

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: P522716

Luminaire Tested: **GALN-SA3D-740-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23110 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

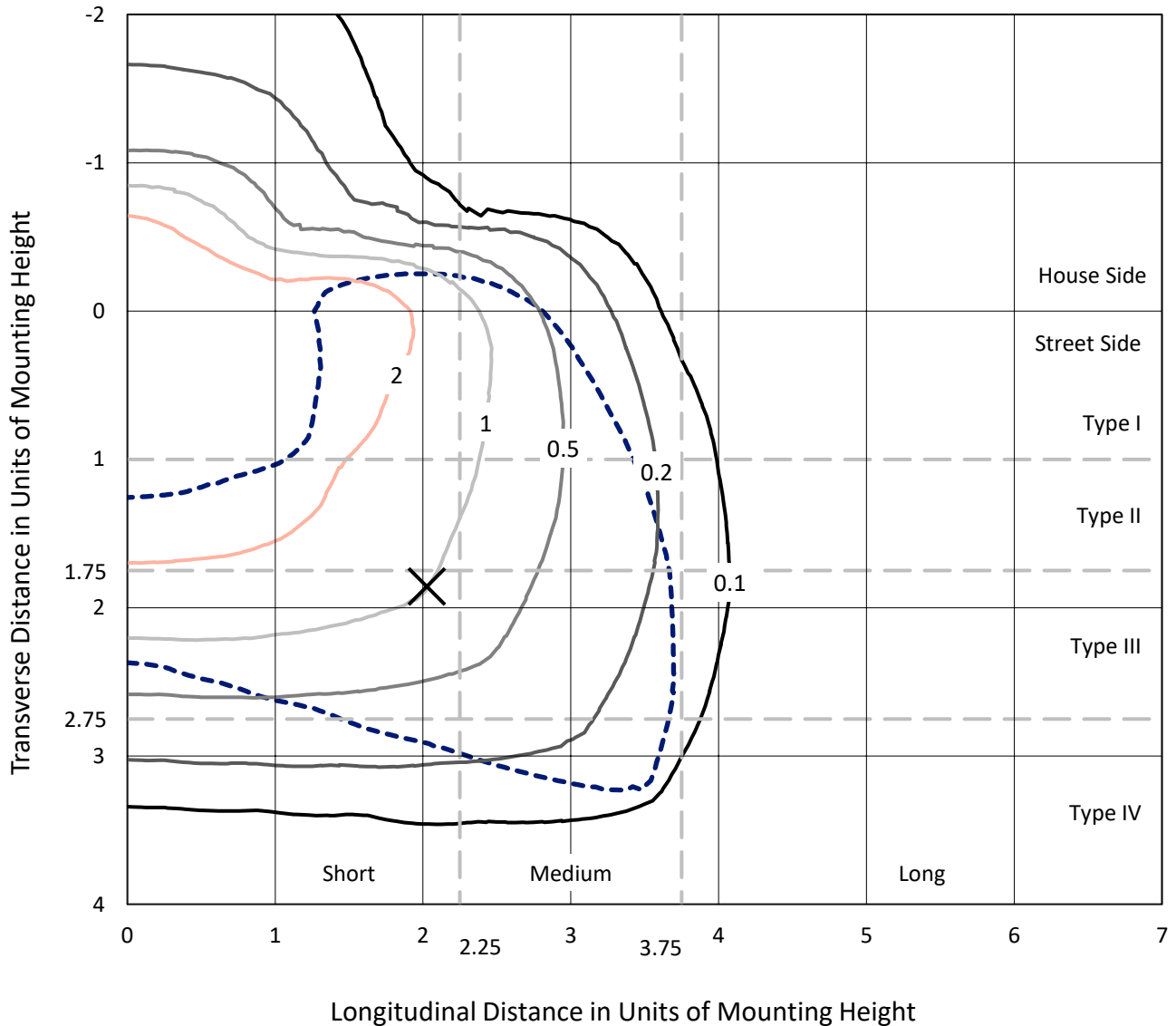
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

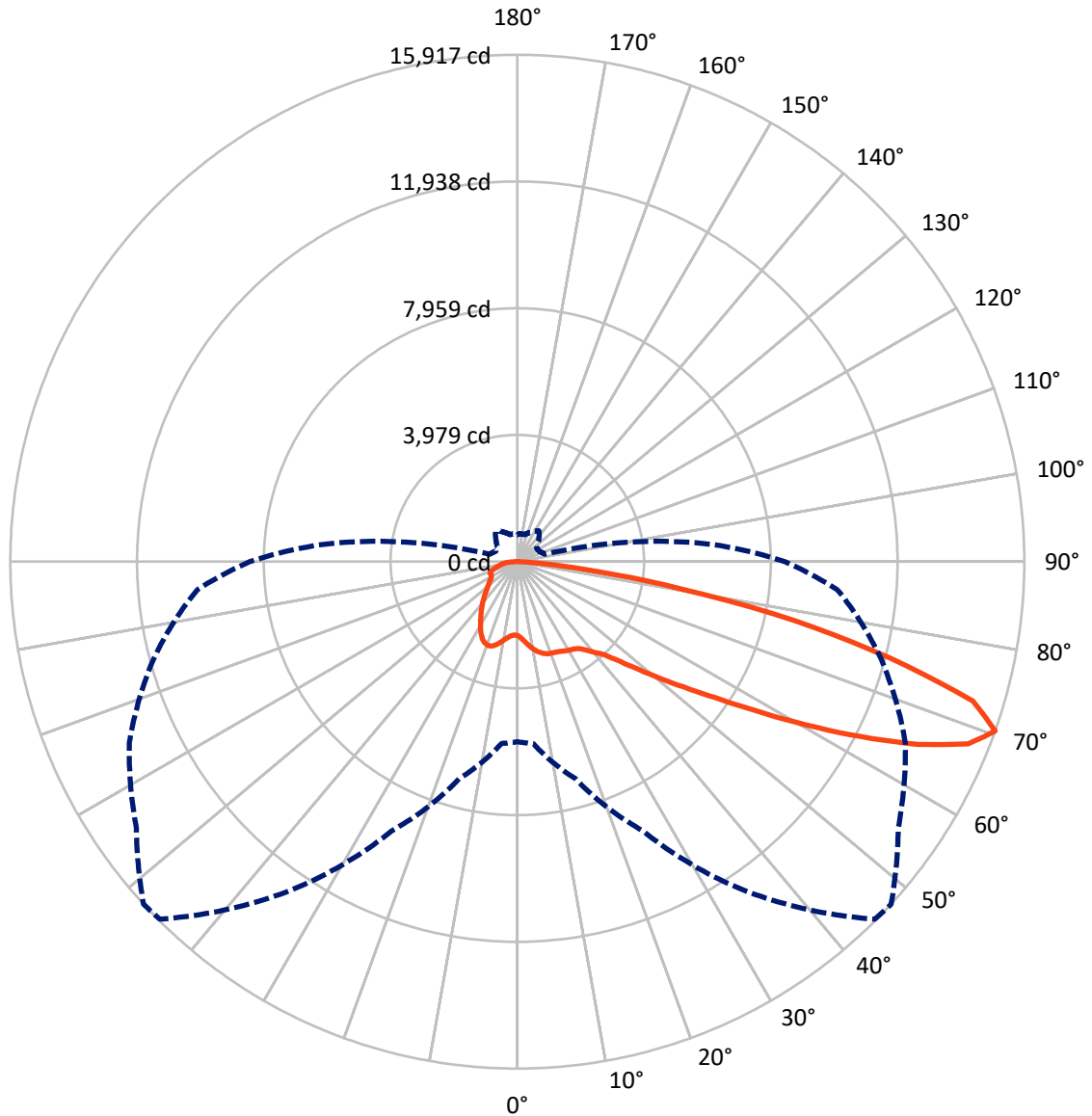
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5232.6	0.0	5232.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	17877.5	0.0	17877.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	23110.0	0.0	23110.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.1	1.0
10°-20°	799.5	3.5
20°-30°	1329.5	5.8
30°-40°	1884.4	8.2
40°-50°	2781.7	12.0
50°-60°	4818.1	20.8
60°-70°	6805.7	29.4
70°-80°	3912.3	16.9
80°-90°	539.8	2.3
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°	23110.0	100.0
0°-180°	23110.0	100.0

**Coefficient of Utilization**



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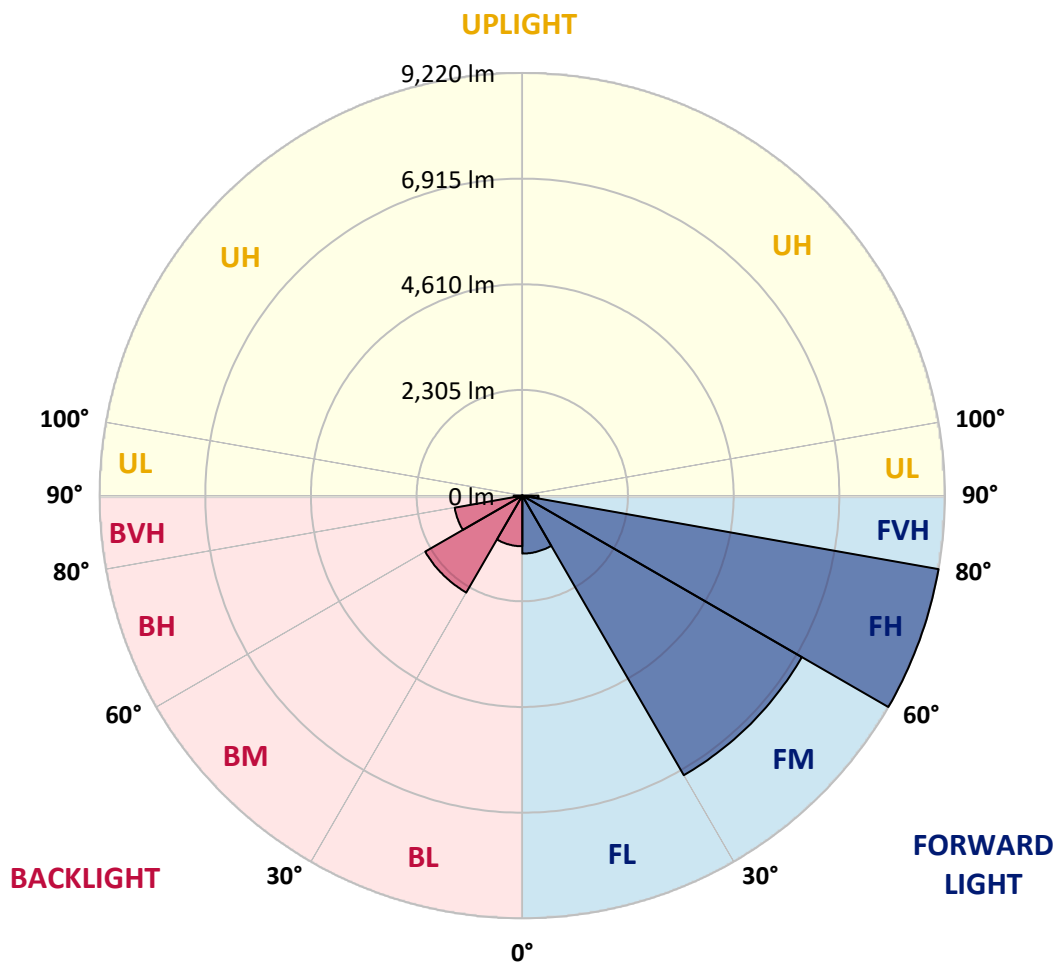
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1263.7	5.5			
FM	(30°-60°)	7041.2	30.5			
FH	(60°-80°)	9219.9	39.9			G4/12000
FVH	(80°-90°)	352.6	1.5			G3/500
BL	(0°-30°)	1104.4	4.8	B3/2500		
BM	(30°-60°)	2443.0	10.6	B2/2500		
BH	(60°-80°)	1498.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	187.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0
2.5°	2469.6	2460.9	2459.7	2441.2	2431.3	2412.7	2405.3	2388.0	2367.0	2345.9	2326.1
