

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: P452302

Luminaire Tested: **GALN-SA3B-727-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14537 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

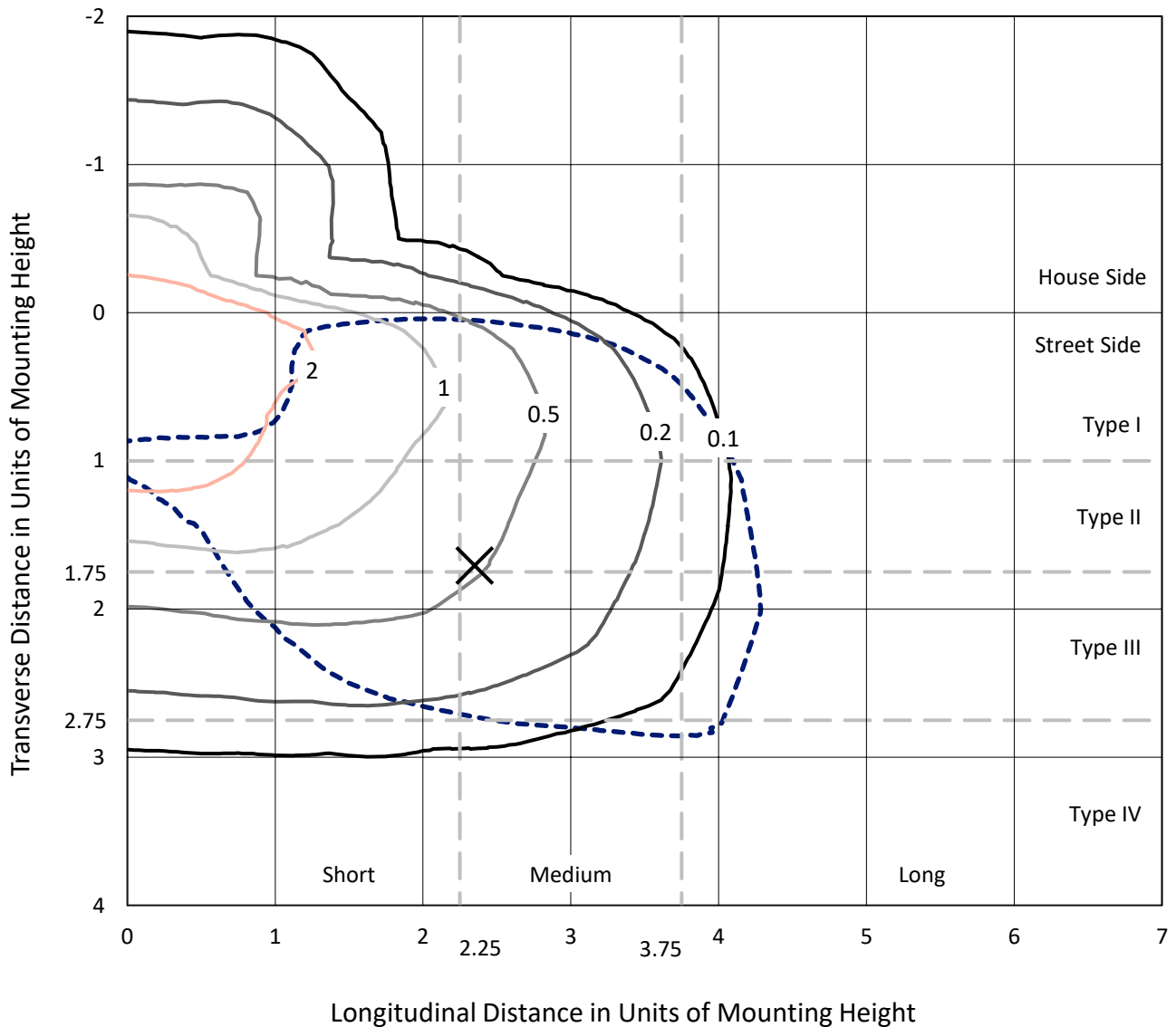
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

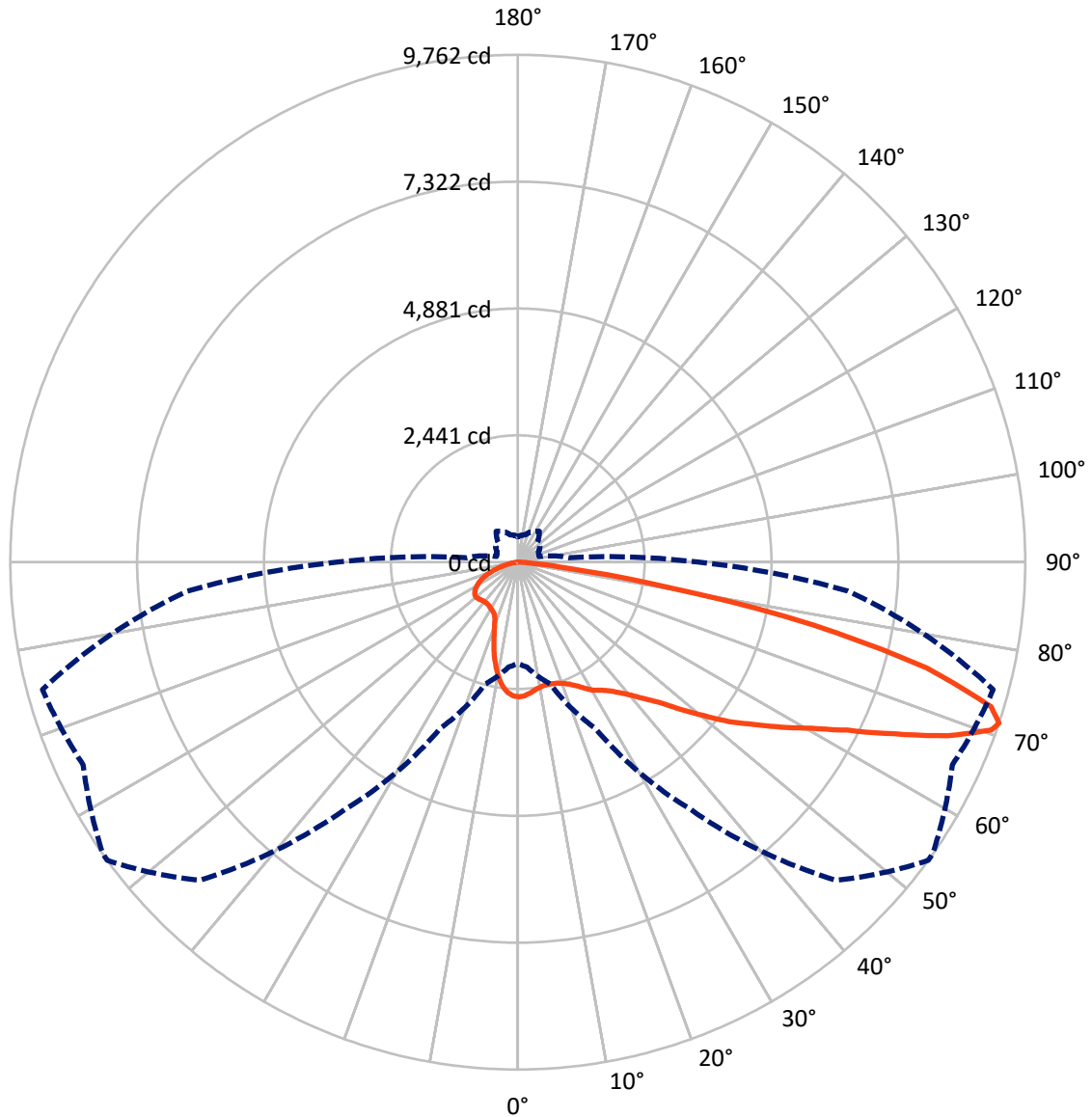
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2624.6	0.0	2624.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11912.4	0.0	11912.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14537.0	0.0	14537.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.1	1.6
10°-20°	610.3	4.2
20°-30°	1016.2	7.0
30°-40°	1502.6	10.3
40°-50°	2116.4	14.6
50°-60°	2834.0	19.5
60°-70°	3572.1	24.6
70°-80°	2439.7	16.8
80°-90°	214.6	1.5
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°	14537.0	100.0
0°-180°	14537.0	100.0

**Coefficient of Utilization**



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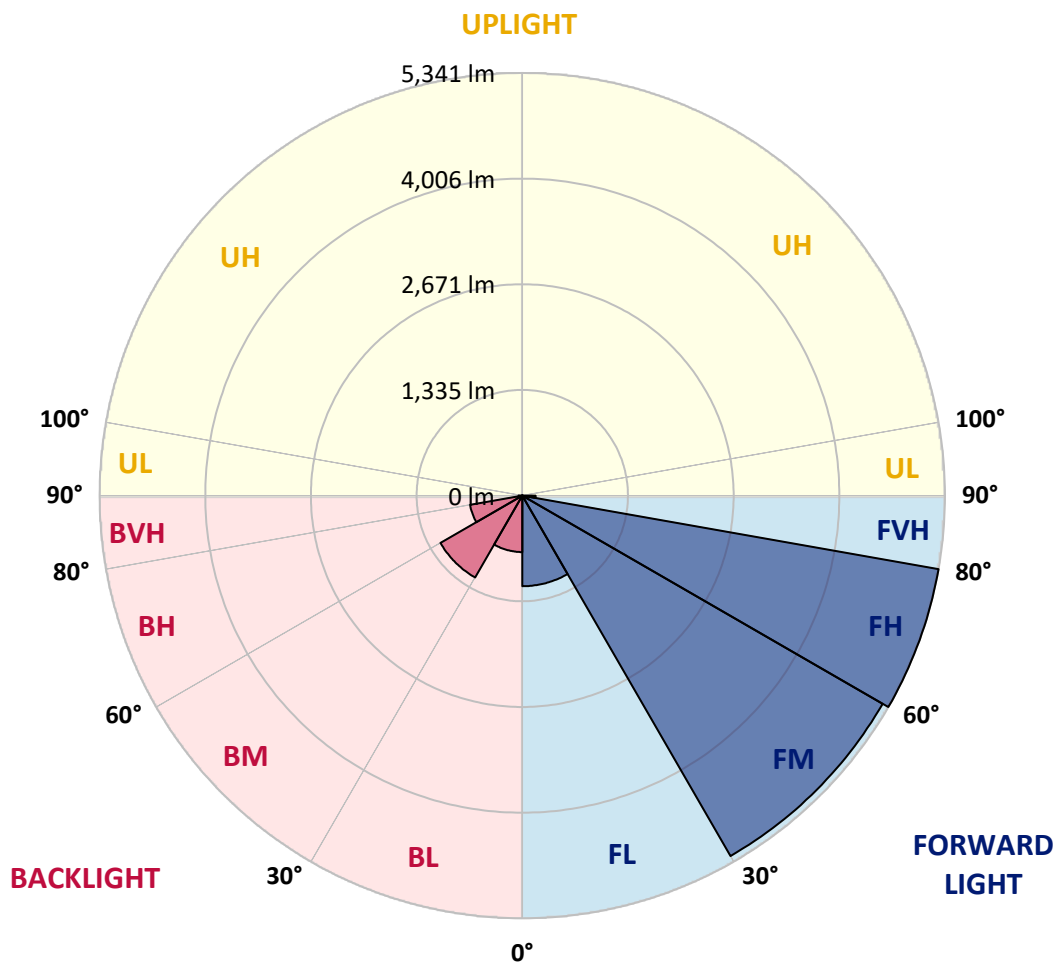
CATALOG NUMBER: GALN-SA3B-727-U-T3R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1144.3	7.9			
FM	(30°-60°)	5259.0	36.2			
FH	(60°-80°)	5341.5	36.7			G3/7500
FVH	(80°-90°)	167.7	1.2			G2/225
BL	(0°-30°)	713.3	4.9	B2/1000		
BM	(30°-60°)	1194.1	8.2	B2/2500		
BH	(60°-80°)	670.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	46.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6
