

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: P451354

Luminaire Tested: **GALN-SA2B-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451354  
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-SA2B-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 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: 9663 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

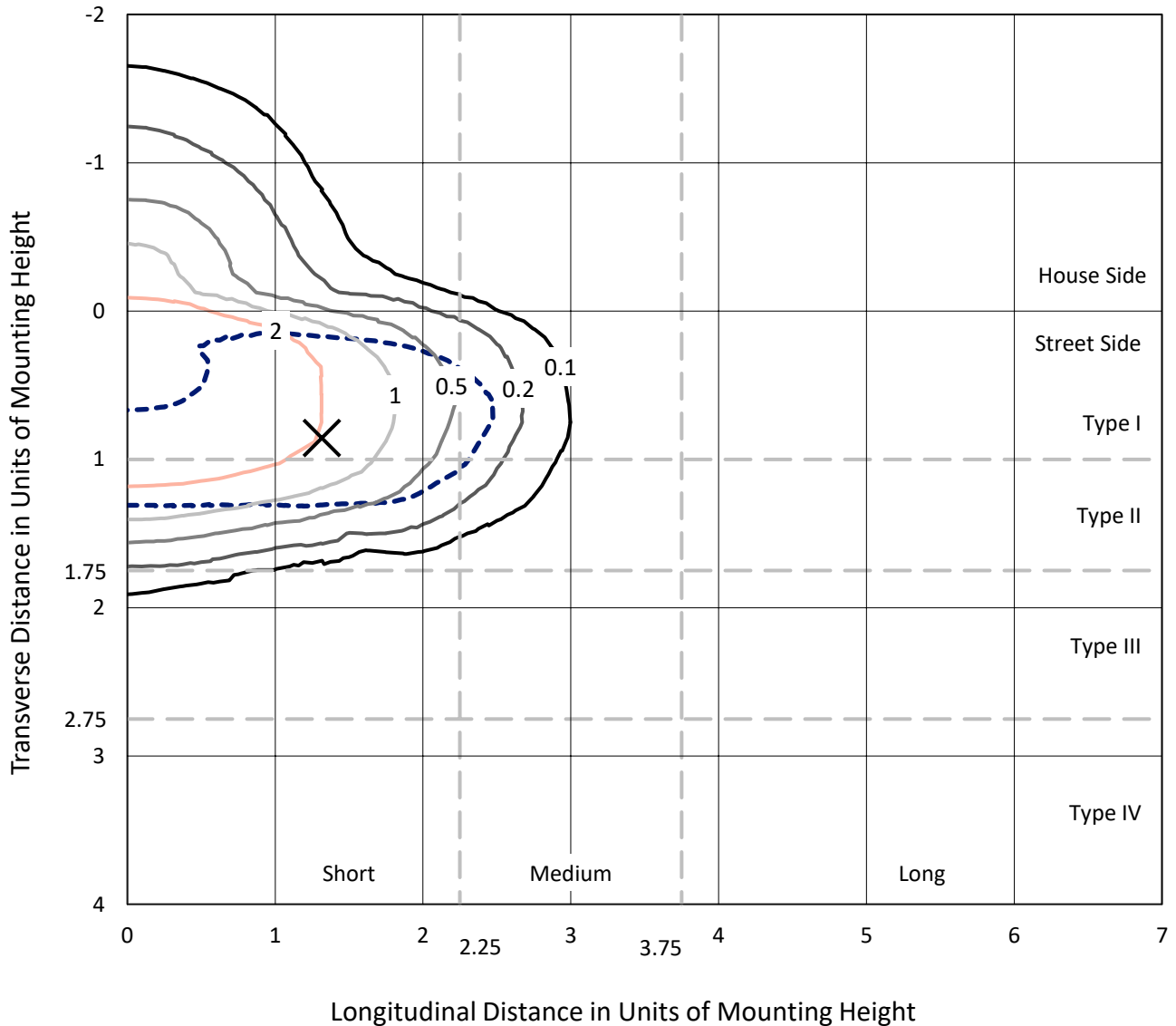
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451354  
 CATALOG NUMBER: GALN-SA2B-727-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

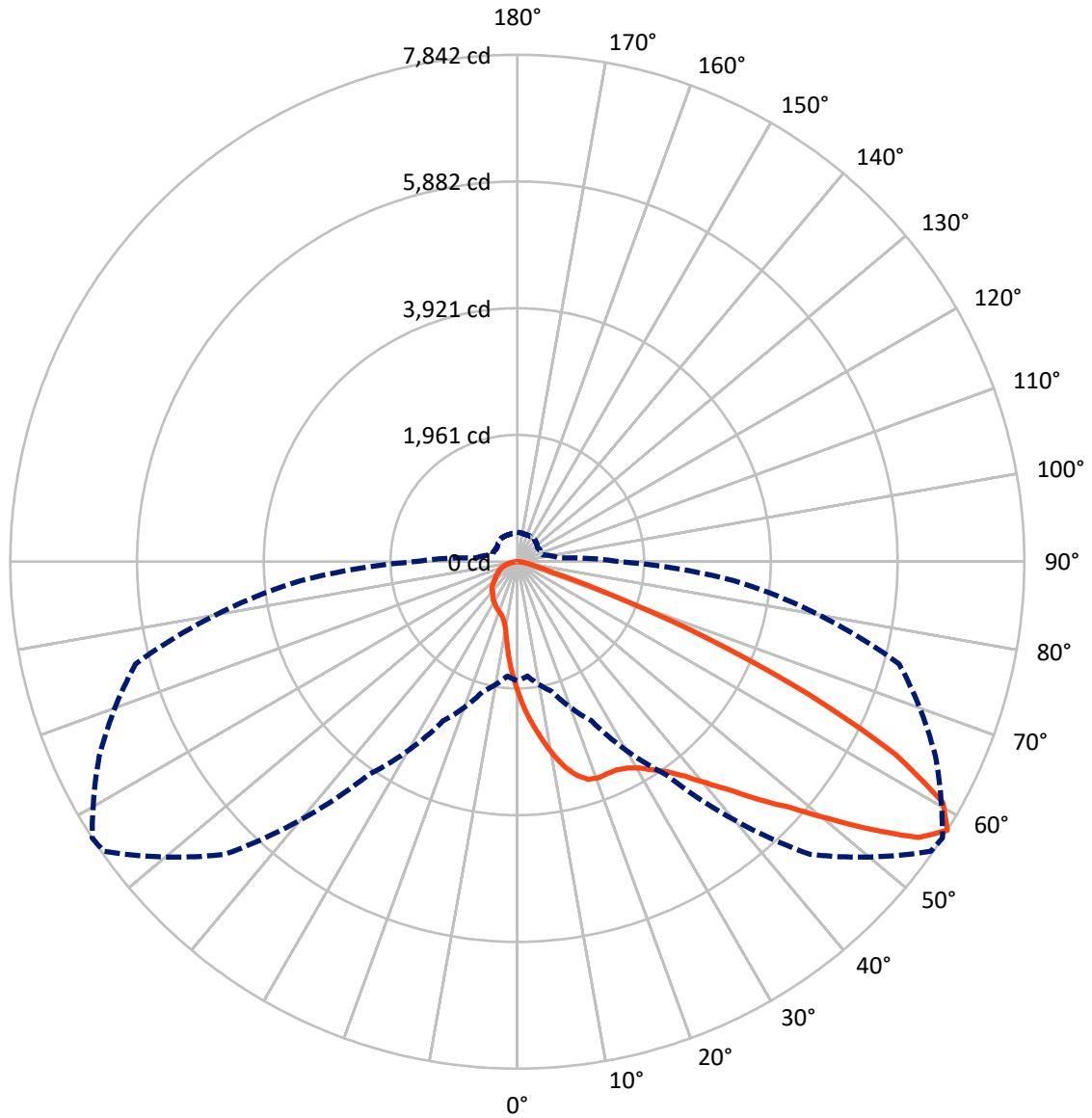
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P451354  
CATALOG NUMBER: GALN-SA2B-727-U-AFL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P451354

CATALOG NUMBER: GALN-SA2B-727-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1469.5	0.0	1469.5
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	8193.5	0.0	8193.5
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	9663.0	0.0	9663.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.1	2.0
10°-20°	575.0	6.0
20°-30°	954.8	9.9
30°-40°	1438.2	14.9
40°-50°	2159.3	22.3
50°-60°	2420.3	25.0
60°-70°	1416.5	14.7
70°-80°	419.0	4.3
80°-90°	84.7	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°	9663.0	100.0
0°-180°	9663.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451354

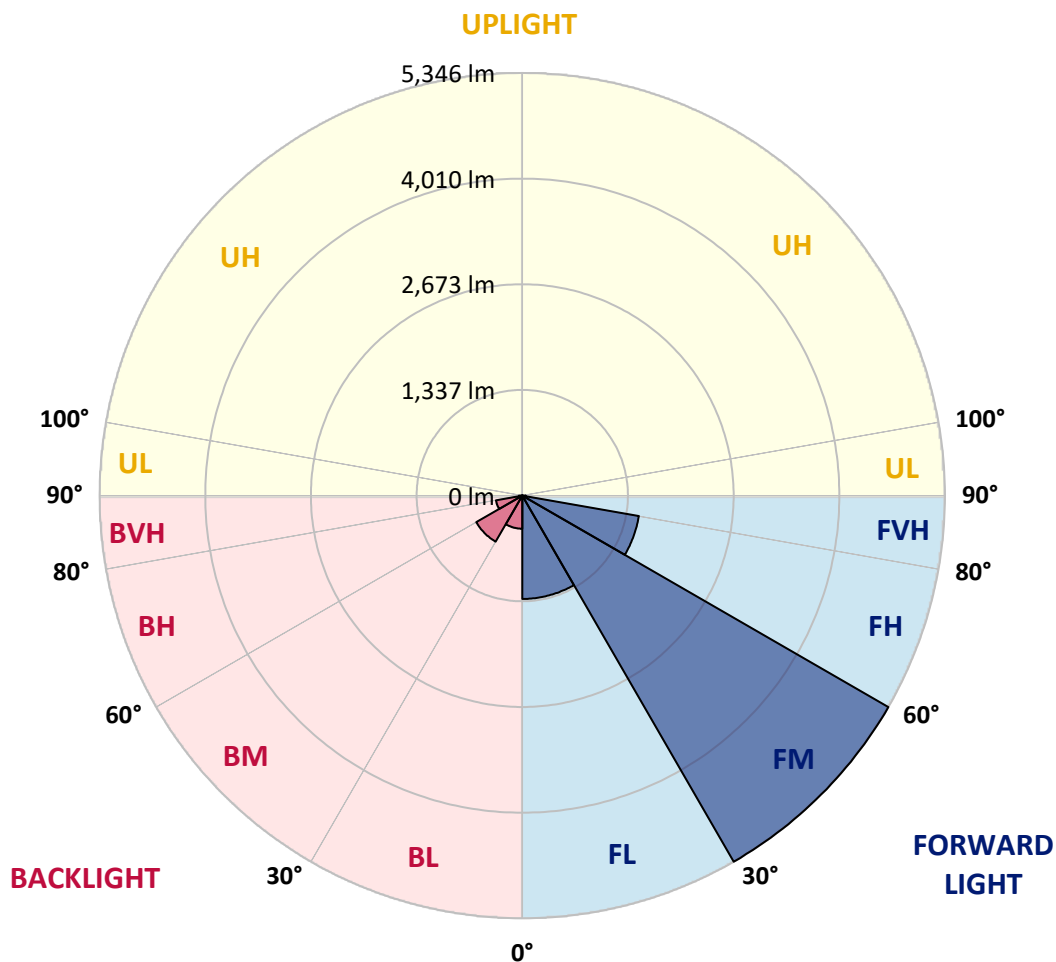
CATALOG NUMBER: GALN-SA2B-727-U-AFL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1306.2	13.5			
