

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: P453957

Luminaire Tested: **GALN-SA5A-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453957  
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-SA5A-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA 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: 20811 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

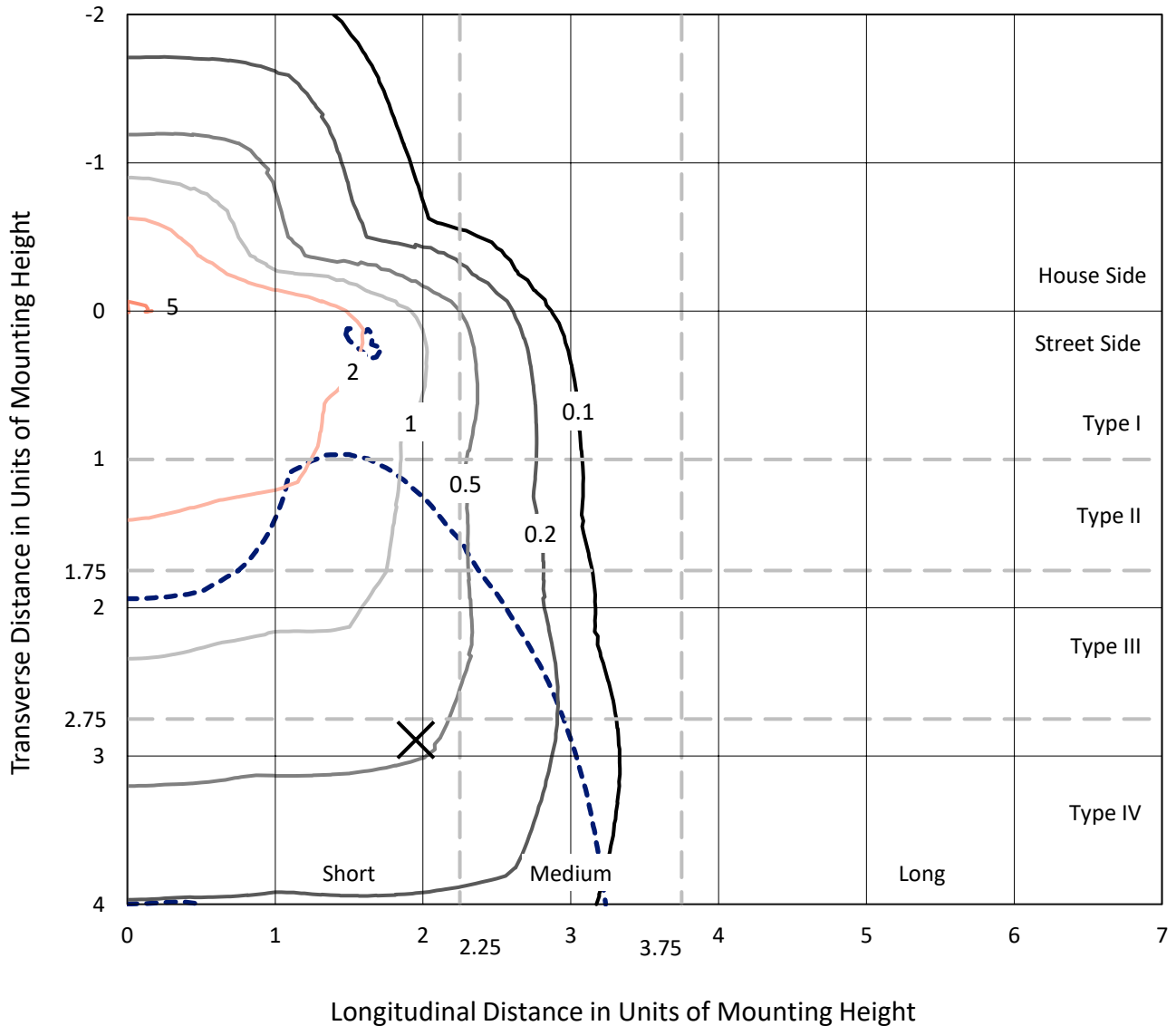
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

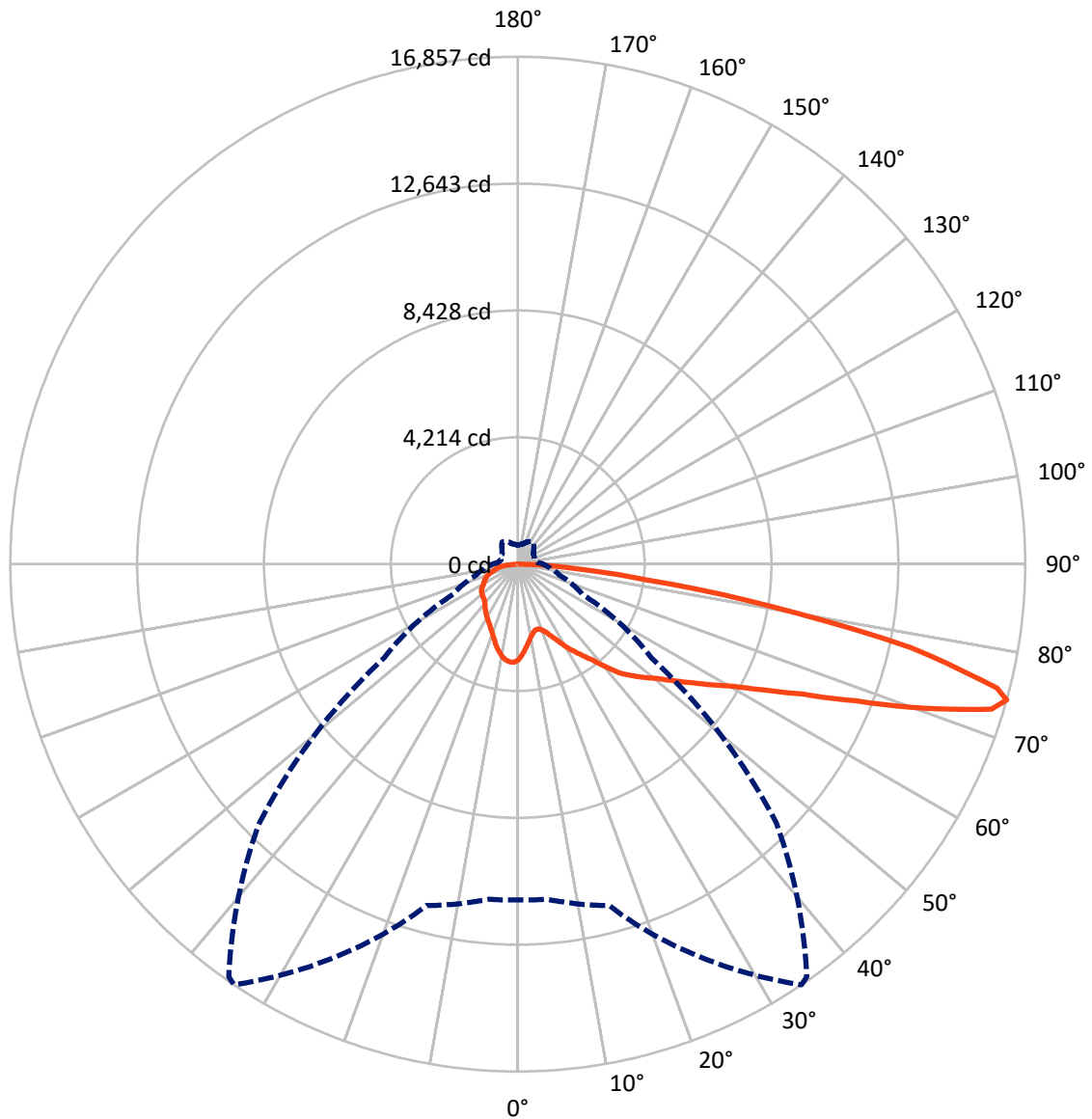
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4428.7	0.0	4428.7
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	16382.3	0.0	16382.3
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	20811.0	0.0	20811.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.0	1.4
10°-20°	791.1	3.8
20°-30°	1304.2	6.3
30°-40°	1953.6	9.4
40°-50°	2840.0	13.6
50°-60°	3966.8	19.1
60°-70°	4966.2	23.9
70°-80°	4106.7	19.7
80°-90°	593.4	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°	20811.0	100.0
0°-180°	20811.0	100.0

**Coefficient of Utilization**



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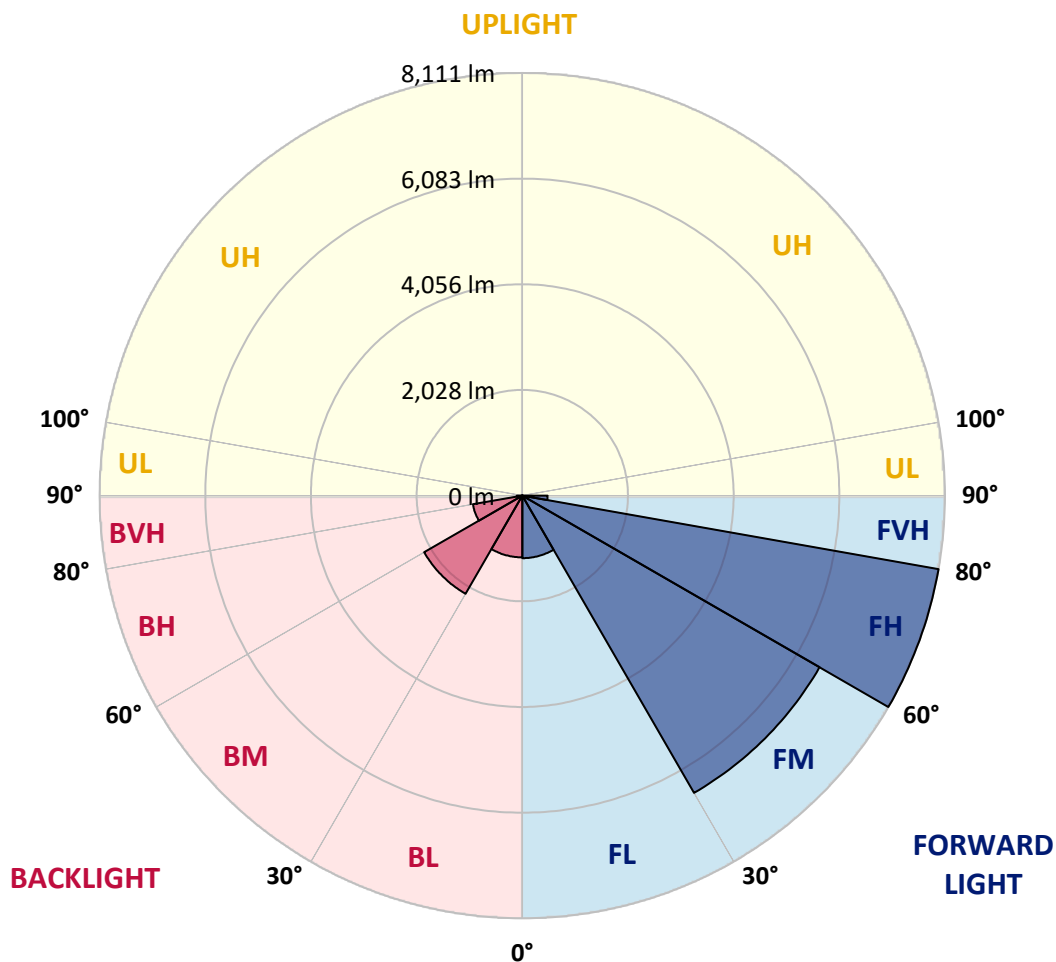
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.7	5.8			
FM (30°-60°)	6585.5	31.6			
FH (60°-80°)	8111.0	39.0			G4/12000
FVH (80°-90°)	486.1	2.3			G3/500
BL (0°-30°)	1184.6	5.7	B3/2500		
BM (30°-60°)	2175.0	10.5	B2/2500		
BH (60°-80°)	961.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	107.3	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4
