

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: P452329

Luminaire Tested: **GALN-SA3B-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15341 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

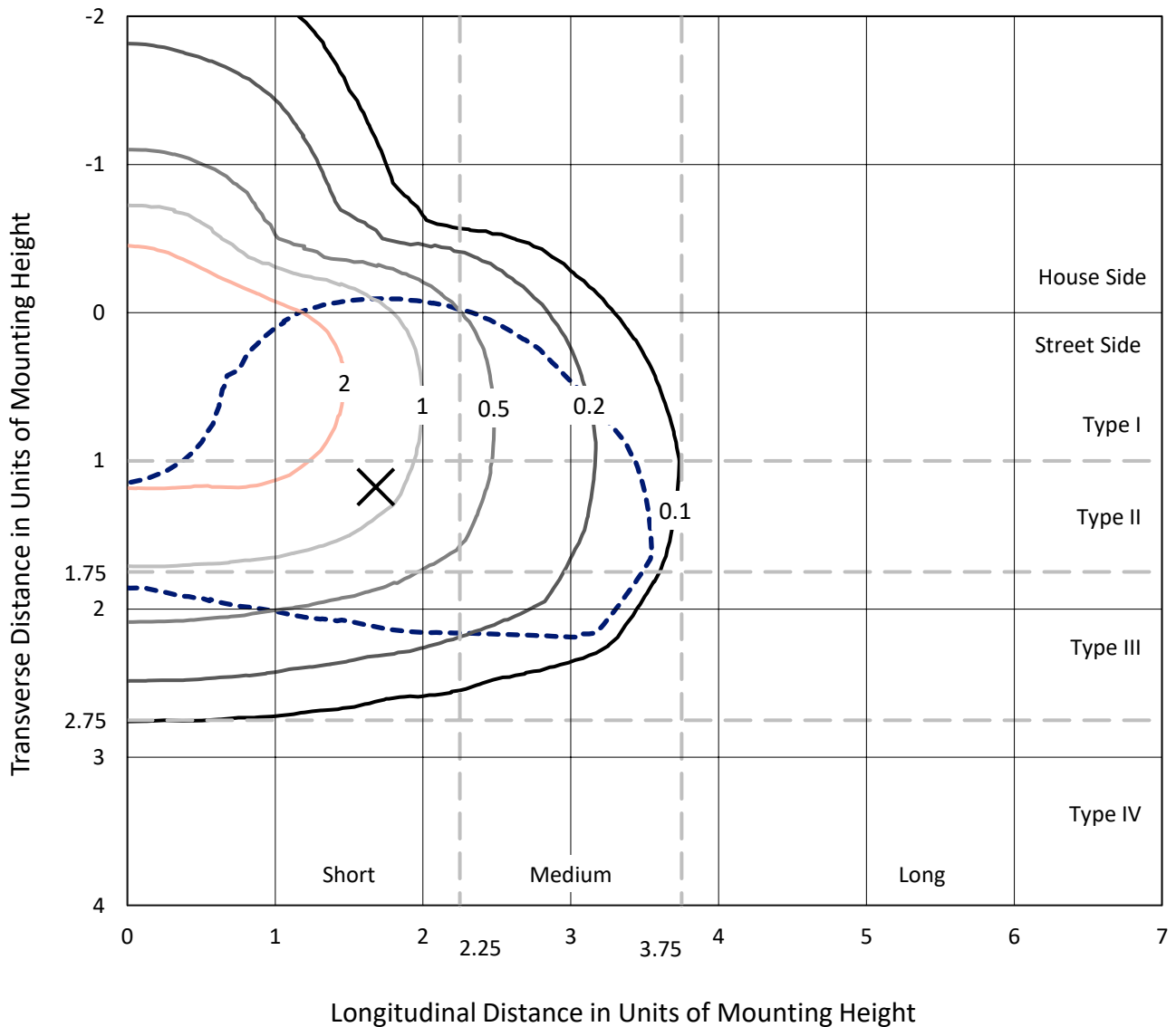
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452329  
 CATALOG NUMBER: GALN-SA3B-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

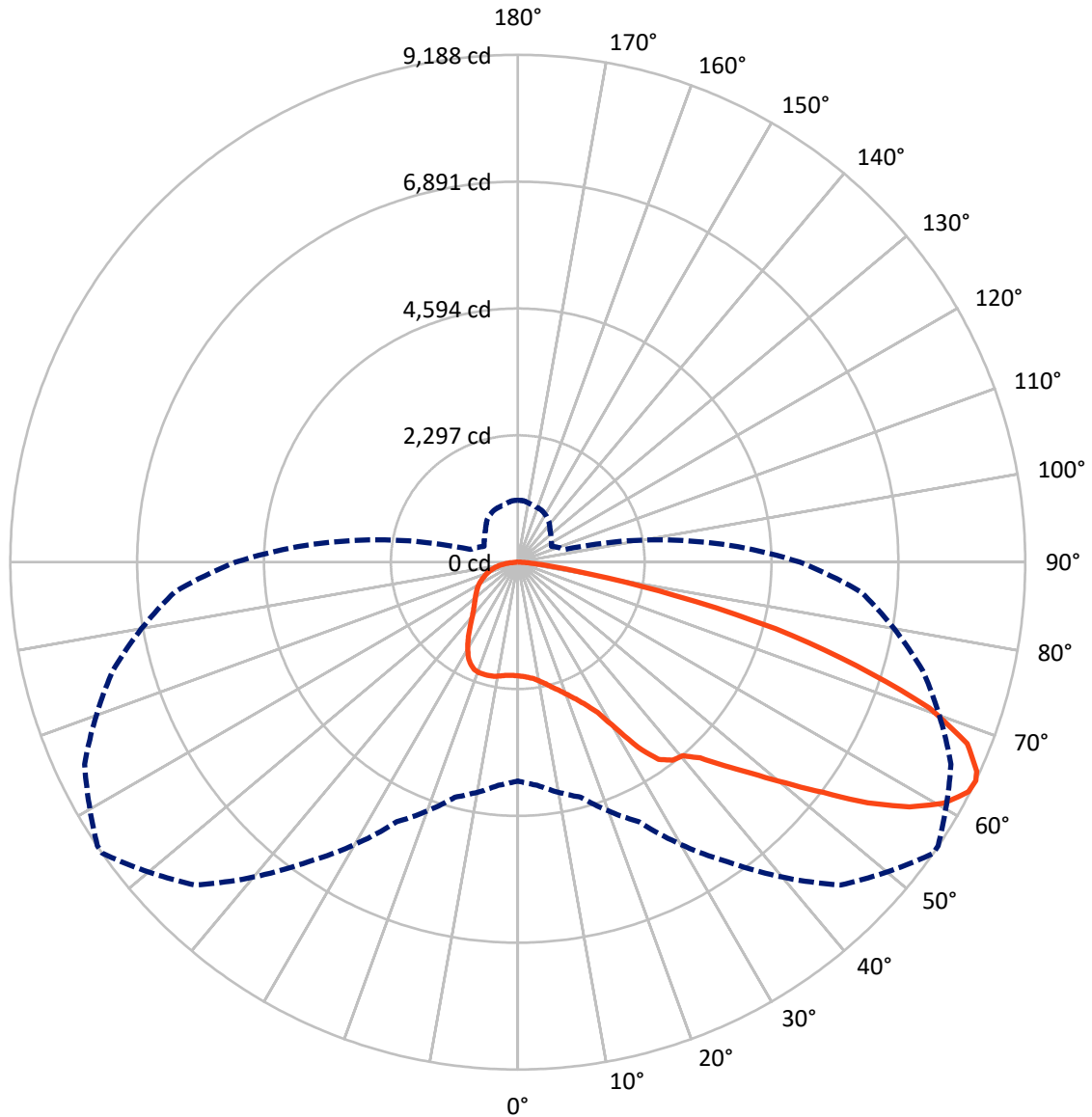
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P452329  
CATALOG NUMBER: GALN-SA3B-730-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P452329

CATALOG NUMBER: GALN-SA3B-730-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3726.6	0.0	3726.6
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	11614.4	0.0	11614.4
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	15341.0	0.0	15341.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.2	1.3
10°-20°	631.7	4.1
20°-30°	1124.7	7.3
30°-40°	1730.4	11.3
40°-50°	2453.0	16.0
50°-60°	3550.7	23.1
60°-70°	3674.6	24.0
70°-80°	1720.8	11.2
80°-90°	254.7	1.7
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°	15341.0	100.0
0°-180°	15341.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452329

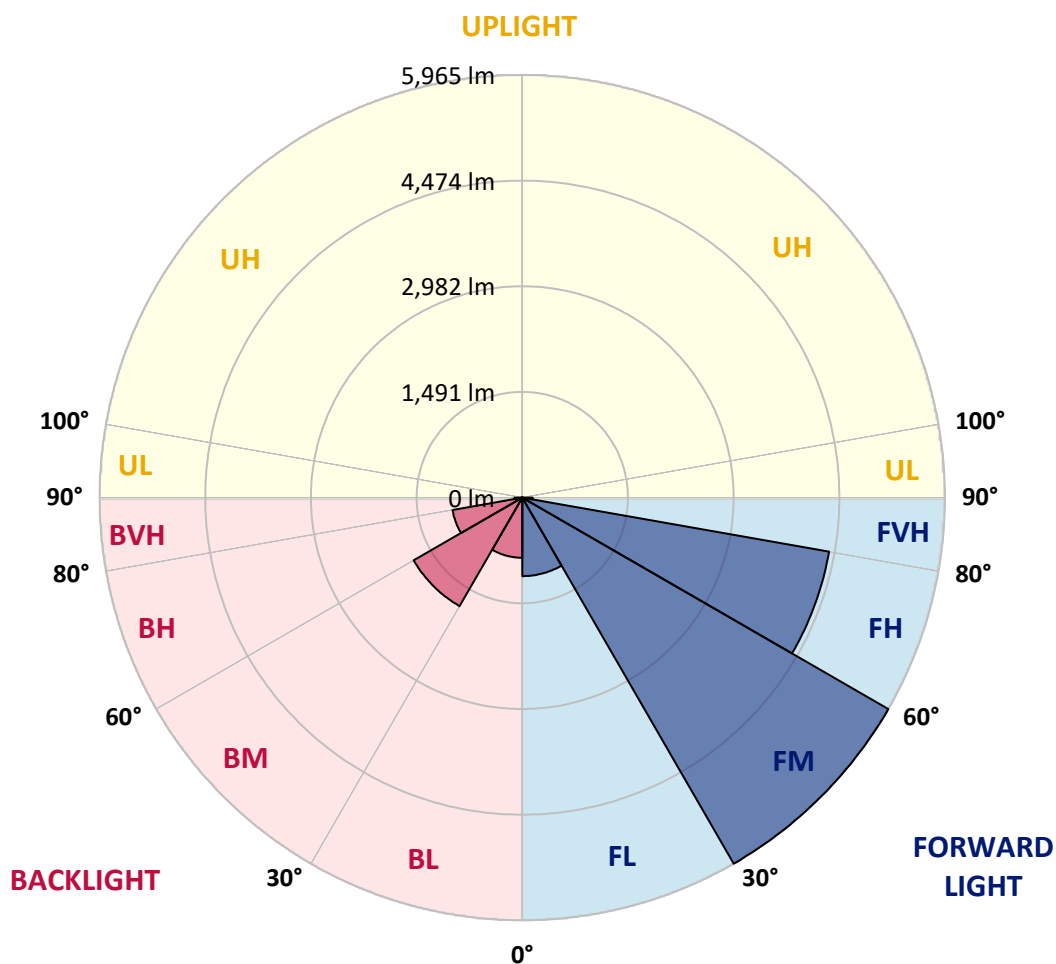
CATALOG NUMBER: GALN-SA3B-730-U-T3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1107.9	7.2			
FM	(30°-60°)	5965.0	38.9			
FH	(60°-80°)	4395.6	28.7			G2/5000
FVH	(80°-90°)	145.9	1.0			G2/225
BL	(0°-30°)	848.8	5.5	B2/1000		
BM	(30°-60°)	1769.2	11.5	B2/2500		