FM	(30°-60°)	5346.0	55.3			
FH	(60°-80°)	1497.4	15.5			G1/1800
FVH	(80°-90°)	43.9	0.5			G1/100
BL	(0°-30°)	418.7	4.3	B1/500		
BM	(30°-60°)	671.9	7.0	B1/1000		
BH	(60°-80°)	338.1	3.5	B1/500		G1/500
BVH	(80°-90°)	40.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P451354  
 CATALOG NUMBER: GALN-SA2B-727-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1
2.5°	2522.5	2495.0	2473.3	2454.3	2429.4	2362.3	2295.1	2294.0	2240.6	2158.1	2073.5
5°	2933.5	2896.5	2901.3	2842.0	2782.8	2685.4	2543.2	2535.8	2422.0	2267.6	2110.5
7.5°	3201.2	3201.7	3186.9	3153.0	3089.0	2978.5	2817.2	2780.7	2622.5	2388.2	2152.8
10°	3187.4	3201.7	3226.6	3255.6	3275.2	3220.7	3073.7	3029.3	2823.5	2534.2	2199.9
12.5°	3004.4	3026.6	3062.1	3135.0	3253.0	3342.9	3292.7	3256.7	3056.2	2679.6	2251.7
15°	2890.1	2903.4	2922.9	2972.1	3099.1	3314.4	3444.5	3425.4	3275.7	2844.1	2309.9
17.5°	2855.2	2868.5	2874.8	2905.0	2995.4	3216.0	3504.3	3538.1	3470.4	2995.4	2368.6
20°	2890.1	2896.5	2896.5	2914.5	2985.4	3158.3	3501.6	3569.8	3630.1	3176.8	2423.6
22.5°	2981.7	2984.3	2980.6	2986.9	3039.8	3174.2	3476.7	3561.4	3759.2	3330.8	2466.5
25°	3130.3	3134.5	3110.2	3095.4	3134.0	3244.0	3490.5	3568.3	3860.2	3477.8	2495.0
27.5°	3299.0	3304.3	3274.7	3240.3	3258.3	3330.2	3544.5	3614.3	3935.9	3622.7	2513.0
30°	3505.8	3508.0	3458.2	3417.0	3405.3	3458.8	3636.5	3701.5	4030.0	3793.6	2540.0
32.5°	3717.4	3733.3	3669.3	3611.1	3591.5	3607.9	3772.4	3835.4	4142.2	3977.1	2583.4