2.5°	2936.5	2951.5	2959.5	2988.4	2995.3	3004.5	3028.7	3061.0	3102.5	3139.4	3171.7
5°	2692.1	2715.1	2728.9	2754.3	2803.9	2808.5	2873.1	2946.8	3031.0	3109.4	3174.0
7.5°	2460.3	2485.7	2497.2	2543.3	2609.0	2619.4	2714.0	2830.4	2971.1	3089.8	3189.0
10°	2286.2	2298.9	2324.3	2358.9	2437.3	2444.2	2567.5	2723.2	2905.3	3080.6	3214.3
12.5°	2191.7	2198.6	2204.4	2241.3	2318.5	2328.9	2458.0	2634.4	2853.5	3087.5	3255.8
15°	2205.5	2207.8	2182.5	2189.4	2251.6	2266.6	2394.6	2575.6	2821.2	3104.8	3318.1
17.5°	2322.0	2313.9	2251.6	2219.4	2263.2	2270.1	2381.9	2552.5	2806.2	3137.1	3382.6
20°	2505.3	2493.8	2386.5	2315.0	2340.4	2346.2	2423.4	2569.8	2821.2	3190.1	3483.0
22.5°	2733.6	2728.9	2566.4	2479.9	2478.8	2478.8	2519.1	2632.1	2866.1	3262.7	3587.9
25°	3052.9	3028.7	2816.6	2704.7	2673.6	2671.3	2666.7	2734.7	2923.8	3340.0	3712.4
27.5°	3380.3	3338.8	3149.8	2978.0	2911.1	2903.0	2873.1	2880.0	2997.6	3427.6	3854.2
30°	3674.3	3647.8	3470.3	3280.0	3200.5	3182.0	3099.0	3061.0	3120.9	3585.6	4080.2
32.5°	3899.2	3883.0	3744.7	3571.7	3454.1	3450.7	3329.6	3298.5	3313.5	3776.9	4338.4
35°	4081.3	4087.1	4016.7	3866.9	3732.0	3712.4	3631.7	3592.5	3548.7	4053.6	4663.5
37.5°	4330.3	4343.0	4338.4	4209.3	4044.4	4049.0	4030.6	3966.0	3849.6	4362.6	5024.4
40°	4604.7	4614.0	4612.8	4563.2	4476.8	4481.4	4474.5	4400.7	4226.6	4755.8	5425.6
42.5°	4984.0	4940.2	4826.1	4875.7	4926.4	4948.3	4995.6	4925.2	4686.6	5175.4	5802.6
45°	5408.3	5325.3	5067.1	5090.1	5278.0	5319.5	5580.1	5483.3	5185.8	5657.3	6246.5
