

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: P453232

Luminaire Tested: **GALN-SA4B-727-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18784 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

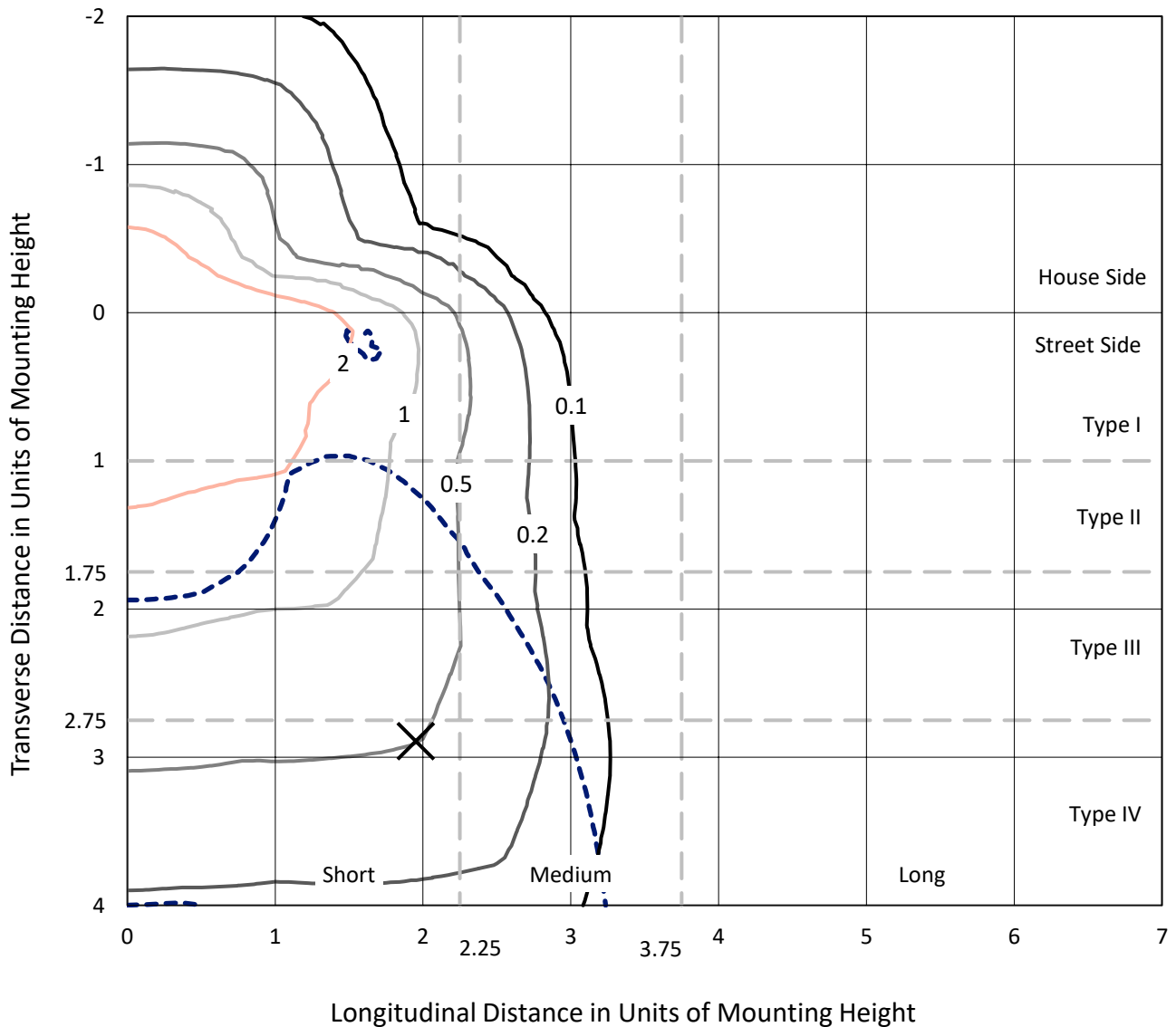
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453232  
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### Iso-Footcandle Lines of Horizontal Illumination

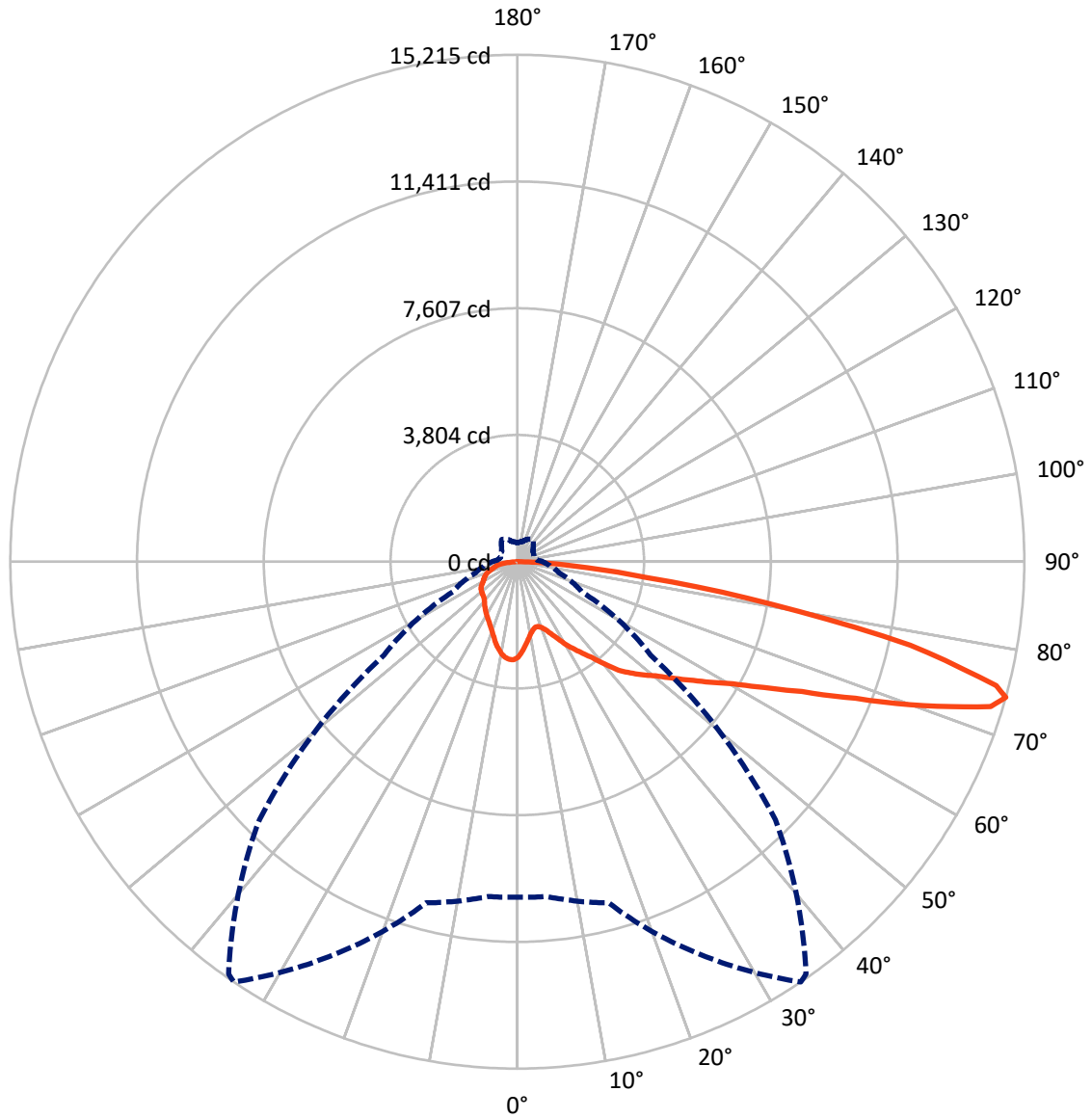
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P453232  
CATALOG NUMBER: GALN-SA4B-727-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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CATALOG NUMBER: GALN-SA4B-727-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3997.4	0.0	3997.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	14786.6	0.0	14786.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	18784.0	0.0	18784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.8	1.4
10°-20°	714.0	3.8
20°-30°	1177.2	6.3
30°-40°	1763.3	9.4
40°-50°	2563.4	13.6
50°-60°	3580.4	19.1
60°-70°	4482.5	23.9
70°-80°	3706.7	19.7
80°-90°	535.6	2.9
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°	18784.0	100.0
0°-180°	18784.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453232

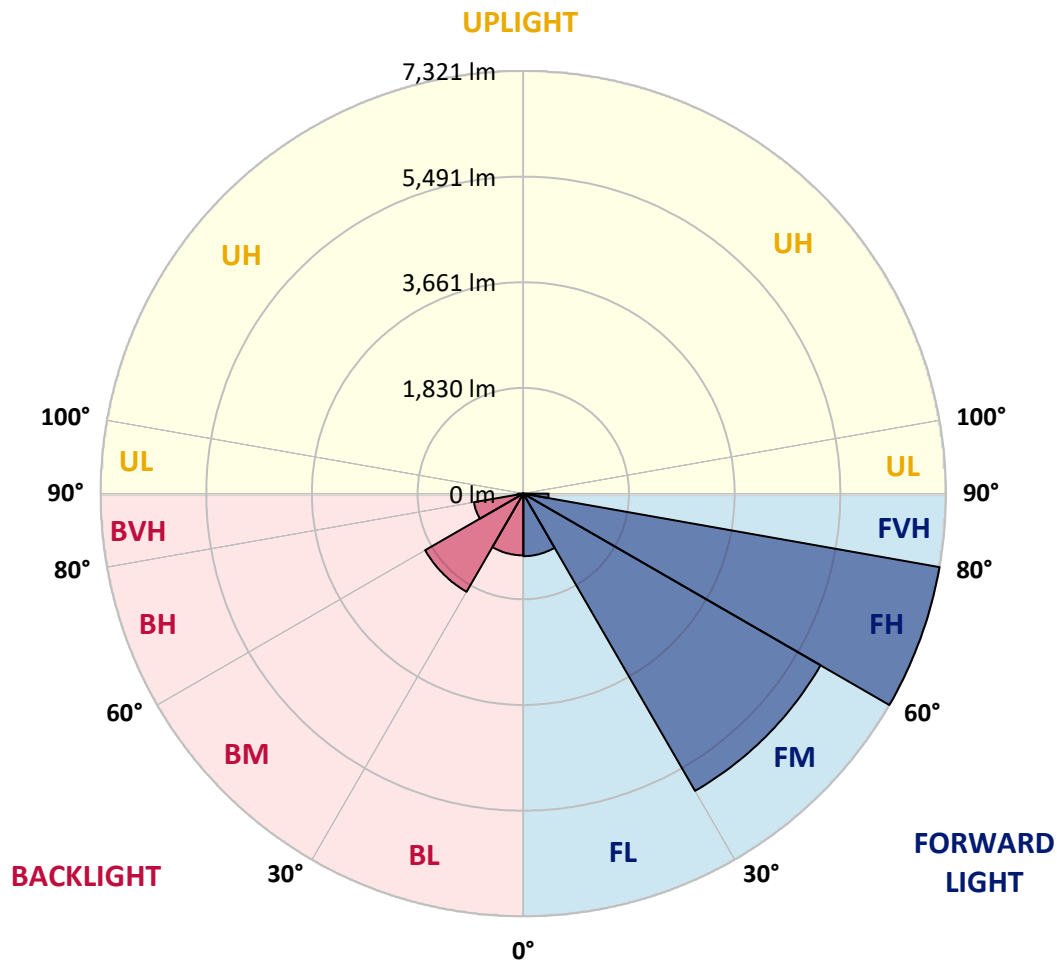
CATALOG NUMBER: GALN-SA4B-727-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.8	5.8			
FM (30°-60°)	5944.0	31.6			
FH (60°-80°)	7321.0	39.0			G3/7500
FVH (80°-90°)	438.8	2.3			G3/500
BL (0°-30°)	1069.2	5.7	B3/2500		