35°	4005.2	4007.8	3931.1	3860.2	3795.7	3816.9	3946.4	3991.9	4297.1	4189.2	2644.7
37.5°	4364.3	4388.6	4282.9	4150.6	4071.3	4040.6	4157.0	4206.7	4514.5	4449.5	2737.3
40°	4763.1	4772.1	4681.7	4599.2	4454.2	4365.4	4445.8	4499.7	4782.7	4760.0	2844.7
42.5°	5013.9	5033.4	5040.3	5031.8	4922.9	4773.7	4804.4	4829.8	5100.1	5051.4	2954.7
45°	5098.5	5127.6	5226.0	5434.4	5446.0	5299.0	5227.6	5251.9	5446.0	5345.5	3059.9
47.5°	4958.3	5008.0	5189.5	5616.9	5936.9	5948.0	5732.7	5679.3	5761.3	5589.3	3136.1
50°	4596.0	4606.6	4884.3	5503.1	6167.0	6568.4	6345.7	6246.3	6060.6	5769.7	3188.5
52.5°	4035.3	4047.5	4280.2	4974.7	6025.2	7002.2	7063.0	6885.3	6364.8	5909.9	3222.9
55°	2995.4	3065.8	3321.8	3993.0	5353.4	6961.4	7633.2	7532.2	6732.4	6021.0	3276.8
57.5°	1841.8	1777.3	2080.9	2716.7	4026.3	6401.8	7809.3	7842.1	7137.0	6114.1	3367.3
60°	847.4	860.1	985.4	1401.2	2454.3	5008.0	7355.5	7562.8	7360.8	6110.9	3390.0
62.5°	584.0	572.3	540.6	615.2	1119.2	3167.3	6213.0	6564.2	6912.2	5921.0	3299.6
65°	522.1	510.4	449.1	428.4	514.1	1380.5	4516.6	4959.9	5820.0	5441.8	3074.2
67.5°	487.7	471.8	408.3	368.1	367.1	549.6	2663.2	3196.9	4316.7	4600.8	2663.8
70°	451.7	439.0	376.1	331.6	312.6	345.4	1170.6	1532.3	2802.9	3315.4	2075.0
72.5°	415.7	400.9	344.3	296.7	271.9	258.7	448.5	583.4	1583.7	1987.8	1272.1
75°	363.4	356.0	307.8	268.7	241.7	208.9	284.6	324.8	757.4	913.0	638.4
77.5°	317.9	310.0	273.5	234.9	215.3	169.8	202.1	220.6	319.5	370.3	288.3
80°	232.7	240.7	230.6	207.3	192.0	133.3	135.9	151.3	189.9	210.0	176.1
