

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: P454181

Luminaire Tested: **GALN-SA5B-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26100 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

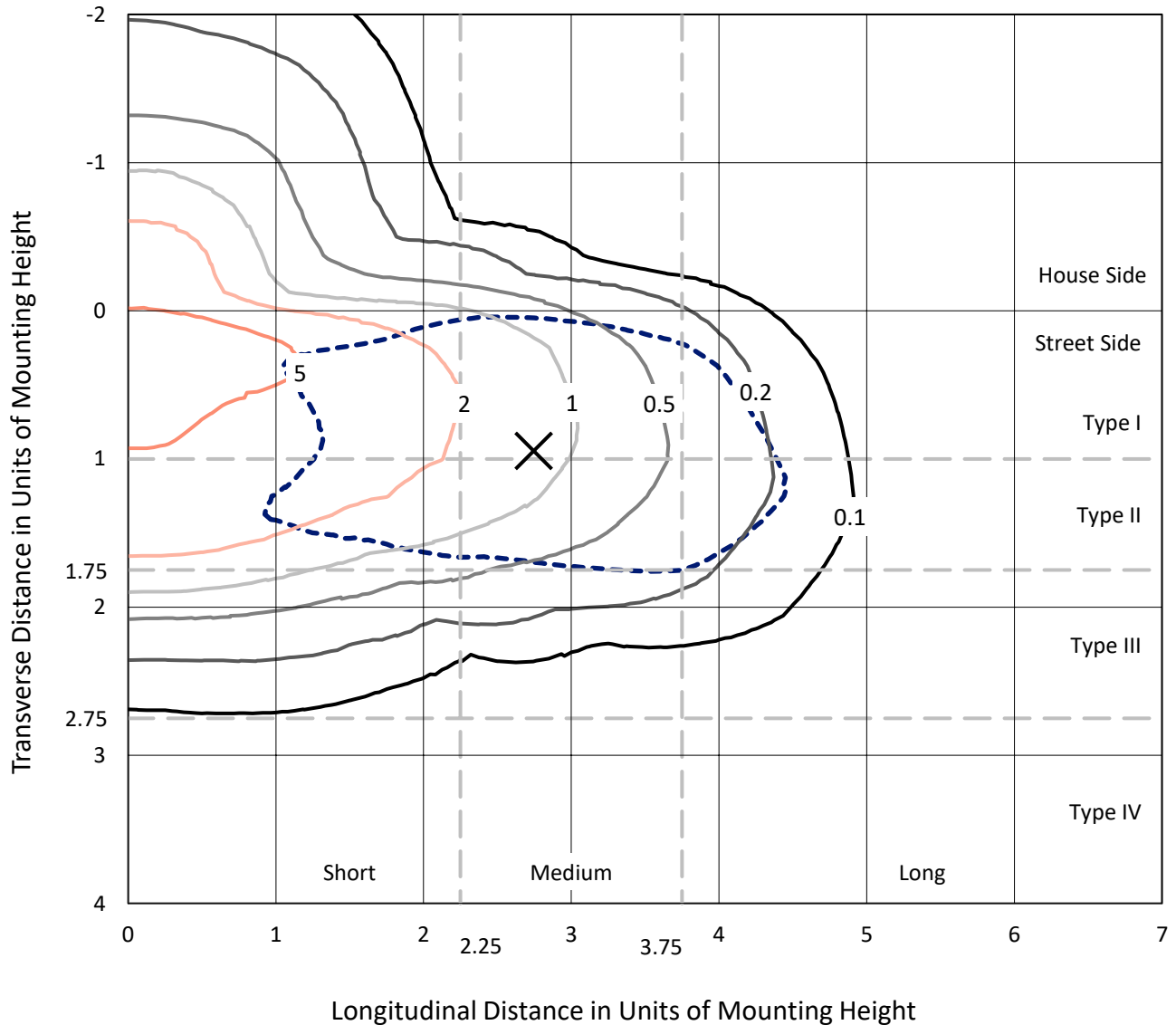
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454181  
 CATALOG NUMBER: GALN-SA5B-730-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

