

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: P594624

Luminaire Tested: **ISS-PA1C-730-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1C-730-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6384 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

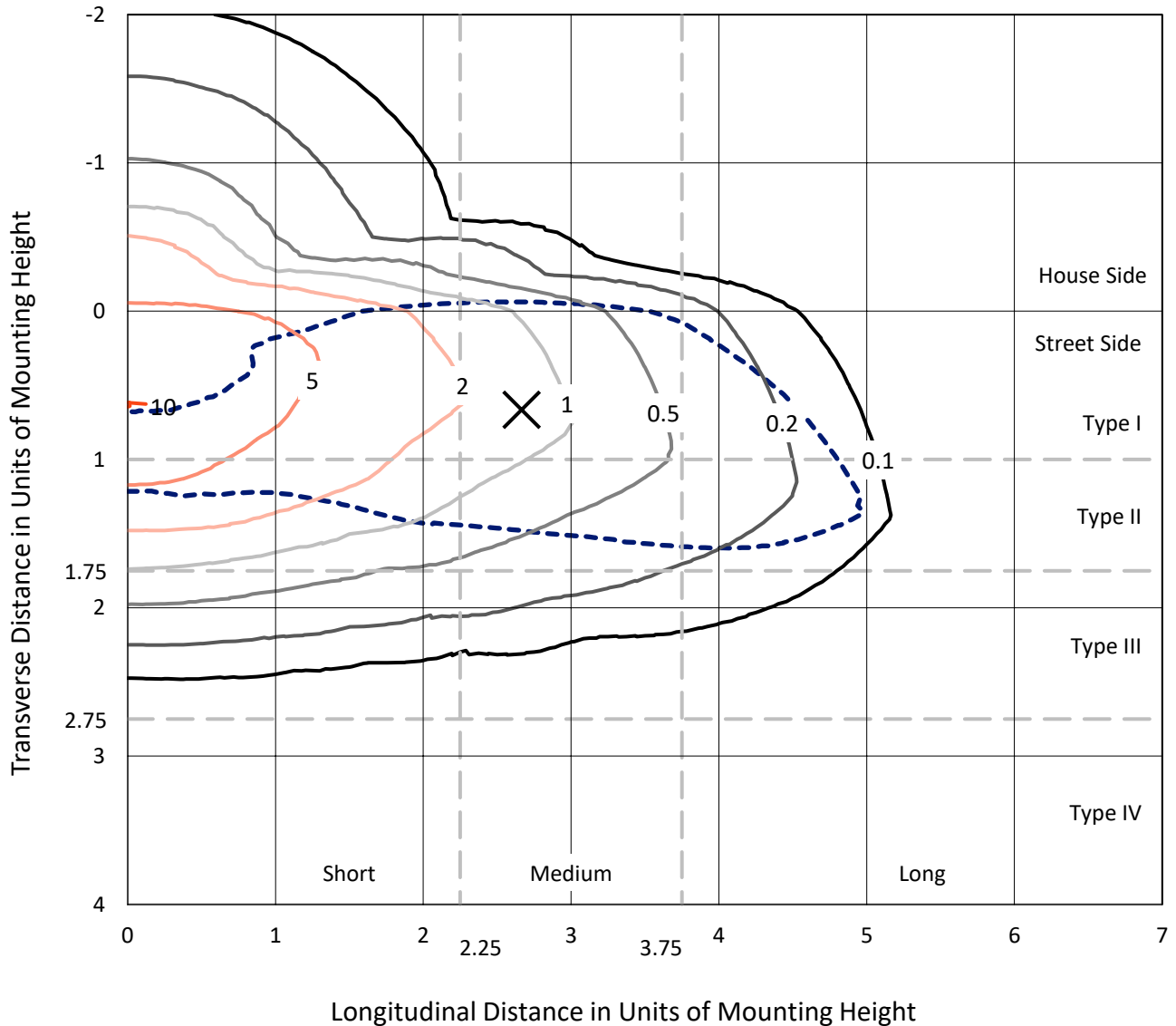
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

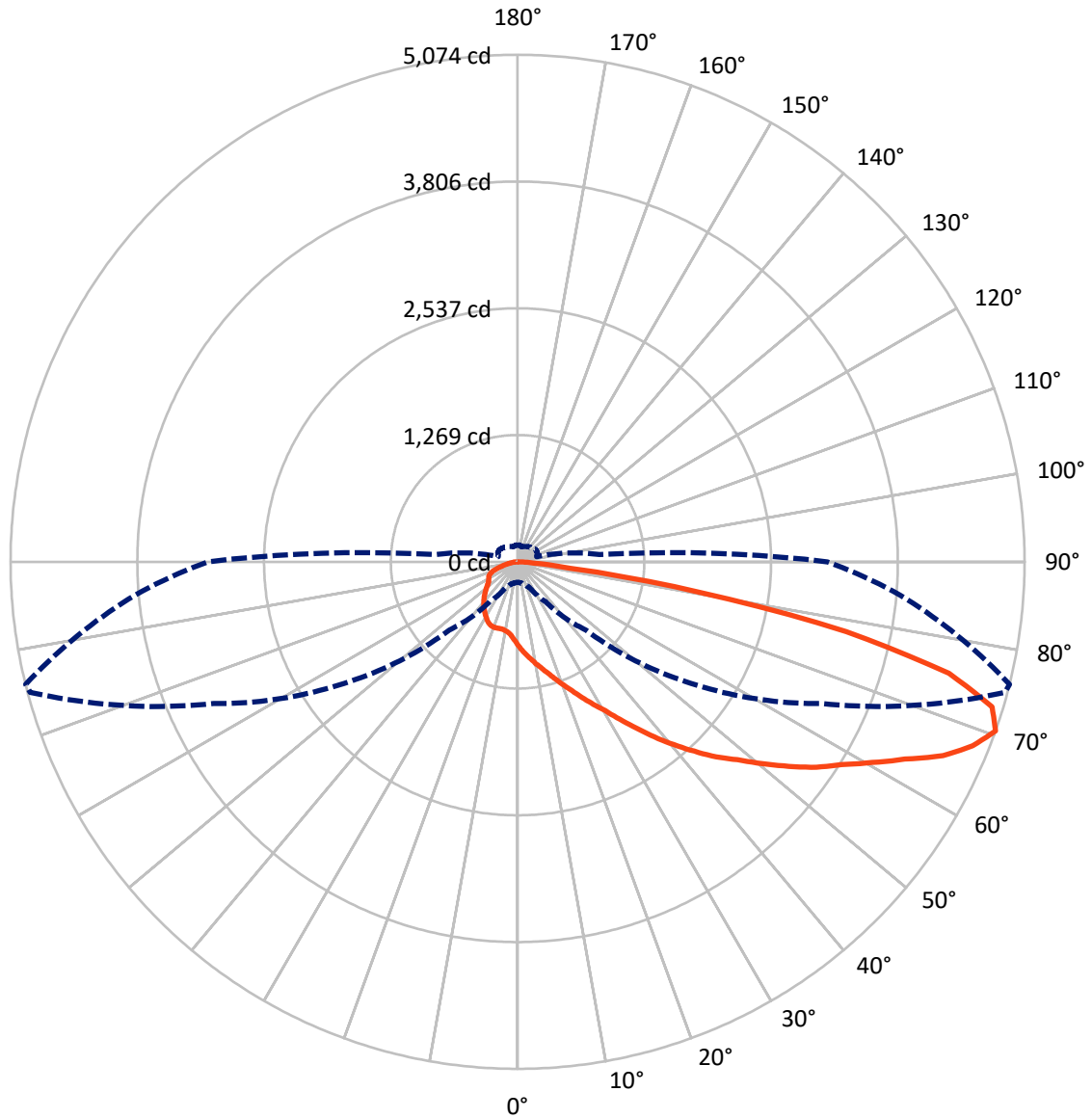
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: ISS-PA1C-730-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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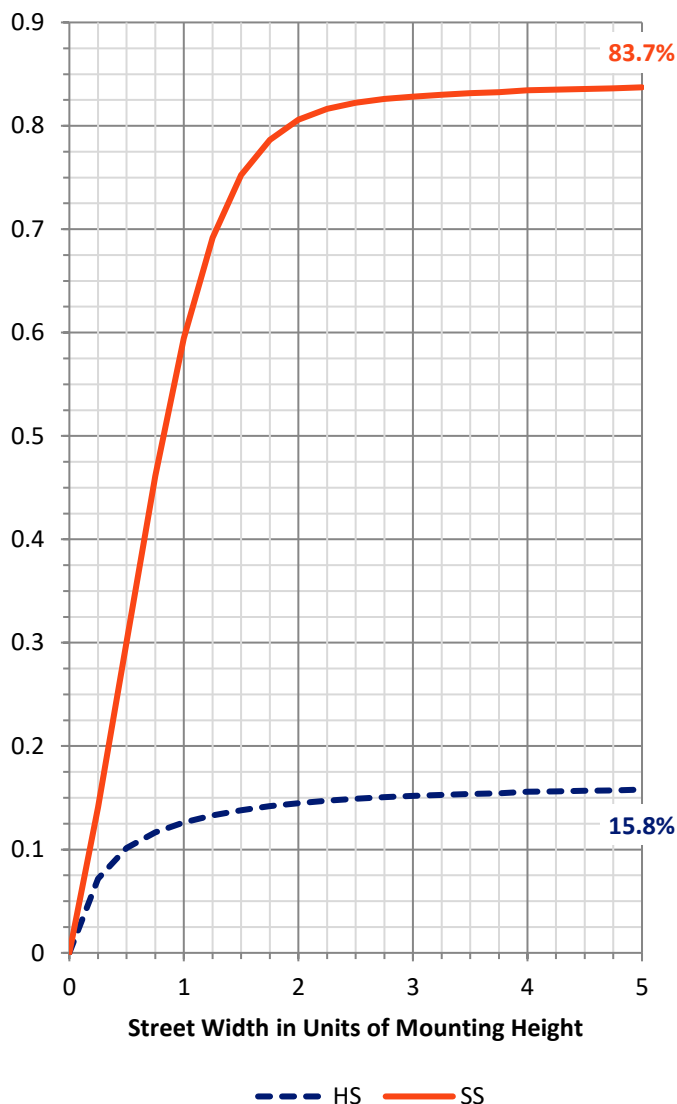
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1023.9	0.0	1023.9
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	5360.1	0.0	5360.1
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	6384.0	0.0	6384.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	1.3
10°-20°	269.3	4.2
20°-30°	496.4	7.8
30°-40°	831.7	13.0
40°-50°	1181.7	18.5
50°-60°	1364.4	21.4
60°-70°	1254.2	19.6
70°-80°	790.9	12.4
80°-90°	113.8	1.8
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°	6384.0	100.0
0°-180°	6384.0	100.0