82.5°	147.6	162.4	177.7	159.7	145.5	105.3	94.2	100.0	129.6	137.5	78.3
85°	61.9	62.9	103.1	97.3	83.0	62.4	56.6	59.8	69.3	72.5	36.5
87.5°	23.8	23.3	36.5	33.9	25.9	18.0	18.0	20.1	27.5	25.4	11.6
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: P451354  
 CATALOG NUMBER: GALN-SA2B-727-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1
2.5°	2037.0	1999.4	1924.8	1832.3	1764.6	1688.4	1621.2	1573.1	1555.1	1546.6	1530.8
5°	2035.4	1961.3	1806.9	1645.0	1514.9	1381.6	1268.9	1195.9	1189.6	1140.9	1136.2
7.5°	2035.9	1922.7	1676.8	1438.7	1240.4	1103.9	1010.8	986.5	957.4	950.0	953.7
10°	2037.5	1873.5	1537.1	1234.6	1042.5	953.2	918.2	908.7	909.8	913.0	913.5
12.5°	2039.6	1825.9	1392.2	1079.6	931.5	894.4	890.7	899.2	908.2	915.1	916.7
15°	2042.3	1771.4	1251.0	954.7	875.9	872.8	884.9	899.2	911.9	921.9	923.5
17.5°	2039.1	1708.0	1132.5	878.0	845.3	860.6	880.7	898.7	910.3	919.8	920.9
20°	2031.7	1637.1	1018.2	824.1	826.2	851.1	872.8	889.7	902.4	907.1	910.8
22.5°	2003.1	1552.4	918.8	782.3	803.5	837.8	863.8	873.8	859.5	849.5	852.1
25°	1954.4	1442.4	826.2	748.5	782.8	819.3	845.8	821.4	809.8	805.6	807.7
27.5°	1893.6	1321.8	756.4	713.0	756.4	798.7	791.3	787.1	781.8	774.9	776.5
30°	1828.0	1203.9	697.1	685.5	727.8	752.2	755.3	762.2	756.4	745.8	750.0
32.5°	1767.2	1092.8	652.2	662.2	707.7	704.0	727.8	735.8	708.8	673.3	674.9
35°	1715.4	989.7	618.3	639.5	673.3	674.9	698.7	671.2	642.1	625.2	626.3
37.5°	1676.2	909.3	596.1	619.9	629.4	649.5	636.8	622.6	618.9	607.2	607.8
