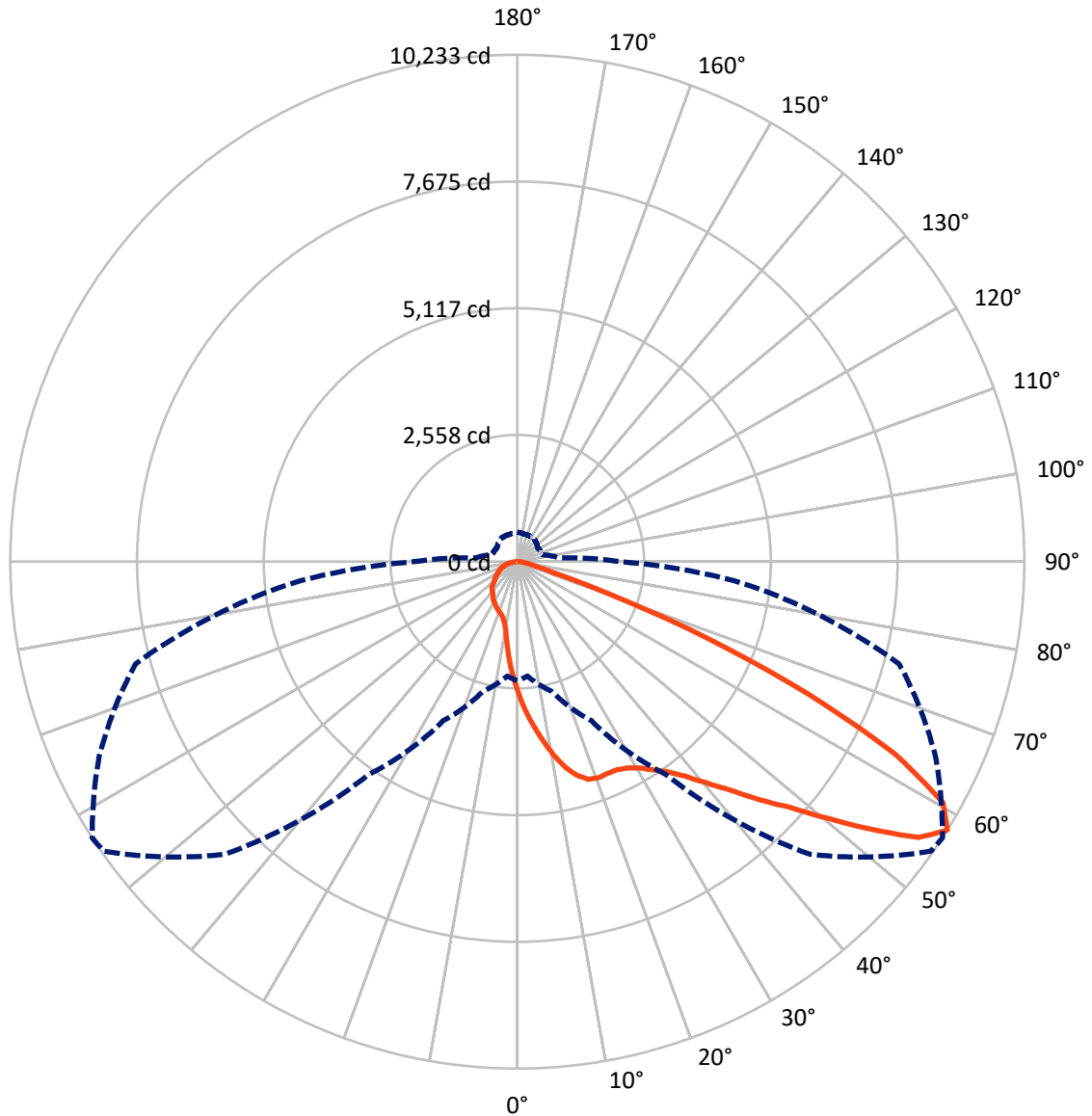
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P452427
CATALOG NUMBER: GALN-SA3B-827-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452427

CATALOG NUMBER: GALN-SA3B-827-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1917.5	0.0	1917.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	10691.5	0.0	10691.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	12609.0	0.0	12609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	2.0
10°-20°	750.3	6.0
20°-30°	1245.9	9.9
30°-40°	1876.7	14.9
40°-50°	2817.7	22.3
50°-60°	3158.2	25.0
60°-70°	1848.4	14.7
70°-80°	546.7	4.3
80°-90°	110.5	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°	12609.0	100.0
0°-180°	12609.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452427

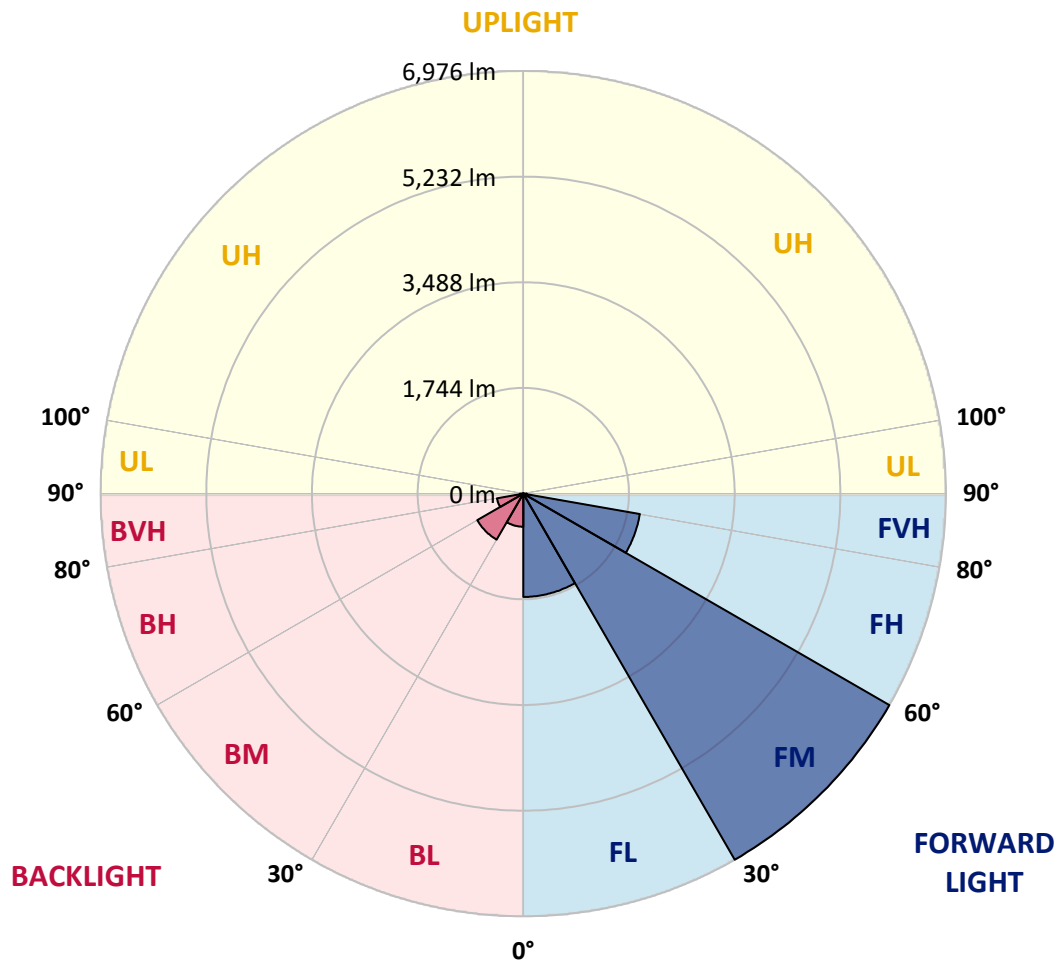
CATALOG NUMBER: GALN-SA3B-827-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1704.4	13.5			
FM	(30°-60°)	6975.9	55.3			
FH	(60°-80°)	1953.9	15.5			G2/5000
FVH	(80°-90°)	57.3	0.5			G1/100
BL	(0°-30°)	546.4	4.3	B2/1000		
BM	(30°-60°)	876.7	7.0	B1/1000		
BH	(60°-80°)	441.2	3.5	B1/500		G1/500
BVH	(80°-90°)	53.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P452427

CATALOG NUMBER: GALN-SA3B-827-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0
2.5°	3291.6	3255.7	3227.4	3202.6	3170.1	3082.5	2994.8	2993.4	2923.7	2816.0	2705.6
5°	3827.9	3779.6	3785.8	3708.5	3631.2	3504.2	3318.5	3308.8	3160.4	2958.9	2753.9
7.5°	4177.1	4177.8	4158.5	4114.3	4030.8	3886.5	3676.0	3628.4	3422.0	3116.3	2809.1
10°	4159.2	4177.8	4210.3	4248.2	4273.7	4202.7	4010.8	3952.8	3684.3	3306.8	2870.6
12.5°	3920.4	3949.4	3995.6	4090.8	4244.8	4362.1	4296.5	4249.6	3988.0	3496.6	2938.2