**Coefficient of Utilization**

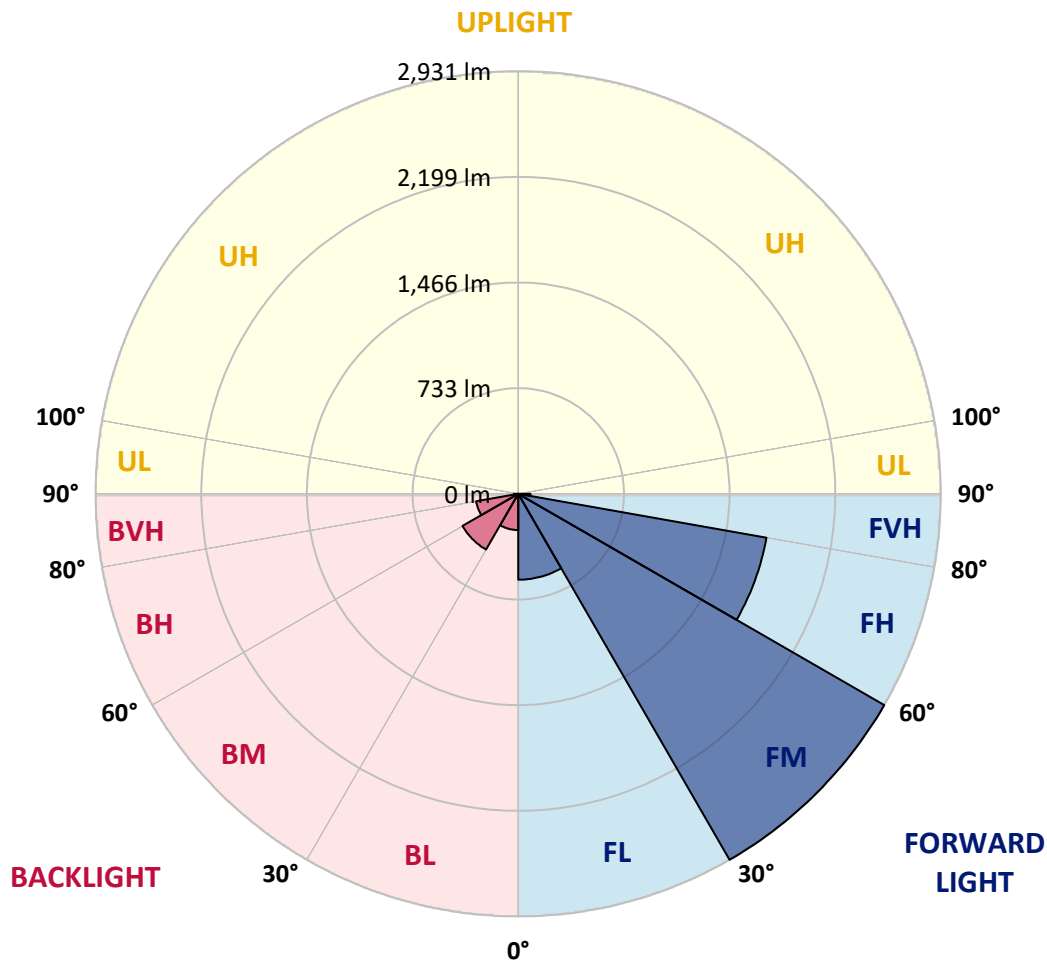


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 CATALOG NUMBER: ISS-PA1C-730-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.0	9.3			
FM (30°-60°)	2931.4	45.9			
FH (60°-80°)	1748.3	27.4			G1/1800
FVH (80°-90°)	84.3	1.3			G1/100
BL (0°-30°)	251.3	3.9	B1/500		
BM (30°-60°)	446.4	7.0	B1/1000		
BH (60°-80°)	296.8	4.6	B1/500		G1/500
BVH (80°-90°)	29.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	1008.1	1006.5	1001.9	994.2	988.1	969.6	945.1	923.5	891.3	888.2	855.9
5°	1098.7	1092.6	1092.6	1084.9	1077.2	1057.2	1026.5	988.1	942.0	938.9	877.4
7.5°	1141.7	1143.3	1140.2	1134.1	1135.6	1118.7	1091.0	1052.6	989.6	986.5	906.6
10°	1203.2	1201.7	1195.5	1190.9	1189.4	1174.0	1149.4	1114.1	1048.0	1041.9	940.4
12.5°	1263.1	1258.5	1260.1	1258.5	1255.5	1240.1	1217.0	1181.7	1100.3	1097.2	981.9
15°	1297.0	1295.4	1306.2	1309.2	1321.5	1307.7	1287.7	1247.8	1174.0	1161.7	1031.1
17.5°	1318.5	1316.9	1327.7	1352.3	1375.3	1375.3	1369.2	1326.1	1244.7	1235.5	1086.4
20°	1355.3	1361.5	1379.9	1399.9	1433.7	1439.9	1438.3	1419.9	1326.1	1316.9	1147.9
22.5°	1429.1	1426.0	1441.4	1472.1	1502.9	1512.1	1513.6	1513.6	1419.9	1403.0	1210.9
