

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: P451318

Luminaire Tested: **GALN-SA2A-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451318
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-SA2A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 7292 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): 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

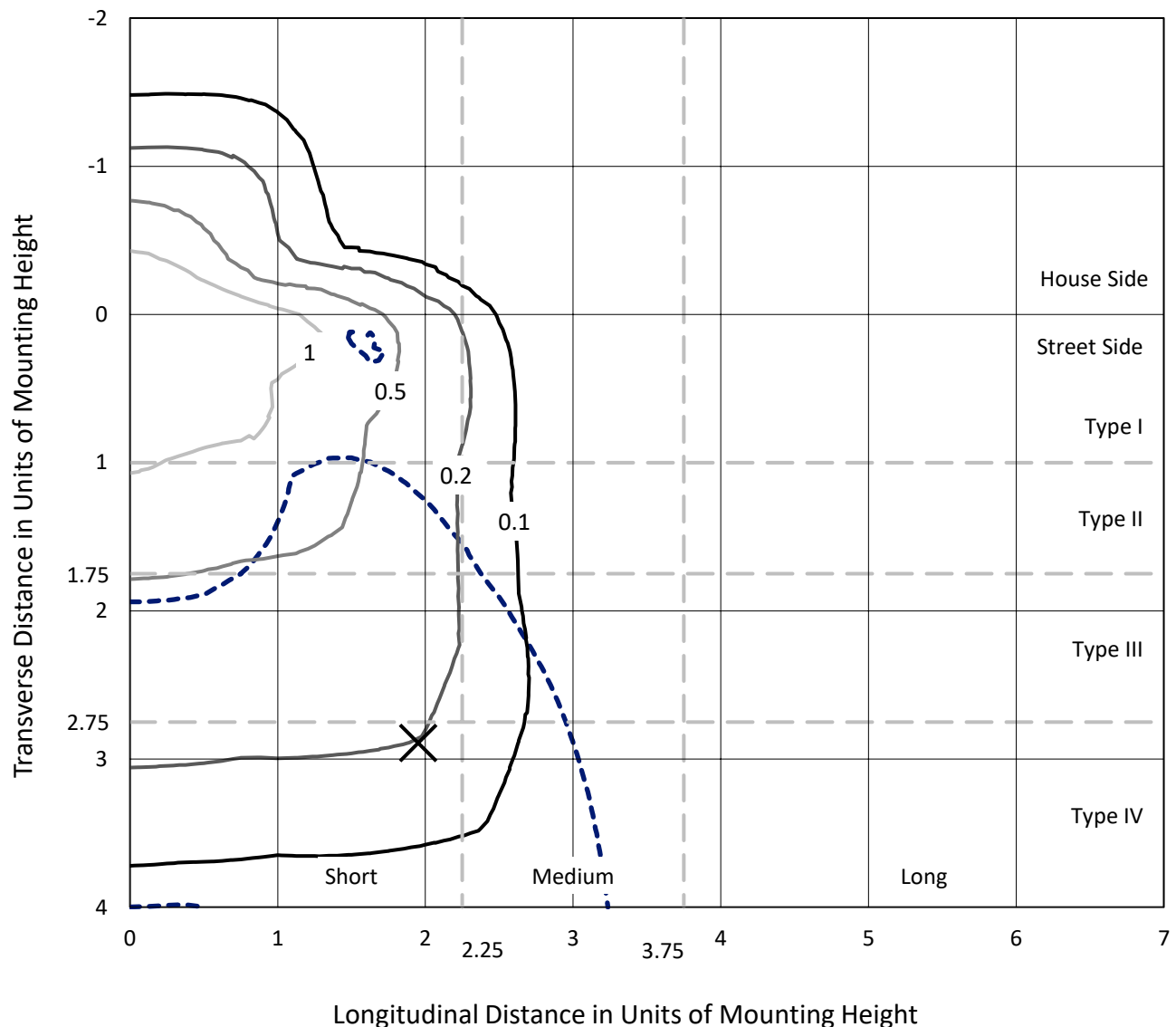


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



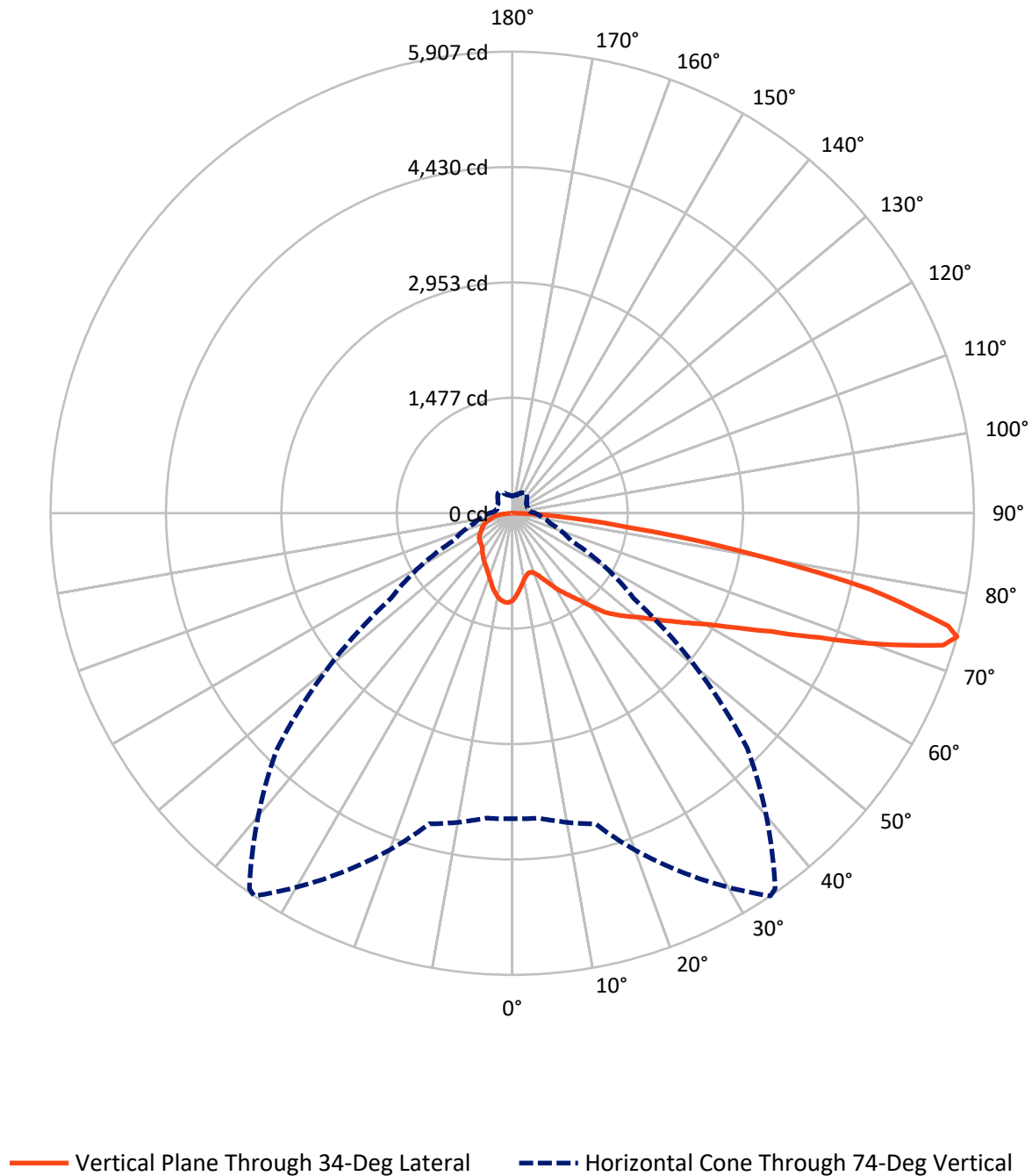
Based on 25 foot mounting height. Maximum calculated value = 1.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1551.8	0.0	1551.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5740.2	0.0	5740.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	7292.0	0.0	7292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.4
10°-20°	277.2	3.8
20°-30°	457.0	6.3
30°-40°	684.5	9.4
40°-50°	995.1	13.6
50°-60°	1389.9	19.1
60°-70°	1740.1	23.9
70°-80°	1438.9	19.7
80°-90°	207.9	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°	7292.0	100.0
0°-180°	7292.0	100.0

Coefficient of Utilization



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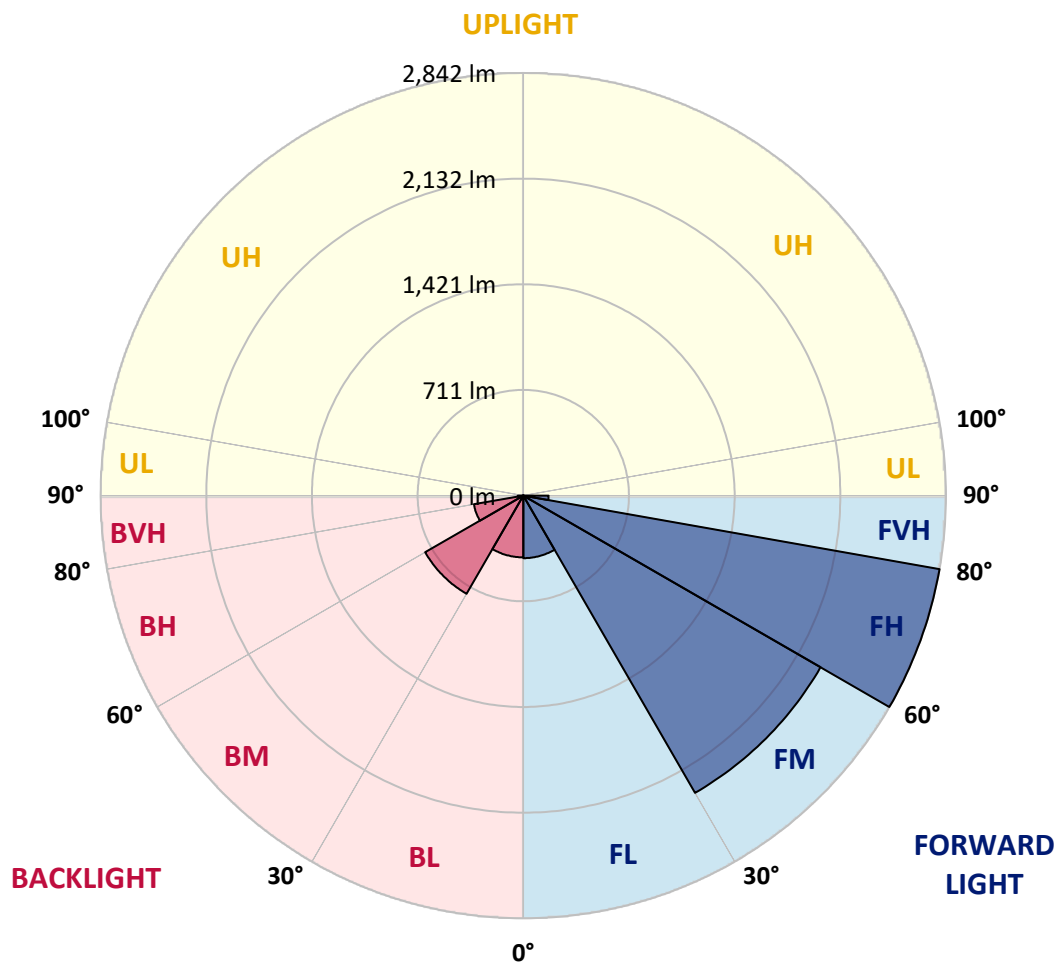
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.3	5.8			
FM	(30°-60°)	2307.5	31.6			
FH	(60°-80°)	2842.0	39.0			G2/5000
FVH	(80°-90°)	170.3	2.3			G2/225
BL	(0°-30°)	415.1	5.7	B1/500		
BM	(30°-60°)	762.1	10.5	B1/1000		