5°	2663.8	2663.8	2655.1	2629.1	2588.3	2546.3	2527.7	2494.3	2435.0	2386.7	2345.9
7.5°	2862.9	2865.3	2848.0	2809.7	2751.6	2683.5	2666.2	2616.8	2532.7	2462.2	2401.6
10°	3034.8	3034.8	3011.3	2959.3	2886.4	2812.2	2794.8	2739.2	2645.2	2557.4	2478.3
12.5°	3165.8	3165.8	3134.9	3066.9	2987.8	2921.0	2901.2	2848.0	2760.2	2662.5	2562.4
15°	3251.2	3245.0	3210.4	3133.7	3057.0	2998.9	2985.3	2940.8	2860.4	2761.5	2648.9
17.5°	3254.9	3252.4	3219.0	3154.7	3087.9	3048.4	3039.7	3010.0	2947.0	2853.0	2734.2
20°	3183.2	3188.1	3165.8	3120.1	3087.9	3070.6	3066.9	3057.0	3012.5	2924.7	2806.0
22.5°	3106.5	3115.1	3094.1	3069.4	3066.9	3084.2	3086.7	3089.2	3060.7	2975.4	2866.6
25°	3087.9	3094.1	3073.1	3050.8	3064.4	3110.2	3120.1	3130.0	3107.7	3036.0	2938.3
27.5°	3181.9	3177.0	3136.2	3087.9	3096.6	3158.4	3172.0	3183.2	3172.0	3110.2	3027.3
30°	3447.8	3431.7	3350.1	3209.1	3164.6	3207.9	3221.5	3252.4	3252.4	3206.6	3123.8
32.5°	3893.0	3862.1	3712.4	3435.4	3280.8	3254.9	3268.5	3319.2	3345.2	3309.3	3219.0
35°	4433.4	4401.3	4187.3	3815.1	3493.6	3348.9	3345.2	3402.0	3471.3	3390.9	3273.4
37.5°	4976.3	4942.9	4685.7	4267.7	3804.0	3546.7	3524.5	3544.3	3573.9	3426.8	3348.9
40°	5519.2	5479.6	5254.5	4773.5	4183.6	3808.9	3750.8	3661.7	3649.4	3544.3	3494.8
42.5°	6057.1	6021.3	5907.5	5341.1	4638.7	4064.9	3975.8	3822.5	3869.5	3806.4	3763.1
45°	6600.0	6602.5	6481.3	5978.0	5187.8	4537.3	4417.3	4177.4	4288.7	4265.2	4290.0