25°	1587.4	1579.7	1567.4	1564.3	1601.2	1599.7	1595.1	1605.8	1518.2	1505.9	1283.1
27.5°	1888.6	1871.7	1824.0	1728.8	1707.2	1714.9	1691.9	1693.4	1630.4	1615.0	1344.6
30°	2174.4	2166.7	2122.1	2006.9	1885.5	1842.5	1802.5	1785.6	1754.9	1728.8	1410.7
32.5°	2432.5	2434.1	2380.3	2254.3	2129.8	1994.6	1925.4	1890.1	1902.4	1879.3	1501.3
35°	2607.7	2593.9	2560.1	2475.6	2340.3	2211.3	2079.1	2000.7	2066.8	2040.7	1592.0
37.5°	2710.7	2699.9	2672.3	2612.3	2544.7	2420.3	2252.8	2132.9	2262.0	2223.6	1707.2
40°	2762.9	2747.6	2719.9	2695.3	2663.1	2595.4	2447.9	2283.5	2440.2	2406.4	1821.0
42.5°	2769.1	2758.3	2743.0	2730.7	2741.4	2732.2	2638.5	2458.7	2627.7	2590.8	1951.6
45°	2764.5	2772.2	2753.7	2732.2	2753.7	2832.1	2832.1	2633.9	2813.6	2786.0	2076.0
47.5°	2767.5	2759.9	2753.7	2747.6	2750.6	2858.2	2965.8	2798.3	2991.9	2959.6	2222.0
50°	2640.0	2650.8	2703.0	2726.1	2739.9	2864.4	3073.3	2976.5	3213.2	3173.2	2384.9
52.5°	2234.3	2240.5	2478.6	2650.8	2706.1	2839.8	3148.6	3174.8	3431.4	3400.7	2560.1
55°	1721.1	1753.3	1979.2	2400.3	2629.2	2798.3	3171.7	3303.8	3654.2	3629.6	2736.8
57.5°	1416.8	1421.4	1552.0	1928.5	2386.4	2759.9	3194.7	3422.2	3854.0	3826.3	2921.2