BM (30°-60°)	1963.1	10.5	B2/2500		
BH (60°-80°)	868.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	96.8	0.5			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9
2.5°	2650.5	2664.0	2671.3	2697.3	2703.5	2711.9	2733.7	2762.8	2800.3	2833.6	2862.7
5°	2429.8	2450.7	2463.1	2486.0	2530.8	2534.9	2593.2	2659.8	2735.8	2806.5	2864.8
7.5°	2220.7	2243.6	2254.0	2295.6	2354.9	2364.3	2449.6	2554.7	2681.7	2788.9	2878.4
10°	2063.5	2075.0	2097.9	2129.1	2199.9	2206.1	2317.5	2457.9	2622.4	2780.5	2901.2
12.5°	1978.2	1984.5	1989.7	2023.0	2092.7	2102.0	2218.6	2377.8	2575.5	2786.8	2938.7
15°	1990.7	1992.8	1969.9	1976.1	2032.3	2045.9	2161.4	2324.7	2546.4	2802.4	2994.9
17.5°	2095.8	2088.5	2032.3	2003.2	2042.7	2049.0	2149.9	2303.9	2532.9	2831.5	3053.2
20°	2261.3	2250.9	2154.1	2089.6	2112.5	2117.7	2187.4	2319.5	2546.4	2879.4	3143.7
22.5°	2467.3	2463.1	2316.4	2238.4	2237.3	2237.3	2273.8	2375.7	2587.0	2945.0	3238.4
25°	2755.6	2733.7	2542.2	2441.3	2413.2	2411.1	2407.0	2468.3	2639.0	3014.7	3350.8
27.5°	3051.1	3013.6	2843.0	2687.9	2627.6	2620.3	2593.2	2599.5	2705.6	3093.8	3478.8
30°	3316.5	3292.5	3132.3	2960.6	2888.8	2872.1	2797.2	2762.8	2817.0	3236.3	3682.7
32.5°	3519.4	3504.8	3379.9	3223.8	3117.7	3114.6	3005.3	2977.2	2990.7	3409.1	3915.8
35°	3683.8	3689.0	3625.5	3490.2	3368.5	3350.8	3277.9	3242.6	3203.0	3658.8	4209.3
37.5°	3908.6	3920.0	3915.8	3799.3	3650.5	3654.7	3638.0	3579.7	3474.6	3937.7	4535.0
40°	4156.2	4164.6	4163.5	4118.8	4040.7	4044.9	4038.6	3972.0	3814.9	4292.6	4897.2
42.5°	4498.6	4459.1	4356.0	4400.8	4446.6	4466.3	4509.0	4445.5	4230.1	4671.3	5237.4