47.5°	7081.1	7074.9	7031.6	6596.3	5869.2	5145.7	4991.1	4712.9	4903.3	4989.9	5179.1
50°	7547.3	7543.6	7546.1	7297.5	6660.6	5869.2	5698.5	5406.7	5835.8	6136.3	6475.1
52.5°	8215.1	8236.1	8086.5	8020.9	7622.7	6723.7	6535.7	6234.0	6937.6	7411.3	8072.9
55°	8885.4	8868.1	8750.6	8818.6	8629.4	7735.3	7538.7	7298.7	8164.4	8682.6	9676.8
57.5°	9279.9	9286.0	9406.0	9738.7	9872.2	8996.7	8818.6	8633.1	9543.3	9910.6	11103.9
60°	9634.8	9663.2	10008.3	10636.5	10998.8	10546.2	10387.9	10207.4	10808.4	10954.3	12343.1
62.5°	9746.1	9833.9	10436.1	11376.0	12097.0	12294.8	12098.2	11700.0	12012.9	11956.0	13182.7
65°	9190.8	9310.8	10390.4	11653.0	13077.6	13954.4	13829.5	13090.0	13039.3	12696.7	13320.0
67.5°	7729.1	7849.1	9235.3	11071.8	13483.3	15391.4	15266.5	14104.1	13662.6	12766.0	12281.2
70°	5655.2	5730.7	7056.4	9321.9	12668.3	15873.7	15917.0	14598.7	13440.0	11824.9	10083.7
72.5°	3258.6	3425.5	4354.3	6558.0	10349.6	14654.4	14954.9	13569.8	12032.7	9864.8	7050.2
75°	1401.1	1404.8	2013.3	3617.2	7009.4	11779.1	12069.8	11248.6	9449.3	6821.4	3764.4
77.5°	666.6	678.9	885.4	1615.1	3858.4	8138.4	8922.5	7946.7	6043.5	3277.1	1422.2
80°	432.8	441.5	541.7	801.4	1892.1	4719.1	5265.7	4584.3	2666.2	1171.1	613.4
82.5°	262.2	264.6	362.3	489.7	1041.3	2136.9	2519.1	1989.8	1137.7	701.2	361.1
85°	159.5	160.8	220.1	303.0	631.9	738.3	758.1	751.9	667.8	458.8	192.9
87.5°	76.7	79.1	113.8	143.5	248.6	228.8	216.4	251.0	315.3	247.3	82.9
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°	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0	2320.0