2.5°	2505.7	2517.4	2520.6	2528.4	2544.9	2558.3	2571.6	2570.1	2588.9	2596.8	2603.8
5°	2394.2	2397.3	2409.1	2424.8	2453.8	2490.8	2526.9	2527.7	2574.0	2610.9	2629.0
7.5°	2312.5	2322.7	2330.6	2347.1	2377.7	2417.7	2475.0	2479.8	2562.2	2635.2	2673.7
10°	2259.1	2270.9	2279.5	2299.9	2330.6	2375.3	2437.4	2446.0	2553.6	2673.7	2741.2
12.5°	2210.4	2222.2	2230.1	2256.8	2296.8	2351.8	2421.7	2431.9	2556.7	2718.5	2815.1
15°	2240.3	2249.7	2246.5	2254.4	2281.1	2343.9	2427.9	2438.1	2568.5	2761.7	2888.1
17.5°	2373.0	2380.8	2354.9	2325.1	2312.5	2358.8	2447.6	2458.6	2592.0	2806.4	2962.7
20°	2568.5	2589.7	2533.2	2466.4	2405.9	2412.2	2488.4	2500.2	2625.0	2851.2	3038.8
22.5°	2822.9	2838.6	2769.5	2659.6	2548.1	2490.8	2549.6	2556.7	2674.5	2909.3	3122.1
25°	3122.1	3131.5	3035.7	2894.4	2733.4	2625.0	2633.7	2646.2	2756.2	2975.2	3195.9
27.5°	3412.6	3442.5	3331.7	3159.0	2947.0	2766.4	2749.1	2756.9	2844.9	3012.1	3246.9
30°	3757.3	3755.0	3638.0	3437.7	3166.0	2920.3	2858.2	2856.7	2892.8	3030.2	3283.8
32.5°	4032.2	4064.4	3949.7	3731.4	3416.5	3079.7	2933.6	2930.5	2929.7	3061.6	3338.8
35°	4344.7	4349.4	4244.2	4024.3	3687.4	3279.9	3038.8	3023.1	3005.1	3129.1	3413.4
37.5°	4624.2	4646.2	4549.6	4303.1	3953.6	3488.0	3183.3	3173.1	3118.1	3246.1	3532.8
40°	4842.5	4859.0	4800.9	4566.1	4215.9	3712.6	3367.1	3348.2	3281.5	3437.7	3692.2
42.5°	4914.0	4947.7	4970.5	4855.1	4517.4	3978.8	3593.2	3569.7	3518.6	3728.3	3875.9
45°	4919.5	4972.9	5093.0	5098.5	4820.5	4297.6	3857.1	3840.6	3836.6	4100.5	4134.2