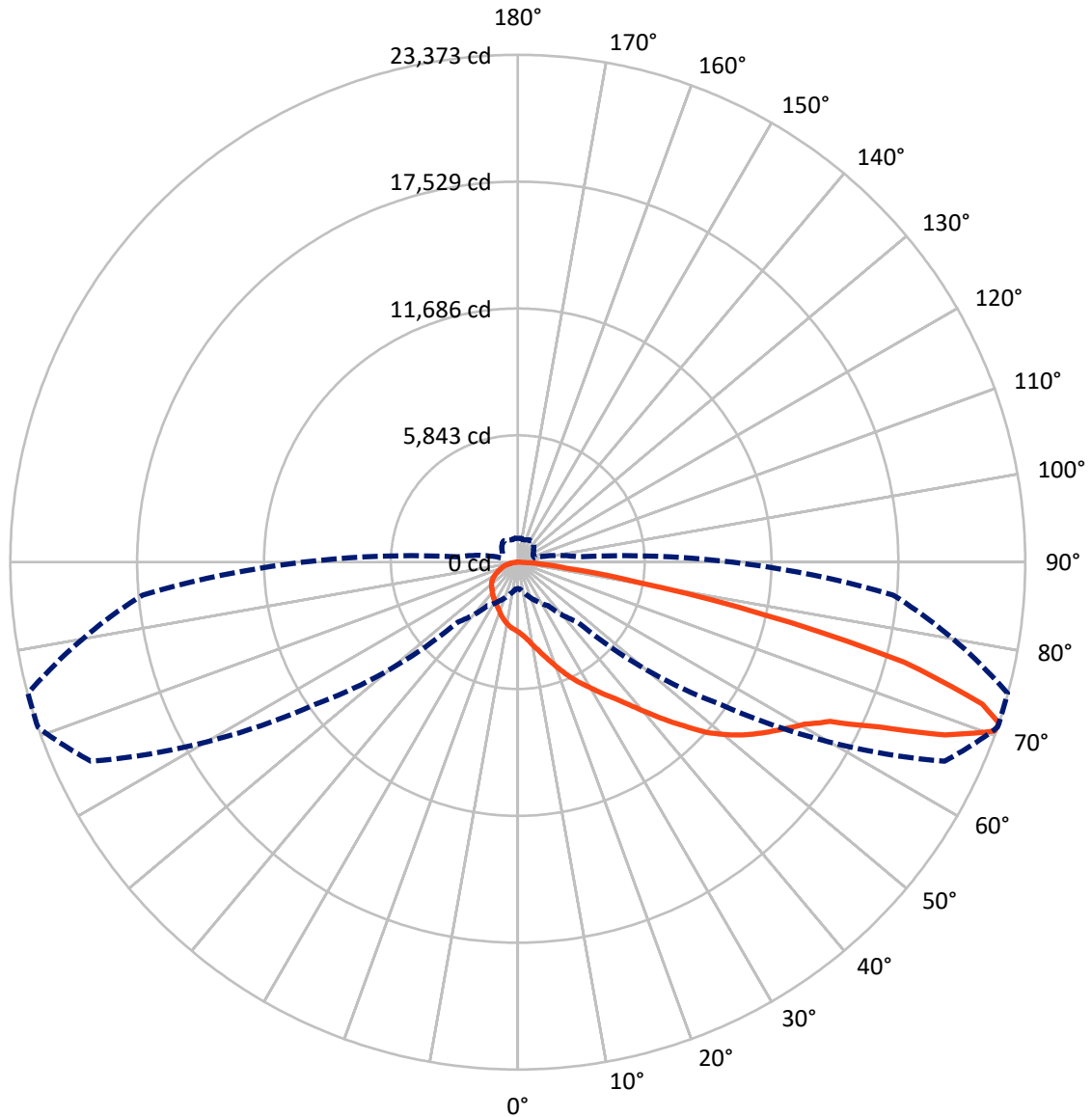
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P454181  
CATALOG NUMBER: GALN-SA5B-730-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P454181

CATALOG NUMBER: GALN-SA5B-730-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4694.0	0.0	4694.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	21406.0	0.0	21406.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	26100.0	0.0	26100.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.6	1.2
10°-20°	1044.9	4.0
20°-30°	1826.1	7.0
30°-40°	2716.1	10.4
40°-50°	4001.9	15.3
50°-60°	5602.7	21.5
60°-70°	6266.4	24.0
70°-80°	3827.8	14.7
80°-90°	492.4	1.9
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°	26100.0	100.0
0°-180°	26100.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454181