45°	4881.5	4806.6	4573.5	4594.3	4764.0	4801.4	5036.6	4949.2	4680.7	5106.3	5638.1
47.5°	5123.0	5049.1	4852.4	4848.2	5073.0	5109.4	5525.7	5493.4	5090.7	5575.6	6127.2
50°	5338.4	5328.0	5106.3	5159.4	5379.0	5433.1	6058.5	6028.3	5499.7	6129.2	6660.0
52.5°	5657.8	5573.6	5396.6	5505.9	5796.2	5867.0	6587.1	6498.7	5875.3	6618.3	7177.1
55°	5801.4	5781.7	5771.3	5866.0	6264.5	6315.5	7101.2	6898.3	6195.8	7032.5	7570.5
57.5°	6185.4	6149.0	6252.0	6316.6	6816.1	6894.1	7638.1	7315.5	6476.8	7361.3	7762.0
60°	6682.9	6663.1	6757.8	6874.3	7432.1	7550.7	8250.0	7671.4	6702.6	7526.8	7656.9
62.5°	7425.9	7423.8	7406.1	7655.8	8305.2	8414.4	8952.4	8018.0	6738.0	7403.0	7113.7
65°	8491.4	8454.0	8300.0	8572.6	9391.6	9519.6	9684.0	8211.5	6524.7	6767.1	5989.8
67.5°	9606.0	9603.9	9479.0	9832.8	10951.5	11083.6	10598.7	8168.9	5932.6	5482.0	4254.0
70°	10530.0	10485.3	10644.5	11587.3	12944.3	13097.2	11398.9	7666.2	4725.4	3620.3	2527.7
72.5°	10751.7	10753.8	11084.7	12940.1	14858.0	14881.9	11687.2	6213.5	3162.4	1996.9	1264.4
74°	10069.0	10086.7	10599.7	13007.7	15214.9	15106.7	10950.4	4883.6	2138.5	1303.9	911.6
75°	9190.7	9079.4	9821.4	12557.1	14844.4	14727.9	10087.8	3919.0	1631.7	1041.7	798.2
77.5°	4913.8	5027.2	6171.9	9370.8	12059.7	11925.5	6840.0	1879.4	881.4	725.3	574.4
80°	1749.3	1929.3	2711.9	4903.4	7731.8	7773.4	3264.4	861.6	620.2	534.9	405.8
82.5°	713.9	733.6	1164.5	2175.9	3926.3	3963.7	1333.0	512.0	443.3	368.4	242.5
85°	278.9	287.2	515.1	978.2	1675.4	1784.7	461.0	270.6	272.6	211.2	123.8