60°	1175.6	1164.8	1244.7	1487.5	1982.3	2606.2	3199.3	3515.9	4086.0	4076.8	3111.8
62.5°	863.6	875.9	952.7	1158.6	1550.5	2294.2	3176.3	3595.8	4362.6	4350.3	3323.8
65°	530.2	545.5	639.3	828.3	1174.0	1821.0	3025.7	3637.3	4653.0	4680.7	3552.8
67.5°	281.2	292.0	347.3	501.0	805.2	1387.6	2663.1	3585.1	4898.9	4911.2	3772.5
70°	205.9	207.5	225.9	282.7	485.6	965.0	2120.6	3357.6	5049.5	5074.1	3844.8
72.5°	179.8	181.3	189.0	202.8	264.3	588.5	1519.8	2961.2	4986.5	4965.0	3723.4
75°	162.9	162.9	169.0	173.6	193.6	325.8	931.2	2423.3	4505.5	4457.9	3174.8
77.5°	139.8	139.8	146.0	152.1	167.5	210.5	487.1	1796.4	3445.2	3363.8	2171.3
80°	112.2	112.2	119.9	127.5	147.5	158.3	238.2	1201.7	1970.0	1850.2	988.1
82.5°	76.8	83.0	96.8	106.0	122.9	112.2	139.8	519.4	620.8	537.8	222.8
85°	46.1	49.2	69.2	79.9	92.2	59.9	86.1	199.8	185.9	162.9	50.7
87.5°	4.6	7.7	27.7	32.3	32.3	16.9	36.9	47.6	53.8	55.3	12.3
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°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	837.5	819.0	783.7	751.4	719.2	697.6	676.1	668.5	657.7	650.0	656.2
5°	845.2	806.8	739.1	682.3	643.9	614.7	600.8	593.2	587.0	585.5	583.9
7.5°	854.4	797.5	706.9	643.9	607.0	593.2	590.1	590.1	590.1	591.6	593.2