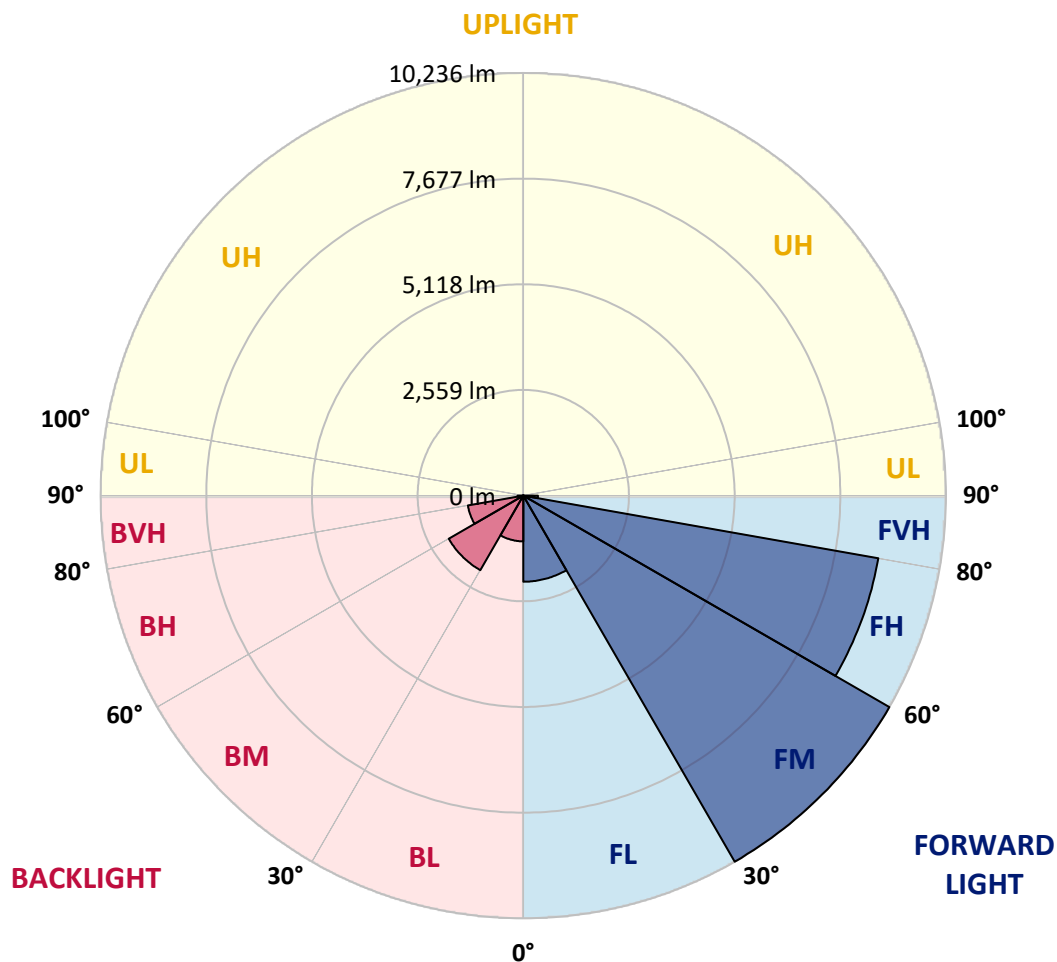
CATALOG NUMBER: GALN-SA5B-730-U-T2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2085.4	8.0			
FM	(30°-60°)	10235.9	39.2			
FH	(60°-80°)	8730.4	33.4			G4/12000
FVH	(80°-90°)	354.3	1.4			G3/500
BL	(0°-30°)	1107.3	4.2	B3/2500		
BM	(30°-60°)	2084.8	8.0	B2/2500		
BH	(60°-80°)	1363.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	138.1	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 II Medium