BH	(60°-80°)	337.0	4.6	B1/500		G1/500
BVH	(80°-90°)	37.6	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3
2.5°	1028.9	1034.2	1037.0	1047.1	1049.5	1052.7	1061.2	1072.5	1087.1	1100.0	1111.3
5°	943.3	951.4	956.2	965.1	982.5	984.1	1006.7	1032.5	1062.0	1089.5	1112.1
7.5°	862.1	871.0	875.0	891.2	914.2	917.8	950.9	991.7	1041.0	1082.6	1117.4
10°	801.1	805.5	814.4	826.5	854.0	856.4	899.6	954.2	1018.0	1079.4	1126.3
12.5°	767.9	770.4	772.4	785.3	812.4	816.0	861.3	923.1	999.8	1081.8	1140.8
15°	772.8	773.6	764.7	767.1	789.0	794.2	839.0	902.5	988.5	1087.9	1162.6
17.5°	813.6	810.8	789.0	777.6	793.0	795.4	834.6	894.4	983.3	1099.2	1185.3
20°	877.8	873.8	836.2	811.2	820.1	822.1	849.1	900.5	988.5	1117.8	1220.4
22.5°	957.8	956.2	899.2	868.9	868.5	868.5	882.7	922.3	1004.3	1143.2	1257.2
25°	1069.7	1061.2	986.9	947.7	936.8	936.0	934.4	958.2	1024.5	1170.3	1300.8
27.5°	1184.4	1169.9	1103.6	1043.5	1020.0	1017.2	1006.7	1009.1	1050.3	1201.0	1350.5
30°	1287.5	1278.2	1216.0	1149.3	1121.4	1115.0	1085.9	1072.5	1093.5	1256.3	1429.7
32.5°	1366.2	1360.6	1312.1	1251.5	1210.3	1209.1	1166.7	1155.8	1161.0	1323.4	1520.1
35°	1430.1	1432.1	1407.4	1354.9	1307.7	1300.8	1272.5	1258.8	1243.4	1420.4	1634.1
37.5°	1517.3	1521.8	1520.1	1474.9	1417.1	1418.7	1412.3	1389.7	1348.9	1528.6	1760.5
40°	1613.5	1616.7	1616.3	1598.9	1568.6	1570.2	1567.8	1542.0	1481.0	1666.4	1901.1
42.5°	1746.4	1731.0	1691.0	1708.4	1726.2	1733.8	1750.4	1725.8	1642.1	1813.4	2033.2