47.5°	5675.8	5593.9	5376.0	5371.4	5620.5	5660.8	6122.0	6086.2	5640.1	6177.3	6788.4
50°	5914.4	5902.9	5657.3	5716.1	5959.4	6019.4	6712.3	6678.8	6093.1	6790.7	7378.6
52.5°	6268.4	6175.0	5979.0	6100.1	6421.7	6500.1	7297.9	7199.9	6509.3	7332.5	7951.6
55°	6427.5	6405.6	6394.1	6499.0	6940.5	6997.0	7867.5	7642.7	6864.4	7791.4	8387.4
57.5°	6852.9	6812.6	6926.7	6998.2	7551.6	7638.0	8462.4	8105.0	7175.7	8155.7	8599.6
60°	7404.0	7382.1	7487.0	7616.1	8234.1	8365.5	9140.3	8499.3	7425.9	8339.0	8483.1
62.5°	8227.2	8224.9	8205.3	8482.0	9201.4	9322.5	9918.5	8883.2	7465.1	8201.8	7881.3
65°	9407.8	9366.3	9195.6	9497.7	10405.0	10546.8	10729.0	9097.6	7228.8	7497.4	6636.2
67.5°	10642.5	10640.2	10501.9	10893.9	12133.3	12279.7	11742.4	9050.4	6572.8	6073.5	4713.1
70°	11666.3	11616.8	11793.1	12837.7	14341.1	14510.6	12629.0	8493.5	5235.4	4011.0	2800.4
72.5°	11911.9	11914.2	12280.8	14336.5	16461.3	16487.8	12948.4	6884.0	3503.7	2212.4	1400.8
74°	11155.6	11175.2	11743.6	14411.4	16856.7	16736.8	12132.1	5410.6	2369.2	1444.6	1010.0
75°	10182.5	10059.2	10881.2	13912.2	16446.3	16317.2	11176.3	4341.9	1807.8	1154.1	884.3
77.5°	5444.1	5569.7	6837.9	10382.0	13361.1	13212.4	7578.1	2082.2	976.5	803.6	636.4
80°	1938.0	2137.5	3004.5	5432.5	8566.1	8612.3	3616.7	954.6	687.1	592.6	449.6
82.5°	790.9	812.8	1290.1	2410.7	4349.9	4391.4	1476.9	567.2	491.1	408.1	268.6
85°	309.0	318.2	570.7	1083.7	1856.2	1977.2	510.7	299.8	302.1	234.0	137.2
87.5°	103.8	117.6	234.0	360.9	630.6	618.0	148.7	88.8	108.4	101.5	42.7