2.5°	2317.5	2313.8	2305.1	2301.4	2298.9	2300.2	2298.9	2298.9	2300.2	2300.2	2300.2
5°	2328.6	2322.4	2308.8	2308.8	2316.3	2333.6	2349.6	2362.0	2375.6	2374.4	2374.4
7.5°	2376.9	2365.7	2349.6	2354.6	2373.1	2400.3	2428.8	2456.0	2483.2	2485.7	2484.4
10°	2447.3	2436.2	2418.9	2425.1	2454.8	2495.6	2531.4	2571.0	2600.7	2609.3	2606.9
12.5°	2527.7	2505.5	2490.6	2507.9	2554.9	2609.3	2644.0	2673.6	2694.7	2707.0	2702.1
15°	2609.3	2588.3	2571.0	2606.9	2663.8	2714.5	2731.8	2736.7	2740.4	2752.8	2750.3
17.5°	2688.5	2660.0	2653.9	2700.9	2755.3	2777.5	2767.6	2746.6	2730.5	2740.4	2739.2
20°	2759.0	2736.7	2734.2	2781.2	2802.3	2781.2	2739.2	2702.1	2673.6	2676.1	2674.9
22.5°	2825.8	2808.4	2810.9	2830.7	2797.3	2725.6	2656.3	2605.6	2574.7	2580.9	2584.6
25°	2900.0	2882.6	2888.8	2856.7	2746.6	2621.7	2521.5	2478.3	2465.9	2478.3	2486.9
27.5°	2996.4	2985.3	2981.6	2857.9	2656.3	2468.4	2354.6	2338.5	2349.6	2376.9	2390.5
30°	3100.3	3100.3	3080.5	2836.9	2532.7	2284.1	2185.2	2187.6	2226.0	2264.3	2277.9
32.5°	3200.5	3221.5	3159.7	2780.0	2373.1	2104.8	2029.4	2031.8	2065.2	2112.2	2124.6
35°	3283.3	3343.9	3227.7	2676.1	2185.2	1953.9	1897.0	1863.6	1864.9	1900.7	1910.6
37.5°	3397.1	3509.6	3267.2	2521.5	1984.8	1825.3	1761.0	1702.9	1664.5	1649.7	1649.7
40°	3595.0	3760.7	3277.1	2292.8	1795.6	1702.9	1611.4	1542.1	1467.9	1401.1	1388.8
42.5°	3930.1	4139.1	3257.4	2029.4	1625.0	1568.1	1479.0	1393.7	1291.1	1197.1	1189.7