87.5°	93.7	106.1	211.2	325.7	569.2	557.8	134.2	80.1	97.8	91.6	38.5
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: P453232

CATALOG NUMBER: GALN-SA4B-727-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9	2867.9
2.5°	2877.3	2897.1	2910.6	2925.2	2938.7	2942.9	2939.7	2949.1	2950.2	2951.2	2952.2
5°	2894.0	2921.0	2947.0	2961.6	2967.8	2962.6	2945.0	2935.6	2927.3	2921.0	2923.1
7.5°	2916.9	2955.4	2979.3	2985.5	2968.9	2945.0	2901.2	2866.9	2845.1	2830.5	2829.4
10°	2952.2	2989.7	3009.5	2991.8	2946.0	2887.7	2819.0	2754.5	2705.6	2691.0	2690.0
12.5°	2997.0	3039.6	3038.6	2986.6	2906.4	2802.4	2691.0	2616.1	2549.5	2516.2	2529.7
15°	3055.3	3087.5	3057.3	2963.7	2836.7	2694.2	2556.8	2454.8	2379.9	2344.5	2346.6
17.5°	3122.9	3151.0	3070.9	2923.1	2738.9	2555.8	2396.5	2299.8	2240.5	2214.4	2212.4
20°	3207.2	3215.5	3070.9	2852.3	2613.0	2394.5	2242.5	2174.9	2141.6	2128.1	2132.2
22.5°	3297.7	3281.1	3054.2	2752.4	2447.5	2225.9	2123.9	2093.7	2077.1	2075.0	2077.1
25°	3399.7	3352.9	3019.9	2617.2	2274.8	2080.2	2020.9	2026.1	2029.2	2029.2	2036.5
27.5°	3524.6	3430.9	2962.6	2446.5	2072.9	1944.9	1928.3	1964.7	1981.3	1984.5	1989.7
30°	3689.0	3516.3	2867.9	2233.2	1901.2	1823.2	1852.3	1901.2	1919.9	1931.4	1929.3
32.5°	3884.6	3609.9	2739.9	2019.8	1762.8	1737.8	1773.2	1823.2	1844.0	1850.2	1841.9
35°	4114.6	3716.0	2571.4	1820.0	1642.1	1656.7	1698.3	1713.9	1732.6	1732.6	1736.8
37.5°	4362.3	3801.4	2365.3	1636.9	1548.4	1601.5	1631.7	1617.1	1608.8	1598.4	1603.6
40°	4614.1	3864.9	2097.9	1455.8	1454.8	1544.3	1552.6	1511.0	1477.7	1467.3	1462.1