BH	(60°-80°)	999.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	108.9	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





REPORT NUMBER: P452329

CATALOG NUMBER: GALN-SA3B-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3
2.5°	2081.4	2080.5	2083.1	2080.5	2082.2	2076.3	2073.7	2075.4	2072.8	2068.6	2060.9
5°	2107.0	2106.2	2107.0	2103.6	2105.3	2101.9	2095.9	2097.6	2093.4	2084.0	2072.8
7.5°	2150.7	2147.2	2147.2	2146.4	2143.0	2137.8	2133.6	2131.8	2127.6	2115.6	2098.5
10°	2207.1	2207.1	2207.9	2201.1	2205.4	2196.0	2191.7	2190.8	2176.3	2160.9	2137.0
12.5°	2281.5	2285.8	2283.2	2279.8	2278.1	2274.6	2260.1	2263.5	2247.3	2220.8	2191.7
15°	2373.8	2380.7	2376.4	2374.7	2370.4	2357.6	2351.6	2349.0	2327.7	2289.2	2250.7
17.5°	2496.1	2487.6	2484.2	2479.9	2461.9	2452.5	2442.3	2440.5	2421.7	2376.4	2316.5
20°	2603.0	2615.0	2608.1	2603.9	2585.9	2568.0	2560.3	2557.7	2541.4	2491.9	2396.1
22.5°	2730.4	2733.0	2735.6	2725.3	2716.7	2703.1	2689.4	2685.1	2679.1	2627.8	2510.7
25°	2866.4	2876.7	2868.1	2857.8	2847.6	2846.7	2859.6	2857.8	2855.3	2805.7	2662.9
27.5°	3087.9	3097.3	3099.8	3088.7	3049.4	3052.8	3081.9	3091.3	3130.6	3048.5	2858.7
30°	3212.7	3222.1	3243.5	3285.4	3347.8	3402.6	3472.7	3494.1	3531.7	3376.9	3091.3
32.5°	3289.7	3293.1	3331.6	3409.4	3596.7	3801.1	3991.7	3999.4	4023.4	3806.2	3304.2
35°	3411.1	3413.7	3444.5	3530.0	3749.7	4090.1	4385.1	4394.5	4374.8	3939.6	3403.4
37.5°	3560.8	3567.6	3587.3	3658.2	3920.8	4332.1	4548.4	4541.6	4367.2	4045.6	3578.7
40°	3778.8	3778.8	3755.7	3851.5	4101.2	4470.6	4605.7	4593.8	4547.6	4352.6	3845.5