40°	1652.9	838.9	581.8	604.6	603.0	616.7	576.0	590.3	595.6	591.9	592.4
42.5°	1629.7	789.2	567.0	583.4	582.9	555.9	546.9	559.1	572.8	574.4	573.4
45°	1611.2	750.6	551.7	551.2	561.7	519.4	516.8	524.2	543.8	553.3	552.7
47.5°	1590.5	718.3	528.4	513.6	516.8	496.7	492.4	495.6	519.4	534.8	539.0
50°	1564.6	686.0	499.3	479.2	466.0	475.5	476.6	477.1	500.9	518.4	522.1
52.5°	1544.0	661.7	466.0	451.2	435.3	456.5	464.4	465.5	479.8	494.0	496.7
55°	1556.2	648.0	433.2	422.6	408.3	436.9	452.2	454.4	457.5	468.1	469.7
57.5°	1592.6	651.1	406.8	393.0	382.4	413.6	439.6	441.1	439.0	451.7	453.8
60°	1603.8	649.5	387.2	360.2	353.9	388.8	421.0	424.2	423.7	442.2	445.9
62.5°	1557.2	629.4	367.6	332.7	328.5	363.4	395.1	407.8	410.5	436.9	441.7
65°	1447.7	588.2	341.7	303.6	303.6	336.4	370.3	387.7	395.1	430.6	435.8
67.5°	1303.3	539.5	315.3	278.8	277.7	310.5	343.8	361.8	373.4	421.6	424.7
70°	1081.7	473.9	282.5	251.8	251.8	281.4	311.5	333.2	350.2	404.6	404.6
72.5°	741.1	394.1	242.8	221.1	221.6	249.1	279.8	304.1	324.2	370.8	371.8
75°	468.6	307.8	199.4	188.3	190.4	216.3	248.1	273.5	313.7	366.6	368.1
77.5°	249.1	216.3	158.7	156.0	158.7	182.5	217.9	252.8	314.7	317.9	312.6
80°	161.3	153.4	125.4	120.1	121.1	147.0	194.1	240.1	252.8	256.0	244.4
82.5°	87.8	97.3	88.9	83.6	83.6	114.8	165.6	190.9	181.4	150.7	143.9
85°	37.6	45.5	46.0	40.2	38.6	70.9	111.1	104.2	96.8	92.6	91.5
87.5°	10.6	14.8	14.8	11.1	8.5	19.6	22.2	6.3	0.0	0.5	1.1
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)