15°	3771.3	3788.5	3814.1	3878.3	4043.9	4324.8	4494.6	4469.8	4274.4	3711.2	3014.1
17.5°	3725.7	3743.0	3751.3	3790.6	3908.6	4196.4	4572.6	4616.8	4528.4	3908.6	3090.7
20°	3771.3	3779.6	3779.6	3803.0	3895.5	4121.2	4569.2	4658.2	4736.9	4145.4	3162.5
22.5°	3890.7	3894.1	3889.3	3897.6	3966.6	4141.9	4536.7	4647.1	4905.3	4346.2	3218.4
25°	4084.6	4090.2	4058.4	4039.1	4089.5	4233.0	4554.7	4656.1	5037.1	4538.1	3255.7
27.5°	4304.8	4311.7	4273.1	4228.2	4251.7	4345.5	4625.1	4716.2	5135.8	4727.2	3279.2
30°	4574.7	4577.4	4512.6	4458.7	4443.5	4513.3	4745.2	4830.1	5258.7	4950.1	3314.4
32.5°	4850.8	4871.5	4788.0	4712.0	4686.5	4707.9	4922.5	5004.7	5405.0	5189.7	3371.0
35°	5226.2	5229.7	5129.6	5037.1	4952.9	4980.5	5149.6	5209.0	5607.2	5466.4	3451.0
37.5°	5694.9	5726.6	5588.6	5416.0	5312.5	5272.5	5424.3	5489.2	5890.9	5806.0	3571.8
40°	6215.3	6227.0	6109.0	6001.3	5812.2	5696.3	5801.2	5871.6	6240.8	6211.2	3711.9
42.5°	6542.5	6568.0	6577.0	6565.9	6423.7	6229.1	6269.1	6302.3	6655.0	6591.5	3855.5
45°	6652.9	6690.8	6819.2	7091.2	7106.4	6914.5	6821.3	6853.0	7106.4	6975.2	3992.8
47.5°	6470.0	6534.9	6771.6	7329.3	7746.9	7761.4	7480.4	7410.7	7517.7	7293.4	4092.2
50°	5997.2	6011.0	6373.4	7180.9	8047.1	8571.0	8280.4	8150.6	7908.4	7528.8	4160.6
52.5°	5265.6	5281.4	5585.1	6491.4	7862.1	9136.9	9216.3	8984.4	8305.2	7711.7	4205.4
55°	3908.6	4000.4	4334.5	5210.4	6985.6	9083.8	9960.3	9828.5	8784.9	7856.6	4275.8
57.5°	2403.3	2319.1	2715.3	3544.9	5253.8	8353.6	10190.2	10233.0	9312.9	7978.1	4393.8
60°	1105.7	1122.3	1285.9	1828.4	3202.6	6534.9	9598.0	9868.6	9604.9	7973.9	4423.5
62.5°	762.0	746.8	705.4	802.7	1460.5	4132.9	8107.1	8565.4	9019.6	7726.2	4305.5
65°	681.2	666.0	586.0	559.1	670.9	1801.4	5893.7	6472.1	7594.3	7100.8	4011.5
