

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: P450707

Luminaire Tested: **GALN-SA1C-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6630 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

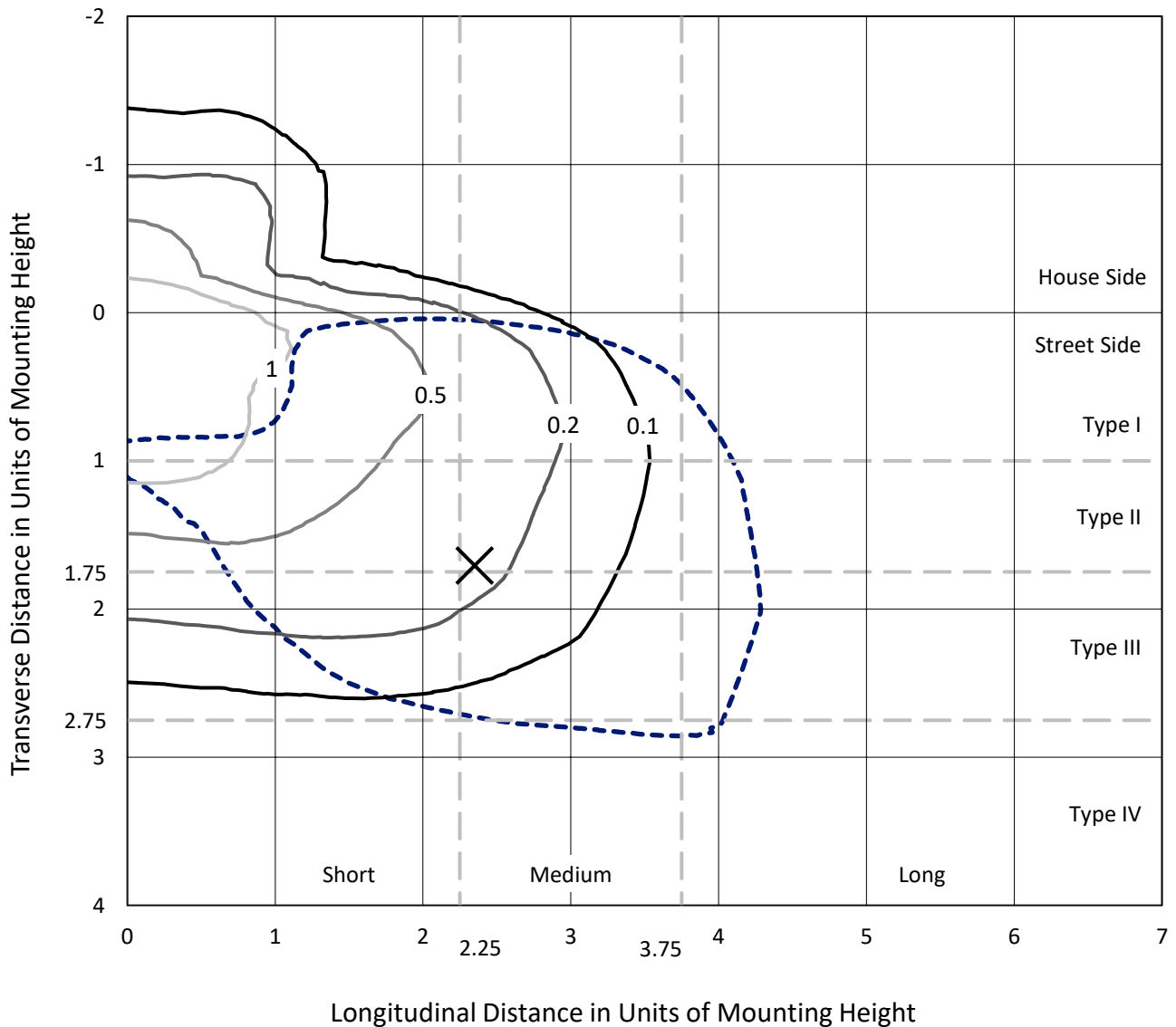
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

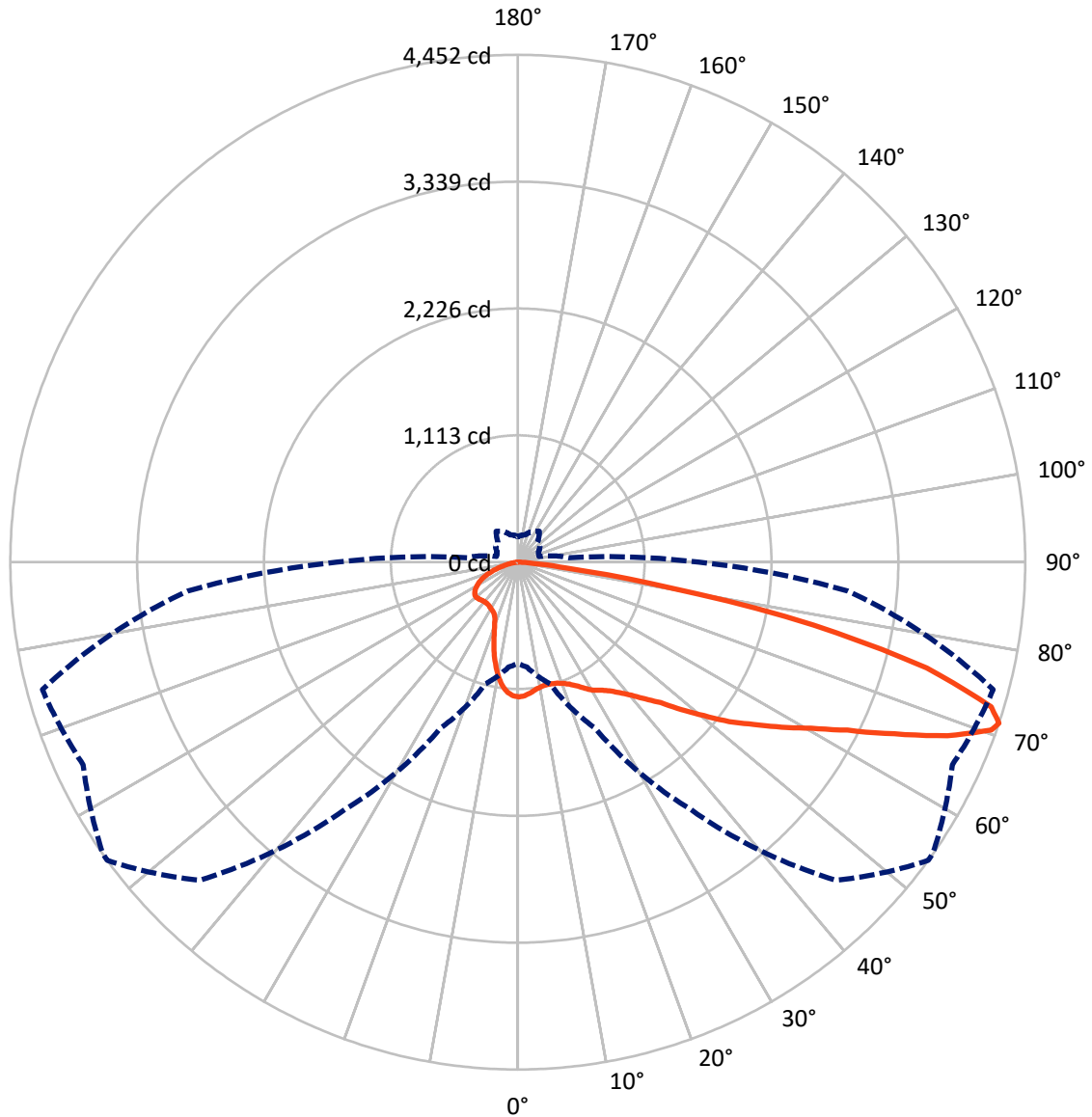
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1197.0	0.0	1197.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5433.0	0.0	5433.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6630.0	0.0	6630.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	1.6
10°-20°	278.3	4.2
20°-30°	463.5	7.0
30°-40°	685.3	10.3
40°-50°	965.3	14.6
50°-60°	1292.5	19.5
60°-70°	1629.1	24.6
70°-80°	1112.7	16.8
80°-90°	97.9	1.5
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°	6630.0	100.0
0°-180°	6630.0	100.0

**Coefficient of Utilization**



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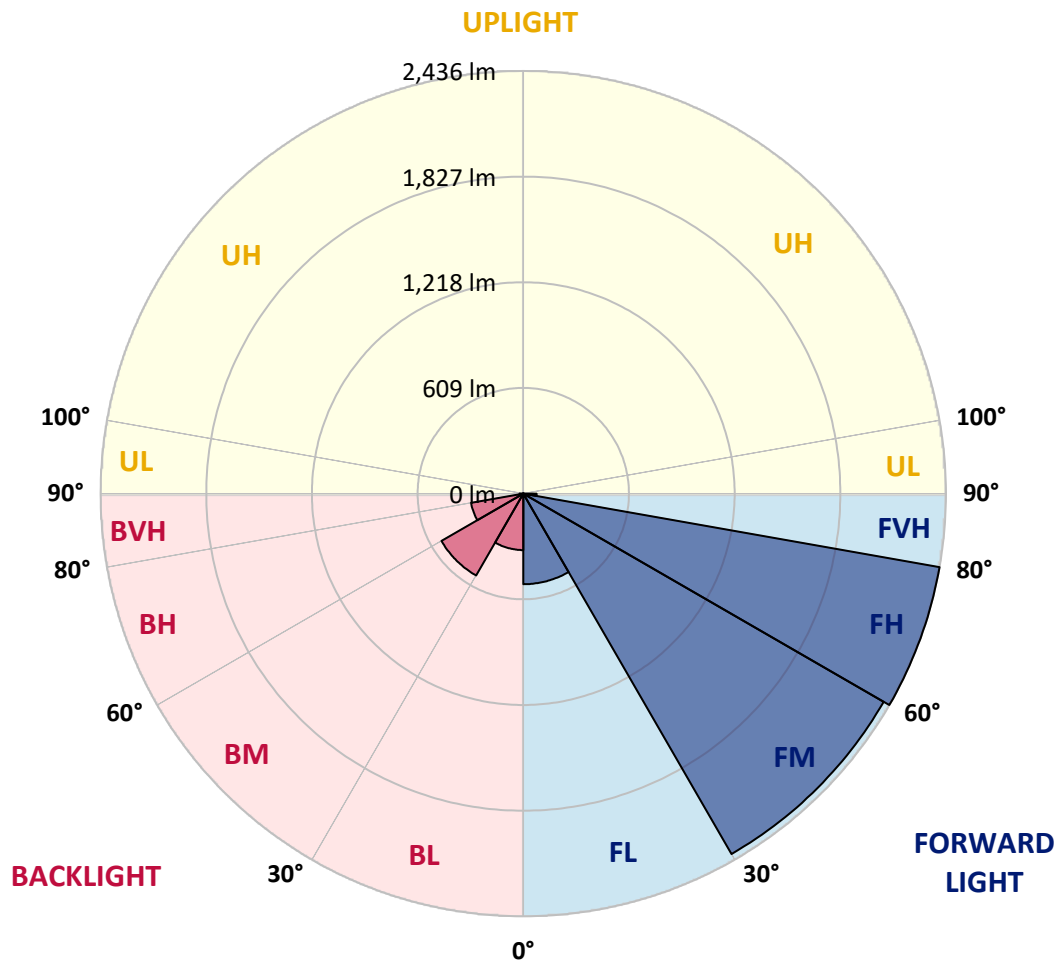
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.9	7.9			
FM (30°-60°)	2398.5	36.2			
FH (60°-80°)	2436.1	36.7			G2/5000
FVH (80°-90°)	76.5	1.2			G1/100
BL (0°-30°)	325.3	4.9	B1/500		
BM (30°-60°)	544.6	8.2	B1/1000		
BH (60°-80°)	305.7	4.6	B1/500		G1/500
BVH (80°-90°)	21.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9
2.5°	1142.8	1148.2	1149.6	1153.2	1160.7	1166.8	1172.9	1172.1	1180.7	1184.3	1187.5