45°	1895.0	1865.9	1775.5	1783.5	1849.4	1863.9	1955.2	1921.3	1817.1	1982.3	2188.7
47.5°	1988.7	1960.1	1883.7	1882.1	1969.4	1983.5	2145.1	2132.6	1976.2	2164.5	2378.6
50°	2072.4	2068.3	1982.3	2002.9	2088.1	2109.1	2351.9	2340.2	2135.0	2379.4	2585.4
52.5°	2196.4	2163.7	2095.0	2137.4	2250.1	2277.6	2557.1	2522.8	2280.8	2569.3	2786.2
55°	2252.1	2244.5	2240.4	2277.2	2431.9	2451.7	2756.7	2677.9	2405.2	2730.0	2938.9
57.5°	2401.2	2387.1	2427.1	2452.1	2646.0	2676.3	2965.1	2839.9	2514.3	2857.7	3013.2
60°	2594.3	2586.6	2623.4	2668.6	2885.2	2931.2	3202.7	2978.1	2602.0	2921.9	2972.4
62.5°	2882.7	2881.9	2875.1	2972.0	3224.1	3266.5	3475.4	3112.6	2615.7	2873.8	2761.5
65°	3296.4	3281.9	3222.1	3327.9	3645.8	3695.5	3759.4	3187.7	2532.9	2627.0	2325.3
67.5°	3729.1	3728.2	3679.8	3817.1	4251.4	4302.7	4114.4	3171.2	2303.0	2128.1	1651.4
70°	4087.8	4070.4	4132.2	4498.2	5025.0	5084.4	4425.1	2976.1	1834.4	1405.4	981.2
72.5°	4173.8	4174.6	4303.1	5023.4	5767.9	5777.2	4537.0	2412.1	1227.7	775.2	490.8
74°	3908.8	3915.7	4114.8	5049.6	5906.5	5864.4	4251.0	1895.8	830.2	506.2	353.9
75°	3567.9	3524.6	3812.7	4874.7	5762.6	5717.4	3916.1	1521.4	633.4	404.4	309.8
77.5°	1907.6	1951.6	2396.0	3637.8	4681.6	4629.5	2655.3	729.6	342.2	281.6	223.0
80°	679.1	749.0	1052.7	1903.5	3001.5	3017.7	1267.3	334.5	240.8	207.6	157.5
82.5°	277.1	284.8	452.0	844.7	1524.2	1538.7	517.5	198.8	172.1	143.0	94.1
85°	108.3	111.5	200.0	379.7	650.4	692.8	179.0	105.0	105.8	82.0	48.1