47.5°	4877.9	4932.0	5133.8	5243.0	5090.6	4619.5	4237.9	4212.0	4214.3	4560.6	4424.0
50°	4777.3	4841.7	5086.7	5335.6	5301.9	4954.0	4639.9	4631.3	4680.0	5085.9	4724.7
52.5°	4588.1	4665.8	5038.0	5393.7	5458.9	5242.2	5096.9	5072.6	5195.9	5656.0	5053.7
55°	4064.4	4181.4	4859.8	5425.9	5608.1	5517.8	5508.4	5552.4	5715.7	6277.9	5415.7
57.5°	3791.1	3879.0	4472.7	5431.4	5796.6	5838.2	5989.0	5999.9	6285.8	6938.3	5824.8
60°	3641.9	3719.6	4260.7	5395.3	6059.6	6234.7	6480.5	6519.8	6842.5	7653.6	6248.9
62.5°	3511.6	3578.3	4133.5	5270.5	6356.4	6822.9	7117.3	7136.2	7474.6	8443.6	6667.4
65°	3204.5	3280.7	3877.5	5145.6	6612.4	7557.8	7962.2	7940.2	8147.6	9125.2	6929.7
67.5°	2790.7	2887.3	3399.3	4714.5	6738.8	8361.1	8913.9	8886.5	8811.9	9572.0	7005.0
70°	2262.2	2314.1	2787.6	3969.3	6233.9	8782.8	9665.4	9636.3	9223.3	9630.9	6648.5
71°	1946.6	2027.5	2427.1	3525.7	5813.8	8654.0	9762.0	9754.1	9224.1	9468.3	6380.0
72.5°	1519.4	1568.9	1922.2	2731.8	4941.5	7922.2	9523.3	9553.1	9023.9	9016.8	5826.4
75°	961.1	983.1	1206.1	1608.2	2711.4	5610.5	8129.5	8210.4	8012.5	7380.4	4332.9
77.5°	558.3	586.6	722.4	947.8	1171.6	3045.1	5817.0	5904.9	5567.3	4063.6	1773.8
80°	325.1	356.5	475.8	550.4	537.9	1129.9	2961.9	3111.9	2410.7	1026.3	497.8
82.5°	180.6	201.8	334.5	335.3	286.6	369.1	932.1	975.3	687.9	413.8	203.4
85°	131.1	148.4	215.9	195.5	137.4	158.6	324.3	340.0	278.0	174.3	66.0