5°	1091.9	1093.4	1098.7	1105.9	1119.1	1136.0	1152.4	1152.8	1173.9	1190.8	1199.0
7.5°	1054.7	1059.3	1062.9	1070.4	1084.4	1102.7	1128.8	1131.0	1168.6	1201.9	1219.4
10°	1030.3	1035.7	1039.6	1049.0	1062.9	1083.3	1111.6	1115.6	1164.6	1219.4	1250.2
12.5°	1008.1	1013.5	1017.1	1029.3	1047.5	1072.6	1104.5	1109.1	1166.1	1239.8	1283.9
15°	1021.7	1026.0	1024.6	1028.2	1040.4	1069.0	1107.3	1112.0	1171.4	1259.5	1317.2
17.5°	1082.3	1085.8	1074.0	1060.4	1054.7	1075.8	1116.3	1121.3	1182.2	1279.9	1351.2
20°	1171.4	1181.1	1155.3	1124.9	1097.3	1100.2	1134.9	1140.3	1197.2	1300.4	1385.9
22.5°	1287.5	1294.6	1263.1	1213.0	1162.1	1136.0	1162.8	1166.1	1219.8	1326.9	1423.9
25°	1423.9	1428.2	1384.5	1320.1	1246.6	1197.2	1201.2	1206.9	1257.0	1356.9	1457.6
27.5°	1556.4	1570.0	1519.5	1440.7	1344.0	1261.7	1253.8	1257.4	1297.5	1373.8	1480.9
30°	1713.6	1712.6	1659.2	1567.9	1444.0	1331.9	1303.6	1302.9	1319.3	1382.0	1497.7
32.5°	1839.0	1853.7	1801.4	1701.8	1558.2	1404.6	1338.0	1336.5	1336.2	1396.3	1522.8
35°	1981.5	1983.7	1935.7	1835.4	1681.8	1495.9	1385.9	1378.8	1370.5	1427.1	1556.8
37.5°	2109.0	2119.0	2075.0	1962.5	1803.2	1590.8	1451.8	1447.2	1422.1	1480.5	1611.2
40°	2208.6	2216.1	2189.6	2082.5	1922.8	1693.2	1535.6	1527.0	1496.6	1567.9	1683.9
42.5°	2241.2	2256.6	2266.9	2214.3	2060.3	1814.6	1638.8	1628.0	1604.8	1700.4	1767.7
45°	2243.7	2268.0	2322.8	2325.3	2198.5	1960.0	1759.1	1751.6	1749.8	1870.1	1885.5