87.5°	36.4	41.2	82.0	126.4	221.0	216.5	52.1	31.1	38.0	35.5	14.9
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°	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3
2.5°	1117.0	1124.7	1129.9	1135.6	1140.8	1142.4	1141.2	1144.9	1145.3	1145.7	1146.1
5°	1123.4	1133.9	1144.0	1149.7	1152.1	1150.1	1143.2	1139.6	1136.4	1133.9	1134.8
7.5°	1132.3	1147.3	1156.6	1159.0	1152.5	1143.2	1126.3	1112.9	1104.5	1098.8	1098.4
10°	1146.1	1160.6	1168.3	1161.4	1143.6	1121.0	1094.4	1069.3	1050.3	1044.7	1044.3
12.5°	1163.4	1180.0	1179.6	1159.4	1128.3	1087.9	1044.7	1015.6	989.7	976.8	982.1
15°	1186.1	1198.6	1186.9	1150.5	1101.2	1045.9	992.6	953.0	923.9	910.1	911.0
17.5°	1212.3	1223.2	1192.1	1134.8	1063.3	992.2	930.3	892.8	869.7	859.7	858.8
20°	1245.0	1248.3	1192.1	1107.3	1014.4	929.5	870.6	844.3	831.4	826.1	827.7
22.5°	1280.2	1273.7	1185.7	1068.5	950.1	864.1	824.5	812.8	806.3	805.5	806.3
25°	1319.8	1301.6	1172.3	1016.0	883.1	807.5	784.5	786.5	787.7	787.7	790.6
27.5°	1368.2	1331.9	1150.1	949.7	804.7	755.0	748.6	762.7	769.2	770.4	772.4
30°	1432.1	1365.0	1113.3	866.9	738.1	707.8	719.1	738.1	745.3	749.8	749.0
32.5°	1508.0	1401.4	1063.7	784.1	684.3	674.6	688.4	707.8	715.8	718.3	715.0
35°	1597.3	1442.6	998.2	706.5	637.5	643.1	659.3	665.3	672.6	672.6	674.2
37.5°	1693.4	1475.7	918.2	635.4	601.1	621.7	633.4	627.8	624.5	620.5	622.5
40°	1791.2	1500.3	814.4	565.2	564.8	599.5	602.7	586.6	573.6	569.6	567.6