REPORT NUMBER: P454181

CATALOG NUMBER: GALN-SA5B-730-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3
2.5°	3556.1	3538.9	3540.4	3516.0	3484.4	3450.0	3401.2	3358.2	3323.8	3303.7	3244.9
5°	3940.6	3923.4	3901.9	3848.8	3825.8	3741.2	3633.6	3536.1	3461.5	3419.9	3302.2
7.5°	4251.9	4247.6	4241.8	4211.7	4152.9	4035.3	3943.5	3774.2	3663.7	3584.8	3384.0
10°	4444.1	4451.3	4455.6	4461.3	4436.9	4375.3	4249.0	4035.3	3894.7	3794.3	3490.2
12.5°	4541.7	4548.8	4573.2	4626.3	4659.3	4652.1	4548.8	4339.4	4145.7	4013.8	3603.5
15°	4601.9	4613.4	4656.4	4726.7	4837.2	4907.5	4857.2	4663.6	4451.3	4294.9	3738.3
17.5°	4667.9	4680.8	4728.1	4828.6	4973.4	5125.5	5180.0	5013.6	4782.7	4596.2	3889.0
20°	4705.2	4722.4	4789.8	4921.8	5091.1	5312.0	5492.7	5405.2	5152.8	4946.2	4062.5
22.5°	4765.4	4779.8	4837.2	4977.7	5180.0	5456.9	5805.5	5786.8	5564.5	5297.6	4253.3
25°	4929.0	4951.9	4980.6	5065.3	5260.3	5604.6	6065.1	6194.2	5963.3	5664.9	4428.3
27.5°	5237.4	5256.0	5254.6	5266.1	5376.5	5732.3	6290.3	6597.3	6359.2	6036.4	4597.6
30°	5588.8	5596.0	5601.8	5575.9	5600.3	5862.8	6496.9	6996.1	6758.0	6418.0	4745.4
32.5°	6016.3	6030.7	5981.9	5915.9	5895.8	6056.5	6667.6	7394.9	7229.9	6805.3	4891.7
35°	6521.3	6558.6	6459.6	6343.4	6261.6	6334.8	6897.1	7802.3	7713.4	7300.2	5085.3
37.5°	7098.0	7143.9	7052.0	6824.0	6707.8	6727.9	7196.9	8305.8	8324.5	7864.0	5373.7
40°	7569.9	7630.2	7633.0	7310.3	7133.8	7156.8	7577.1	8848.1	9061.8	8561.2	5713.7
42.5°	7881.2	7940.0	8001.7	7812.3	7627.3	7757.8	8020.3	9436.2	9890.9	9407.5	6188.5
45°	8222.6	8275.7	8310.1	8224.0	8120.8	8459.3	8555.4	10061.7	10774.6	10352.9	6707.8
47.5°	8618.5	8677.3	8710.3	8628.6	8589.8	9074.7	9132.1	10645.5	11718.5	11270.9	7281.6
50°	9146.4	9190.9	9173.7	9122.0	9113.4	9546.7	9685.8	11192.0	12497.4	12259.3	7876.9
52.5°	9803.4	9856.5	9875.2	9802.0	9769.0	9883.8	10131.9	11689.8	13206.1	13108.5	8512.4
55°	10200.8	10285.4	10569.5	10684.2	10763.1	10319.9	10612.5	12239.2	13841.6	14003.7	9195.2
57.5°	9691.5	9800.6	10436.1	11009.9	11751.5	11410.1	11293.9	12813.0	14477.1	14871.6	10012.9
60°	8449.3	8473.6	9292.8	10350.0	11841.9	12811.6	12715.5	13725.4	15165.6	15746.6	11090.2
62.5°	5861.4	5913.0	6881.3	8568.3	10725.8	13316.6	15134.1	15300.5	16152.6	17056.3	12669.6
65°	3022.5	2955.1	3837.3	5385.1	8086.3	12117.3	17093.6	18196.8	18292.9	19104.8	14893.1
67.5°	1860.6	1890.7	2303.8	3144.4	4781.2	8806.5	16888.5	21735.7	21229.3	21619.5	16957.3
70°	1397.2	1434.5	1718.5	2151.8	2914.9	5035.1	13581.9	22593.5	23300.7	23200.3	17585.7
71°	1215.0	1253.8	1549.3	1958.1	2448.7	3886.1	11443.1	21695.5	23372.5	23355.3	17349.0
72.5°	1035.7	1060.1	1291.1	1658.3	2064.3	2724.1	8597.0	19457.7	22375.5	22947.9	16504.0
75°	813.4	832.0	935.3	1265.2	1625.3	1672.6	4613.4	14587.5	18377.5	19467.7	13739.7
77.5°	662.7	675.7	728.7	939.6	1253.8	1184.9	2420.0	9495.0	11513.4	12610.8	8093.5
80°	526.5	540.8	572.4	636.9	939.6	844.9	1154.8	4811.3	5561.6	5550.1	3230.5
82.5°	408.8	413.1	450.4	467.7	642.7	599.6	625.4	2037.0	2256.5	2331.1	1166.3
85°	258.2	271.1	398.8	358.6	384.4	351.5	308.4	809.1	997.0	982.6	466.2
87.5°	78.9	83.2	134.8	152.1	170.7	153.5	113.3	238.1	291.2	315.6	116.2
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: P454181