42.5°	3971.2	3967.8	4022.5	4087.5	4327.0	4684.4	4846.0	4865.7	4941.8	4738.3	4149.1
45°	4221.8	4237.2	4268.0	4386.0	4710.9	5049.5	5258.2	5277.0	5384.8	5192.4	4504.0
47.5°	4474.9	4480.0	4576.7	4734.0	5186.4	5544.7	5715.7	5746.5	5844.8	5723.4	4886.2
50°	4654.5	4703.2	4858.0	5106.0	5676.4	6148.4	6281.8	6318.6	6492.2	6301.5	5331.7
52.5°	4844.3	4892.2	5081.2	5459.2	6239.0	6765.8	6930.0	6954.8	7135.2	6886.4	5787.5
55°	5006.8	5051.3	5265.9	5772.1	6687.1	7396.0	7693.6	7664.5	7750.9	7337.0	6139.0
57.5°	5033.3	5069.2	5339.4	5972.2	7024.0	7936.5	8363.2	8380.3	8280.2	7673.9	6428.9
60°	4828.1	4901.6	5212.0	5950.9	7175.4	8312.7	8862.6	8874.5	8590.6	7846.7	6544.3
62.5°	4464.6	4456.9	4832.3	5607.1	6963.3	8398.2	9156.7	9143.9	8712.1	7763.7	6432.3
64°	3962.7	4055.0	4405.6	5184.7	6621.3	8266.5	9187.5	9180.7	8653.9	7591.0	6241.6
65°	3656.5	3651.4	3997.7	4839.2	6280.9	8068.2	9132.8	9123.4	8532.5	7436.2	6093.7
67.5°	2639.8	2651.8	2993.8	3734.4	5106.0	7292.6	8776.2	8741.1	8053.6	6923.1	5531.0
70°	1599.1	1605.9	1874.4	2477.3	3665.1	5895.3	7910.8	7912.5	7320.8	6156.9	4707.5
72.5°	842.3	860.3	968.0	1406.7	2225.9	4136.3	6417.8	6570.0	6285.2	5254.8	3719.0
75°	468.6	471.2	547.3	693.5	1135.6	2314.8	4823.8	4867.4	4976.0	4229.5	2750.1
77.5°	357.4	362.6	386.5	448.1	618.3	1073.2	2919.4	3138.3	3506.9	2981.8	1569.2
80°	289.9	295.0	315.5	352.3	411.3	508.8	1356.2	1474.2	1877.0	1323.7	612.3
82.5°	225.8	222.3	248.8	272.8	299.3	301.0	556.7	615.7	764.5	569.5	265.1
85°	167.6	167.6	189.0	183.9	193.3	176.2	245.4	271.1	306.1	242.0	123.1
87.5°	66.7	73.5	124.0	111.2	86.4	69.3	90.6	95.8	106.0	94.9	51.3