67.5°	636.4	615.7	532.8	480.4	479.0	717.1	3475.2	4171.6	5632.8	6003.4	3475.9
70°	589.4	572.9	490.7	432.8	407.9	450.7	1527.4	1999.5	3657.4	4326.2	2707.7
72.5°	542.5	523.2	449.3	387.2	354.8	337.5	585.3	761.3	2066.5	2593.8	1659.9
75°	474.2	464.5	401.7	350.6	315.4	272.6	371.3	423.8	988.4	1191.3	833.1
77.5°	414.8	404.5	356.8	306.5	280.9	221.6	263.7	287.8	416.9	483.1	376.2
80°	303.7	314.0	300.9	270.6	250.5	173.9	177.4	197.4	247.8	274.0	229.8
82.5°	192.6	211.9	231.9	208.4	189.8	137.4	122.9	130.4	169.1	179.5	102.2
85°	80.8	82.1	134.6	127.0	108.4	81.4	73.9	78.0	90.4	94.6	47.6
87.5°	31.1	30.4	47.6	44.2	33.8	23.5	23.5	26.2	35.9	33.1	15.2
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: P452427
 CATALOG NUMBER: GALN-SA3B-827-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0
2.5°	2658.0	2609.0	2511.7	2390.9	2302.5	2203.1	2115.5	2052.7	2029.2	2018.2	1997.5
5°	2655.9	2559.3	2357.7	2146.5	1976.7	1802.8	1655.8	1560.6	1552.3	1488.8	1482.6
7.5°	2656.6	2508.9	2187.9	1877.4	1618.5	1440.5	1319.0	1287.2	1249.3	1239.6	1244.4
10°	2658.7	2444.7	2005.7	1610.9	1360.4	1243.7	1198.2	1185.8	1187.2	1191.3	1192.0
12.5°	2661.4	2382.6	1816.6	1408.7	1215.5	1167.1	1162.3	1173.3	1185.1	1194.1	1196.1
15°	2664.9	2311.5	1632.3	1245.8	1143.0	1138.8	1154.7	1173.3	1189.9	1203.0	1205.1
17.5°	2660.7	2228.7	1477.7	1145.7	1102.9	1123.0	1149.2	1172.7	1187.8	1200.3	1201.6
20°	2651.1	2136.2	1328.6	1075.3	1078.1	1110.5	1138.8	1160.9	1177.5	1183.7	1188.5
22.5°	2613.8	2025.8	1198.9	1020.8	1048.4	1093.3	1127.1	1140.2	1121.6	1108.5	1111.9
25°	2550.3	1882.2	1078.1	976.6	1021.5	1069.1	1103.6	1071.9	1056.7	1051.2	1053.9
27.5°	2470.9	1724.8	987.0	930.4	987.0	1042.2	1032.5	1027.0	1020.1	1011.2	1013.2
30°	2385.3	1570.9	909.7	894.5	949.7	981.5	985.6	994.6	987.0	973.2	978.7