10°	874.4	800.6	690.0	622.4	602.4	599.3	600.8	607.0	607.0	608.5	608.5
12.5°	897.4	808.3	677.7	619.3	607.0	608.5	610.1	613.1	613.1	617.7	616.2
15°	931.2	823.7	676.1	622.4	611.6	608.5	608.5	607.0	607.0	607.0	610.1
17.5°	974.2	845.2	677.7	622.4	607.0	600.8	596.2	591.6	585.5	588.5	585.5
20°	1017.3	871.3	677.7	614.7	594.7	579.3	565.5	557.8	550.1	548.6	550.1
22.5°	1071.1	902.0	670.0	597.8	568.6	547.1	527.1	516.3	504.0	499.4	496.3
25°	1117.2	926.6	654.6	573.2	539.4	508.6	482.5	464.1	448.7	445.6	445.6
27.5°	1164.8	948.1	631.6	542.4	497.9	464.1	434.9	411.8	396.5	394.9	393.4
30°	1209.4	966.6	600.8	508.6	461.0	421.0	387.2	367.3	353.4	345.8	341.1
32.5°	1267.8	991.2	571.6	474.8	418.0	378.0	347.3	330.4	311.9	299.7	295.0
35°	1341.5	1020.3	539.4	438.0	379.6	339.6	321.2	296.6	273.5	259.7	255.1
37.5°	1424.5	1061.8	505.6	399.5	341.1	311.9	301.2	262.8	238.2	233.6	232.0
40°	1527.5	1101.8	467.1	359.6	304.3	296.6	278.1	238.2	225.9	224.4	222.8
42.5°	1630.4	1144.8	430.3	319.6	275.1	278.1	252.0	232.0	221.3	218.2	216.7
45°	1750.3	1187.8	393.4	284.3	252.0	252.0	238.2	225.9	216.7	213.6	213.6
47.5°	1876.3	1230.9	353.4	253.6	235.1	225.9	227.4	218.2	212.1	209.0	207.5