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°	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4
2.5°	3187.8	3209.7	3224.7	3240.8	3255.8	3260.4	3257.0	3267.4	3268.5	3269.7	3270.8
5°	3206.3	3236.2	3265.0	3281.2	3288.1	3282.3	3262.7	3252.4	3243.1	3236.2	3238.5
7.5°	3231.6	3274.3	3300.8	3307.7	3289.3	3262.7	3214.3	3176.3	3152.1	3135.9	3134.8
10°	3270.8	3312.3	3334.2	3314.6	3263.9	3199.3	3123.2	3051.8	2997.6	2981.4	2980.3
12.5°	3320.4	3367.7	3366.5	3308.9	3220.1	3104.8	2981.4	2898.4	2824.6	2787.7	2802.7
15°	3385.0	3420.7	3387.3	3283.5	3142.8	2984.9	2832.7	2719.7	2636.7	2597.5	2599.8
17.5°	3459.9	3491.0	3402.2	3238.5	3034.5	2831.6	2655.2	2547.9	2482.2	2453.4	2451.1
20°	3553.3	3562.5	3402.2	3160.1	2895.0	2652.9	2484.5	2409.6	2372.7	2357.7	2362.3
22.5°	3653.6	3635.1	3383.8	3049.5	2711.7	2466.1	2353.1	2319.7	2301.2	2298.9	2301.2
25°	3766.6	3714.7	3345.8	2899.6	2520.3	2304.7	2239.0	2244.7	2248.2	2248.2	2256.3
27.5°	3904.9	3801.2	3282.3	2710.5	2296.6	2154.8	2136.3	2176.7	2195.1	2198.6	2204.4
30°	4087.1	3895.7	3177.4	2474.2	2106.4	2019.9	2052.2	2106.4	2127.1	2139.8	2137.5
32.5°	4303.8	3999.5	3035.6	2237.8	1953.0	1925.4	1964.6	2019.9	2043.0	2049.9	2040.7
35°	4558.6	4117.1	2848.8	2016.4	1819.3	1835.4	1881.6	1898.8	1919.6	1919.6	1924.2
37.5°	4833.0	4211.6	2620.6	1813.5	1715.5	1774.3	1807.8	1791.6	1782.4	1770.9	1776.6
40°	5112.0	4281.9	2324.3	1612.9	1611.8	1710.9	1720.1	1674.0	1637.1	1625.6	1619.8
42.5°	5355.3	4325.7	2056.8	1457.3	1513.8	1648.7	1655.6	1581.8	1523.0	1488.4	1476.9