42.5°	4833.7	3904.4	1856.5	1315.3	1366.3	1488.1	1494.3	1427.7	1374.7	1343.4	1333.0
45°	5092.8	3950.2	1620.2	1198.8	1284.1	1443.3	1458.9	1369.5	1291.4	1225.8	1209.2
47.5°	5447.6	4054.3	1434.0	1108.3	1224.8	1415.2	1437.1	1321.6	1218.6	1133.2	1119.7
50°	5848.3	4196.8	1289.3	1046.9	1179.0	1390.3	1417.3	1272.7	1150.9	1056.2	1045.8
52.5°	6215.6	4273.8	1164.5	991.7	1134.3	1344.5	1391.3	1237.3	1084.3	979.2	969.9
55°	6416.5	4148.9	1041.7	937.6	1072.9	1285.2	1354.9	1188.4	1019.8	938.6	925.1
57.5°	6443.5	3890.9	930.3	879.3	1008.4	1212.3	1287.2	1129.1	978.2	910.5	899.1
60°	6234.3	3505.8	843.9	831.5	942.8	1130.1	1211.3	1077.0	935.5	879.3	867.9
62.5°	5714.0	3087.5	783.6	787.7	876.2	1043.7	1155.1	1027.1	894.9	845.0	834.6
65°	4819.1	2548.5	725.3	743.0	816.9	976.1	1104.1	985.5	854.3	819.0	809.6
67.5°	3347.7	1839.8	677.4	696.2	760.7	907.4	1044.8	940.7	808.6	789.8	775.3
70°	1853.3	1132.2	621.2	643.1	702.4	830.4	978.2	873.1	742.0	733.6	712.8
72.5°	974.0	721.1	557.8	581.7	623.3	731.6	876.2	799.2	676.4	641.0	614.0
74°	760.7	591.1	515.1	540.1	568.2	673.3	815.8	746.1	629.6	587.9	567.1
75°	662.9	526.6	478.7	510.9	535.9	633.7	769.0	708.7	603.6	564.0	545.3
77.5°	468.3	394.4	391.3	429.8	443.3	555.7	693.1	645.2	538.0	496.4	478.7
80°	328.8	295.5	310.1	334.0	352.8	491.2	643.1	557.8	441.2	392.3	386.1
82.5°	214.4	193.6	221.7	243.5	249.7	362.1	519.3	423.5	321.6	261.2	242.5
85°	98.9	96.8	127.0	123.8	122.8	176.9	308.0	247.7	185.2	138.4	130.1
87.5°	25.0	23.9	31.2	26.0	31.2	27.1	28.1	7.3	1.0	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)