47.5°	2224.7	2249.4	2341.4	2391.2	2321.7	2106.9	1932.8	1921.0	1922.1	2080.0	2017.7
50°	2178.8	2208.2	2319.9	2433.5	2418.1	2259.4	2116.2	2112.2	2134.4	2319.6	2154.8
52.5°	2092.5	2128.0	2297.7	2460.0	2489.7	2390.8	2324.6	2313.5	2369.7	2579.6	2304.9
55°	1853.7	1907.0	2216.4	2474.7	2557.7	2516.6	2512.3	2532.3	2606.8	2863.2	2470.0
57.5°	1729.0	1769.1	2039.9	2477.2	2643.7	2662.7	2731.4	2736.4	2866.8	3164.4	2656.6
60°	1661.0	1696.4	1943.2	2460.7	2763.7	2843.5	2955.6	2973.5	3120.7	3490.7	2850.0
62.5°	1601.5	1632.0	1885.2	2403.7	2899.0	3111.8	3246.1	3254.6	3409.0	3850.9	3040.8
65°	1461.5	1496.3	1768.4	2346.8	3015.8	3447.0	3631.4	3621.4	3715.9	4161.8	3160.5
67.5°	1272.8	1316.8	1550.3	2150.2	3073.4	3813.3	4065.4	4052.9	4018.9	4365.6	3194.8
70°	1031.8	1055.4	1271.3	1810.3	2843.2	4005.6	4408.2	4394.9	4206.5	4392.4	3032.3
71°	887.8	924.7	1107.0	1608.0	2651.6	3946.9	4452.2	4448.6	4206.9	4318.3	2909.8
72.5°	693.0	715.5	876.7	1245.9	2253.7	3613.1	4343.4	4357.0	4115.6	4112.4	2657.3
75°	438.3	448.4	550.1	733.4	1236.6	2558.8	3707.7	3744.6	3654.3	3366.0	1976.1
77.5°	254.6	267.5	329.5	432.3	534.3	1388.8	2653.0	2693.1	2539.1	1853.3	809.0
80°	148.3	162.6	217.0	251.0	245.3	515.3	1350.9	1419.3	1099.4	468.1	227.1
82.5°	82.4	92.0	152.6	152.9	130.7	168.3	425.1	444.8	313.7	188.7	92.8
85°	59.8	67.7	98.5	89.2	62.7	72.3	147.9	155.1	126.8	79.5	30.1
87.5°	21.1	30.1	54.1	43.0	17.2	15.0	42.6	34.7	32.2	22.2	6.8