45°	5642.4	4376.5	1795.1	1328.2	1422.7	1599.1	1616.4	1517.2	1430.8	1358.1	1339.7
47.5°	6035.5	4491.7	1588.7	1227.9	1357.0	1568.0	1592.2	1464.2	1350.1	1255.5	1240.5
50°	6479.4	4649.7	1428.5	1159.8	1306.3	1540.3	1570.3	1410.0	1275.1	1170.2	1158.7
52.5°	6886.3	4735.0	1290.1	1098.7	1256.7	1489.6	1541.4	1370.8	1201.3	1084.9	1074.5
55°	7108.9	4596.7	1154.1	1038.8	1188.7	1423.8	1501.1	1316.6	1129.9	1039.9	1024.9
57.5°	7138.8	4310.7	1030.7	974.2	1117.2	1343.1	1426.2	1250.9	1083.7	1008.8	996.1
60°	6907.1	3884.2	935.0	921.2	1044.5	1252.1	1342.0	1193.3	1036.5	974.2	961.5
62.5°	6330.6	3420.7	868.1	872.8	970.8	1156.4	1279.7	1137.9	991.5	936.2	924.6
65°	5339.1	2823.5	803.6	823.2	905.0	1081.4	1223.2	1091.8	946.5	907.3	897.0
67.5°	3708.9	2038.4	750.5	771.3	842.8	1005.3	1157.5	1042.2	895.8	875.1	858.9
70°	2053.3	1254.4	688.3	712.5	778.2	920.0	1083.7	967.3	822.0	812.8	789.7
72.5°	1079.1	799.0	618.0	644.5	690.6	810.5	970.8	885.4	749.4	710.2	680.2
74°	842.8	654.9	570.7	598.4	629.5	745.9	903.9	826.6	697.5	651.4	628.3
75°	734.4	583.4	530.3	566.1	593.8	702.1	852.0	785.1	668.7	624.9	604.1
77.5°	518.8	437.0	433.5	476.2	491.1	615.7	767.8	714.8	596.1	549.9	530.3
80°	364.3	327.4	343.6	370.1	390.8	544.2	712.5	618.0	488.8	434.6	427.7
82.5°	237.5	214.4	245.6	269.8	276.7	401.2	575.3	469.2	356.3	289.4	268.6
85°	109.5	107.2	140.7	137.2	136.0	196.0	341.3	274.4	205.2	153.3	144.1
87.5°	27.7	26.5	34.6	28.8	34.6	30.0	31.1	8.1	1.2	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)