87.5°	46.3	66.0	118.6	94.2	37.7	33.0	93.4	76.2	70.7	48.7	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6	2593.6
2.5°	2607.8	2609.3	2601.5	2587.3	2573.2	2555.1	2534.7	2519.0	2512.0	2511.2	2510.4
5°	2636.0	2639.9	2610.1	2566.1	2517.4	2457.8	2406.7	2348.6	2333.7	2310.1	2317.2
7.5°	2681.6	2679.2	2620.3	2526.9	2413.0	2286.6	2179.8	2117.8	2053.4	2035.3	2036.1
10°	2746.7	2731.8	2620.3	2446.8	2256.8	2069.1	1919.9	1825.7	1774.6	1732.2	1716.5
12.5°	2815.8	2778.1	2595.2	2334.5	2055.7	1825.7	1665.5	1538.3	1505.3	1470.7	1471.5
15°	2881.8	2819.0	2545.7	2176.7	1839.0	1565.7	1410.3	1334.1	1323.9	1327.8	1327.0
17.5°	2941.5	2848.0	2470.3	2000.8	1586.2	1342.7	1260.3	1265.8	1293.3	1312.9	1315.3
20°	3001.9	2865.3	2358.0	1765.2	1347.5	1207.7	1210.8	1254.0	1295.6	1322.3	1326.3
22.5°	3059.3	2873.2	2226.1	1537.5	1174.7	1150.4	1196.7	1243.0	1283.9	1309.8	1313.7
25°	3096.9	2855.1	2039.2	1299.6	1089.9	1129.9	1178.6	1217.9	1252.4	1279.1	1285.4
27.5°	3107.2	2797.0	1807.6	1107.2	1050.6	1110.3	1155.1	1184.1	1210.8	1236.0	1240.7
30°	3101.7	2711.4	1553.2	994.1	1027.9	1087.5	1122.1	1143.3	1175.5	1195.1	1199.0
32.5°	3093.0	2611.7	1287.8	933.6	1009.0	1066.3	1086.8	1105.6	1104.8	1097.0	1102.5
35°	3096.2	2492.3	1072.6	897.5	992.5	1050.6	1067.9	1044.4	976.8	973.7	970.5
37.5°	3112.7	2374.5	916.4	872.4	983.9	1048.3	1057.7	949.3	889.7	862.2	855.1
40°	3155.1	2237.1	813.5	853.5	983.1	1066.3	1011.4	901.4	786.8	733.4	729.5
42.5°	3211.6	2102.1	750.7	841.8	992.5	1093.8	992.5	833.9	709.1	677.7	672.9