42.5°	1876.4	1515.7	720.7	510.6	530.4	577.7	580.1	554.2	533.6	521.5	517.5
45°	1977.0	1533.5	629.0	465.4	498.5	560.3	566.4	531.6	501.3	475.9	469.4
47.5°	2114.8	1573.9	556.7	430.2	475.5	549.4	557.9	513.0	473.1	439.9	434.7
50°	2270.3	1629.2	500.5	406.4	457.7	539.7	550.2	494.1	446.8	410.0	406.0
52.5°	2412.9	1659.1	452.0	385.0	440.3	521.9	540.1	480.3	420.9	380.1	376.5
55°	2490.9	1610.6	404.4	364.0	416.5	498.9	526.0	461.3	395.9	364.4	359.1
57.5°	2501.4	1510.4	361.2	341.4	391.4	470.6	499.7	438.3	379.7	353.5	349.0
60°	2420.2	1361.0	327.6	322.8	366.0	438.7	470.2	418.1	363.2	341.4	336.9
62.5°	2218.2	1198.6	304.2	305.8	340.1	405.2	448.4	398.7	347.4	328.0	324.0
65°	1870.8	989.3	281.6	288.4	317.1	378.9	428.6	382.6	331.7	317.9	314.3
67.5°	1299.6	714.2	263.0	270.3	295.3	352.3	405.6	365.2	313.9	306.6	301.0
70°	719.5	439.5	241.2	249.7	272.7	322.4	379.7	338.9	288.0	284.8	276.7
72.5°	378.1	280.0	216.5	225.8	242.0	284.0	340.1	310.2	262.6	248.8	238.3
74°	295.3	229.5	200.0	209.7	220.6	261.4	316.7	289.6	244.4	228.2	220.2
75°	257.3	204.4	185.8	198.3	208.0	246.0	298.5	275.1	234.3	219.0	211.7
77.5°	181.8	153.1	151.9	166.8	172.1	215.7	269.0	250.5	208.9	192.7	185.8
80°	127.7	114.7	120.4	129.7	136.9	190.7	249.7	216.5	171.3	152.3	149.9
82.5°	83.2	75.1	86.0	94.5	97.0	140.6	201.6	164.4	124.8	101.4	94.1
85°	38.4	37.6	49.3	48.1	47.7	68.7	119.6	96.1	71.9	53.7	50.5
87.5°	9.7	9.3	12.1	10.1	12.1	10.5	10.9	2.8	0.4	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)