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°	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9
2.5°	1189.3	1190.1	1186.5	1180.0	1173.6	1165.3	1156.0	1148.9	1145.6	1145.3	1144.9
5°	1202.2	1204.0	1190.4	1170.4	1148.2	1120.9	1097.7	1071.2	1064.4	1053.6	1056.8
7.5°	1223.0	1221.9	1195.1	1152.4	1100.5	1042.9	994.2	965.9	936.5	928.3	928.6
10°	1252.7	1245.9	1195.1	1115.9	1029.3	943.7	875.6	832.6	809.4	790.0	782.9
12.5°	1284.2	1267.0	1183.6	1064.7	937.6	832.6	759.6	701.6	686.5	670.8	671.1
15°	1314.3	1285.7	1161.0	992.7	838.7	714.1	643.2	608.5	603.8	605.6	605.2
17.5°	1341.5	1298.9	1126.7	912.5	723.4	612.4	574.8	577.3	589.8	598.8	599.9
20°	1369.1	1306.8	1075.5	805.1	614.5	550.8	552.2	571.9	590.9	603.1	604.9
22.5°	1395.3	1310.4	1015.3	701.2	535.8	524.7	545.8	566.9	585.5	597.4	599.1
25°	1412.4	1302.1	930.1	592.7	497.1	515.3	537.5	555.5	571.2	583.4	586.3
27.5°	1417.1	1275.6	824.4	505.0	479.2	506.4	526.8	540.1	552.2	563.7	565.8
30°	1414.6	1236.6	708.4	453.4	468.8	496.0	511.8	521.4	536.1	545.1	546.9
32.5°	1410.7	1191.1	587.3	425.8	460.2	486.3	495.6	504.2	503.9	500.3	502.8
35°	1412.1	1136.7	489.2	409.3	452.7	479.2	487.1	476.3	445.5	444.1	442.6
37.5°	1419.6	1083.0	417.9	397.9	448.7	478.1	482.4	433.0	405.8	393.2	390.0
40°	1439.0	1020.3	371.0	389.3	448.4	486.3	461.3	411.1	358.8	334.5	332.7
42.5°	1464.7	958.7	342.4	383.9	452.7	498.9	452.7	380.3	323.4	309.1	306.9