45°	4523.7	4631.3	3204.2	1756.1	1472.9	1438.2	1351.7	1258.9	1150.1	1066.0	1059.8
47.5°	5474.7	5322.6	3133.7	1513.7	1334.4	1324.5	1257.7	1150.1	1041.3	983.1	977.0
50°	6863.4	6410.8	3123.8	1338.1	1223.1	1228.0	1173.6	1074.7	979.4	931.2	923.8
52.5°	8535.4	7725.4	3189.3	1214.4	1125.4	1143.9	1116.7	1025.2	941.1	900.3	892.9
55°	10157.9	8907.6	3228.9	1117.9	1033.8	1068.5	1072.2	995.5	918.8	878.0	873.1
57.5°	11474.9	9798.0	3053.3	1030.1	954.7	1007.9	1035.1	978.2	907.7	876.8	871.8
60°	12391.3	10218.5	2553.7	952.2	896.6	959.6	1021.5	979.4	934.9	938.6	941.1
62.5°	12683.1	10031.8	1915.6	894.1	857.0	943.6	1043.7	1030.1	984.4	1012.8	1017.8
65°	12199.6	9260.1	1388.8	848.3	822.4	954.7	1110.5	1067.2	967.1	988.1	988.1
67.5°	10580.8	7977.7	1080.8	806.3	782.8	975.7	1177.3	1063.5	926.3	951.0	928.7
70°	8393.2	6170.9	900.3	759.3	740.8	944.8	1183.5	1025.2	878.0	883.0	840.9
72.5°	5569.9	4057.5	774.1	714.8	676.5	849.6	1132.8	975.7	831.0	802.6	760.5
75°	2729.3	2023.2	675.2	659.1	592.4	739.5	1063.5	928.7	780.3	735.8	712.3
77.5°	1057.3	860.7	576.3	588.6	515.7	651.7	972.0	861.9	713.6	653.0	634.4
80°	513.2	488.5	472.4	491.0	424.2	555.3	887.9	803.8	651.7	584.9	557.7
82.5°	319.1	301.7	362.3	382.1	326.5	507.0	842.2	754.4	573.8	484.8	462.5
85°	162.0	173.1	242.4	260.9	233.7	403.1	693.8	566.4	414.3	343.8	346.3
87.5°	61.8	82.9	127.4	137.3	124.9	212.7	382.1	330.2	265.9	180.6	166.9
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)