CATALOG NUMBER: GALN-SA5B-730-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3	3203.3
2.5°	3221.9	3206.1	3150.2	3104.3	3061.2	3013.9	2973.7	2962.3	2952.2	2947.9	2946.5
5°	3252.0	3204.7	3094.2	3003.9	2932.1	2866.2	2824.5	2805.9	2787.3	2787.3	2793.0
7.5°	3295.1	3209.0	3038.3	2903.4	2813.1	2751.4	2721.3	2718.4	2722.7	2727.0	2728.4
10°	3342.4	3206.1	2956.5	2788.7	2708.4	2679.7	2681.1	2705.5	2728.4	2745.7	2748.5
12.5°	3388.3	3188.9	2860.4	2681.1	2629.5	2635.2	2675.4	2729.9	2774.3	2798.7	2800.2
15°	3440.0	3161.7	2744.2	2579.2	2562.0	2606.5	2681.1	2764.3	2831.7	2871.9	2876.2
17.5°	3483.0	3115.8	2622.3	2480.3	2501.8	2583.6	2686.8	2794.4	2876.2	2926.4	2935.0
20°	3531.8	3056.9	2496.0	2385.6	2447.3	2557.7	2675.4	2791.6	2876.2	2925.0	2936.4
22.5°	3570.5	2973.7	2375.5	2308.1	2398.5	2526.2	2636.6	2729.9	2798.7	2824.5	2841.8
25°	3586.3	2869.0	2262.2	2245.0	2359.8	2474.5	2549.1	2602.2	2623.7	2620.8	2628.0
27.5°	3577.7	2748.5	2164.7	2194.8	2311.0	2394.2	2431.5	2427.2	2388.5	2352.6	2369.8
30°	3541.8	2605.1	2082.9	2143.2	2247.9	2293.8	2288.0	2232.1	2158.9	2091.5	2095.8
32.5°	3477.3	2450.1	2006.9	2084.3	2158.9	2179.0	2140.3	2067.1	1962.4	1874.9	1862.0
35°	3422.7	2302.4	1939.5	2016.9	2070.0	2060.0	2022.7	1928.0	1833.3	1755.8	1742.9
37.5°	3414.1	2176.2	1874.9	1940.9	1971.0	1956.7	1910.8	1830.4	1796.0	1737.2	1730.0
40°	3460.0	2087.2	1808.9	1860.6	1874.9	1863.4	1813.2	1767.3	1798.9	1784.5	1784.5
42.5°	3584.8	2039.9	1750.1	1780.2	1791.7	1800.3	1764.4	1725.7	1764.4	1698.5	1676.9
45°	3782.8	2041.3	1697.0	1701.3	1735.8	1765.9	1741.5	1684.1	1664.0	1532.1	1506.2
47.5°	4074.0	2090.1	1654.0	1626.7	1688.4	1738.6	1704.2	1621.0	1532.1	1444.6	1428.8
50°	4414.0	2177.6	1615.3	1549.3	1625.3	1704.2	1678.4	1580.8	1489.0	1435.9	1425.9
52.5°	4791.3	2288.0	1567.9	1463.2	1547.8	1688.4	1684.1	1575.1	1448.9	1413.0	1404.4
55°	5257.5	2397.1	1509.1	1362.8	1479.0	1675.5	1668.3	1527.8	1440.2	1414.4	1411.6
57.5°	5799.7	2554.9	1424.5	1260.9	1400.1	1622.4	1606.7	1499.1	1411.6	1392.9	1391.5
60°	6673.3	2800.2	1304.0	1167.7	1319.7	1529.2	1549.3	1450.3	1365.7	1361.3	1359.9
62.5°	7822.4	3144.4	1179.2	1071.6	1226.5	1408.7	1466.1	1384.3	1316.9	1338.4	1341.3
65°	9408.9	3434.2	1050.1	989.8	1123.2	1292.5	1387.2	1322.6	1262.4	1304.0	1304.0
67.5°	10443.2	3440.0	932.4	905.2	1018.5	1194.9	1304.0	1249.5	1192.1	1262.4	1265.2
70°	10228.1	3013.9	834.9	816.2	916.7	1090.2	1212.2	1169.1	1103.1	1166.3	1143.3
71°	9880.9	2777.2	796.2	781.8	876.5	1040.0	1169.1	1133.3	1067.3	1108.9	1096.0
72.5°	9327.2	2411.4	733.0	735.9	816.2	976.9	1108.9	1071.6	1005.6	1028.5	1024.2
75°	7884.1	2105.9	626.9	639.8	701.5	869.3	988.4	959.7	892.3	892.3	888.0
77.5°	4929.0	1471.8	520.7	527.9	595.3	744.5	849.2	824.8	760.3	738.8	733.0
80°	1839.0	760.3	407.4	416.0	457.6	586.7	702.9	680.0	614.0	589.6	566.6
82.5°	695.7	381.6	299.8	292.6	337.1	447.6	550.9	523.6	472.0	413.1	395.9
85°	262.5	189.4	183.6	177.9	198.0	265.4	341.4	335.7	281.2	239.6	235.3
87.5°	68.9	61.7	71.7	53.1	55.9	50.2	51.6	21.5	10.0	4.3	2.9
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)