45°	3295.6	1947.4	716.1	836.3	1006.7	1104.0	986.2	784.4	677.7	652.5	652.5
47.5°	3390.6	1799.7	697.3	832.3	1024.7	1097.0	930.5	768.7	662.7	665.9	680.8
50°	3484.9	1671.8	683.2	823.7	1040.4	1093.0	907.7	768.0	666.7	706.7	733.4
52.5°	3594.0	1581.5	665.9	809.6	1040.4	1067.9	900.7	783.7	677.7	689.4	701.2
55°	3725.9	1553.2	643.9	778.9	1021.6	1005.1	896.7	806.4	685.5	658.0	662.7
57.5°	3900.2	1598.7	622.7	740.5	978.4	939.9	895.2	812.7	667.4	644.7	640.0
60°	4102.8	1689.0	616.4	701.2	919.5	884.2	885.7	794.7	642.3	618.8	622.7
62.5°	4245.0	1743.2	612.5	671.4	855.1	822.9	863.0	772.7	631.3	610.9	614.8
65°	4245.0	1677.3	576.4	625.8	771.9	749.1	835.5	745.2	617.2	593.6	589.7
67.5°	4084.0	1484.9	521.4	557.5	680.0	665.1	797.0	712.2	596.0	577.9	568.5
70°	3664.7	1126.0	452.3	477.4	563.8	577.1	747.5	667.4	560.7	538.7	524.5
71°	3480.1	980.8	423.2	436.6	519.0	538.7	724.0	648.6	544.9	513.5	488.4
72.5°	3124.4	826.1	379.3	384.8	443.7	479.0	674.5	612.5	515.1	470.4	442.1
75°	2373.8	603.1	305.5	302.3	328.2	380.1	570.9	545.7	451.5	391.0	374.6
77.5°	1025.5	328.2	228.5	230.9	223.0	288.2	449.2	468.8	387.1	318.0	303.1
80°	311.0	189.2	156.3	159.4	149.2	193.2	316.4	367.5	311.0	247.3	226.9
82.5°	159.4	113.1	106.8	105.2	95.0	109.1	191.6	251.3	222.2	154.7	136.6
85°	69.1	60.5	52.6	51.0	44.8	39.3	68.3	125.6	117.8	86.4	82.4
87.5°	17.3	15.7	10.2	9.4	5.5	0.8	0.0	0.0	0.0	0.0	0.0
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)