32.5°	2306.0	1426.0	851.0	864.1	923.5	918.7	949.7	960.1	924.9	878.6	880.7
35°	2238.3	1291.4	806.8	834.5	878.6	880.7	911.8	875.9	837.9	815.8	817.2
37.5°	2187.3	1186.5	777.9	808.9	821.3	847.6	831.0	812.4	807.5	792.4	793.0
40°	2156.9	1094.7	759.2	788.9	786.8	804.8	751.6	770.3	777.2	772.3	773.0
42.5°	2126.5	1029.8	739.9	761.3	760.6	725.4	713.7	729.5	747.5	749.6	748.2
45°	2102.4	979.4	719.9	719.2	733.0	677.8	674.3	684.0	709.5	722.0	721.3
47.5°	2075.4	937.3	689.5	670.2	674.3	648.1	642.6	646.7	677.8	697.8	703.3
50°	2041.6	895.2	651.6	625.3	608.1	620.5	621.9	622.6	653.6	676.4	681.2
52.5°	2014.7	863.4	608.1	588.7	568.0	595.6	606.0	607.4	626.0	644.7	648.1
55°	2030.6	845.5	565.3	551.5	532.8	570.1	590.1	592.9	597.0	610.8	612.9
57.5°	2078.2	849.6	530.8	512.8	499.0	539.7	573.6	575.6	572.9	589.4	592.2
60°	2092.7	847.6	505.2	470.0	461.7	507.3	549.4	553.5	552.9	577.0	581.8
62.5°	2032.0	821.3	479.7	434.1	428.6	474.2	515.6	532.1	535.6	570.1	576.3
65°	1889.1	767.5	445.9	396.2	396.2	439.0	483.1	505.9	515.6	561.8	568.7
67.5°	1700.7	704.0	411.4	363.7	362.4	405.2	448.6	472.1	487.3	550.1	554.2
70°	1411.5	618.4	368.6	328.5	328.5	367.2	406.5	434.8	456.9	528.0	528.0
72.5°	967.0	514.2	316.8	288.5	289.2	325.1	365.1	396.9	423.1	483.8	485.2
75°	611.5	401.7	260.2	245.7	248.5	282.3	323.7	356.8	409.3	478.3	480.4
77.5°	325.1	282.3	207.1	203.6	207.1	238.1	284.4	329.9	410.7	414.8	407.9
80°	210.5	200.2	163.6	156.7	158.1	191.9	253.3	313.4	329.9	334.1	318.9
82.5°	114.6	127.0	116.0	109.1	109.1	149.8	216.0	249.2	236.7	196.7	187.7
85°	49.0	59.4	60.0	52.5	50.4	92.5	144.9	136.0	126.3	120.8	119.4
87.5°	13.8	19.3	19.3	14.5	11.0	25.5	29.0	8.3	0.0	0.7	1.4
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)