50°	2034.6	1272.4	316.6	232.0	224.4	212.1	216.7	210.5	207.5	204.4	202.8
52.5°	2183.6	1290.8	282.7	219.7	218.2	205.9	207.5	204.4	202.8	198.2	196.7
55°	2329.6	1286.2	256.6	213.6	210.5	204.4	201.3	199.8	198.2	193.6	192.1
57.5°	2492.5	1280.0	239.7	212.1	205.9	199.8	199.8	195.2	189.0	189.0	189.0
60°	2661.5	1260.1	232.0	212.1	204.4	199.8	196.7	192.1	185.9	187.5	185.9
62.5°	2852.1	1221.7	227.4	216.7	205.9	198.2	195.2	189.0	181.3	182.9	181.3
65°	3019.6	1143.3	224.4	221.3	209.0	199.8	192.1	184.4	175.2	176.7	175.2
67.5°	3133.3	1011.1	215.1	224.4	213.6	198.2	189.0	178.3	166.0	172.1	170.6
70°	3101.0	822.1	198.2	218.2	218.2	199.8	184.4	170.6	156.7	169.0	164.4
72.5°	2850.5	617.7	166.0	196.7	215.1	199.8	175.2	158.3	146.0	153.7	144.4
75°	2340.3	419.5	132.2	156.7	201.3	201.3	167.5	146.0	130.6	126.0	122.9
77.5°	1459.8	261.2	103.0	115.3	169.0	199.8	159.8	130.6	109.1	106.0	103.0
80°	577.8	139.8	81.4	83.0	124.5	182.9	149.1	110.6	87.6	84.5	78.4
82.5°	132.2	70.7	56.9	55.3	76.8	149.1	135.2	87.6	67.6	67.6	56.9
85°	40.0	36.9	36.9	35.3	38.4	76.8	104.5	59.9	46.1	32.3	27.7
87.5°	10.8	15.4	13.8	12.3	12.3	10.8	33.8	15.4	9.2	4.6	3.1
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)