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: P452329  
 CATALOG NUMBER: GALN-SA3B-730-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3	2058.3
2.5°	2061.7	2064.3	2058.3	2054.0	2052.3	2049.7	2047.2	2048.0	2051.5	2054.9	2054.0
5°	2072.0	2072.8	2062.6	2057.4	2054.0	2050.6	2050.6	2053.2	2060.0	2065.1	2065.1
7.5°	2097.6	2097.6	2083.1	2073.7	2068.6	2062.6	2060.9	2061.7	2066.9	2073.7	2074.5
10°	2137.8	2134.4	2115.6	2101.1	2091.6	2077.1	2064.3	2057.4	2060.0	2064.3	2064.3
12.5°	2186.6	2177.2	2153.2	2133.6	2110.5	2083.1	2056.6	2042.9	2042.1	2046.3	2044.6
15°	2238.7	2228.5	2195.1	2159.2	2119.0	2078.8	2047.2	2027.5	2012.1	2007.8	2017.3
17.5°	2299.4	2278.1	2231.9	2182.3	2122.4	2070.3	2020.7	1980.5	1953.1	1945.4	1948.0
20°	2373.0	2344.8	2282.3	2204.5	2119.9	2039.5	1962.5	1908.7	1864.2	1850.5	1852.2
22.5°	2474.7	2426.0	2334.5	2215.6	2098.5	1981.3	1874.4	1804.3	1750.5	1729.1	1741.9
25°	2590.2	2537.2	2384.1	2213.1	2042.9	1888.1	1770.1	1678.6	1629.9	1598.2	1605.1
27.5°	2749.2	2655.2	2437.1	2190.0	1963.4	1774.4	1637.6	1551.2	1506.7	1490.5	1498.2
30°	2952.8	2808.2	2494.4	2127.6	1837.7	1630.7	1504.2	1447.7	1421.2	1400.7	1407.5
32.5°	3099.8	2916.0	2507.2	2022.4	1701.7	1499.9	1413.5	1371.6	1342.6	1322.9	1327.2
35°	3205.0	3007.5	2501.3	1893.3	1559.8	1392.2	1341.7	1307.5	1260.5	1217.7	1210.0
37.5°	3346.1	3122.1	2457.6	1752.2	1419.5	1319.5	1283.6	1220.3	1152.7	1095.4	1092.9
40°	3562.5	3256.3	2364.4	1586.3	1299.8	1265.6	1222.0	1139.9	1067.2	1021.0	1017.6