45°	1503.1	888.2	326.6	381.4	459.1	503.5	449.8	357.8	309.1	297.6	297.6
47.5°	1546.4	820.8	318.0	379.6	467.4	500.3	424.4	350.6	302.3	303.7	310.5
50°	1589.4	762.5	311.6	375.7	474.5	498.5	414.0	350.2	304.0	322.3	334.5
52.5°	1639.1	721.3	303.7	369.2	474.5	487.1	410.8	357.4	309.1	314.4	319.8
55°	1699.3	708.4	293.7	355.3	465.9	458.4	409.0	367.8	312.6	300.1	302.3
57.5°	1778.8	729.1	284.0	337.7	446.2	428.7	408.3	370.7	304.4	294.0	291.9
60°	1871.2	770.3	281.1	319.8	419.4	403.2	404.0	362.4	292.9	282.2	284.0
62.5°	1936.0	795.0	279.3	306.2	390.0	375.3	393.6	352.4	287.9	278.6	280.4
65°	1936.0	765.0	262.9	285.4	352.0	341.7	381.0	339.9	281.5	270.7	269.0
67.5°	1862.6	677.2	237.8	254.3	310.1	303.3	363.5	324.8	271.8	263.6	259.3
70°	1671.4	513.6	206.3	217.7	257.1	263.2	340.9	304.4	255.7	245.7	239.2
71°	1587.2	447.3	193.0	199.1	236.7	245.7	330.2	295.8	248.5	234.2	222.8
72.5°	1425.0	376.7	173.0	175.5	202.3	218.5	307.6	279.3	234.9	214.5	201.6
75°	1082.6	275.0	139.3	137.9	149.7	173.3	260.4	248.9	205.9	178.3	170.8
77.5°	467.7	149.7	104.2	105.3	101.7	131.4	204.8	213.8	176.6	145.0	138.2
80°	141.8	86.3	71.3	72.7	68.0	88.1	144.3	167.6	141.8	112.8	103.5
82.5°	72.7	51.6	48.7	48.0	43.3	49.8	87.4	114.6	101.3	70.6	62.3
85°	31.5	27.6	24.0	23.3	20.4	17.9	31.2	57.3	53.7	39.4	37.6
87.5°	7.9	7.2	4.7	4.3	2.5	0.4	0.0	0.0	0.0	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)