42.5°	3785.7	3380.3	2237.9	1411.8	1201.5	1209.2	1156.1	1074.9	1030.4	1000.5	997.1
45°	4058.4	3514.6	2101.1	1260.5	1128.8	1156.1	1098.8	1051.8	1025.3	1005.6	1000.5
47.5°	4353.5	3652.3	1947.1	1124.5	1067.2	1107.4	1074.9	1053.5	1039.0	1025.3	1019.3
50°	4671.6	3806.2	1802.6	1015.0	1011.6	1056.9	1072.3	1064.6	1056.1	1051.8	1046.7
52.5°	5020.5	3963.5	1681.2	938.1	962.9	1021.0	1073.2	1079.2	1079.2	1076.6	1073.2
55°	5256.5	4073.0	1558.0	875.7	913.3	992.0	1071.5	1094.6	1103.1	1099.7	1096.3
57.5°	5430.9	4132.8	1403.3	821.8	871.4	963.7	1062.1	1096.3	1104.8	1109.1	1107.4
60°	5466.8	4077.3	1200.6	765.3	826.1	922.7	1027.9	1070.6	1081.7	1108.2	1110.8
62.5°	5305.2	3906.2	998.8	709.8	770.5	860.3	981.7	1041.5	1063.8	1104.8	1109.1
64°	5106.8	3714.7	886.8	674.7	734.6	825.2	958.6	1033.9	1062.9	1117.7	1121.1
65°	4961.5	3575.3	816.6	652.5	711.5	802.1	945.8	1036.4	1070.6	1137.3	1142.5
67.5°	4426.2	3095.6	675.6	600.3	656.7	762.8	948.3	1057.8	1068.9	1145.0	1144.2
70°	3662.5	2464.5	566.1	552.4	603.7	731.1	938.1	1023.6	1024.4	1074.9	1062.9
72.5°	2742.4	1821.4	490.8	502.8	544.7	655.9	885.9	977.4	962.9	969.7	957.7
75°	1883.9	1204.9	422.4	449.8	483.1	579.8	812.4	887.6	864.5	856.0	847.4
77.5°	1005.6	666.1	351.5	397.6	419.9	501.1	708.9	781.6	757.6	724.3	713.2
80°	407.0	313.8	283.0	329.2	342.1	403.6	590.0	635.4	617.4	559.3	540.4
82.5°	204.4	188.1	222.3	259.1	260.0	288.2	438.7	481.4	441.2	370.3	354.0
85°	106.9	110.3	153.1	182.1	160.8	155.6	263.4	291.6	267.7	232.6	209.5
87.5°	38.5	44.5	80.4	79.5	56.4	29.9	58.1	28.2	15.4	9.4	12.0
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)