

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: P450738

Luminaire Tested: **GALN-SA1C-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450738
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-SA1C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7098 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

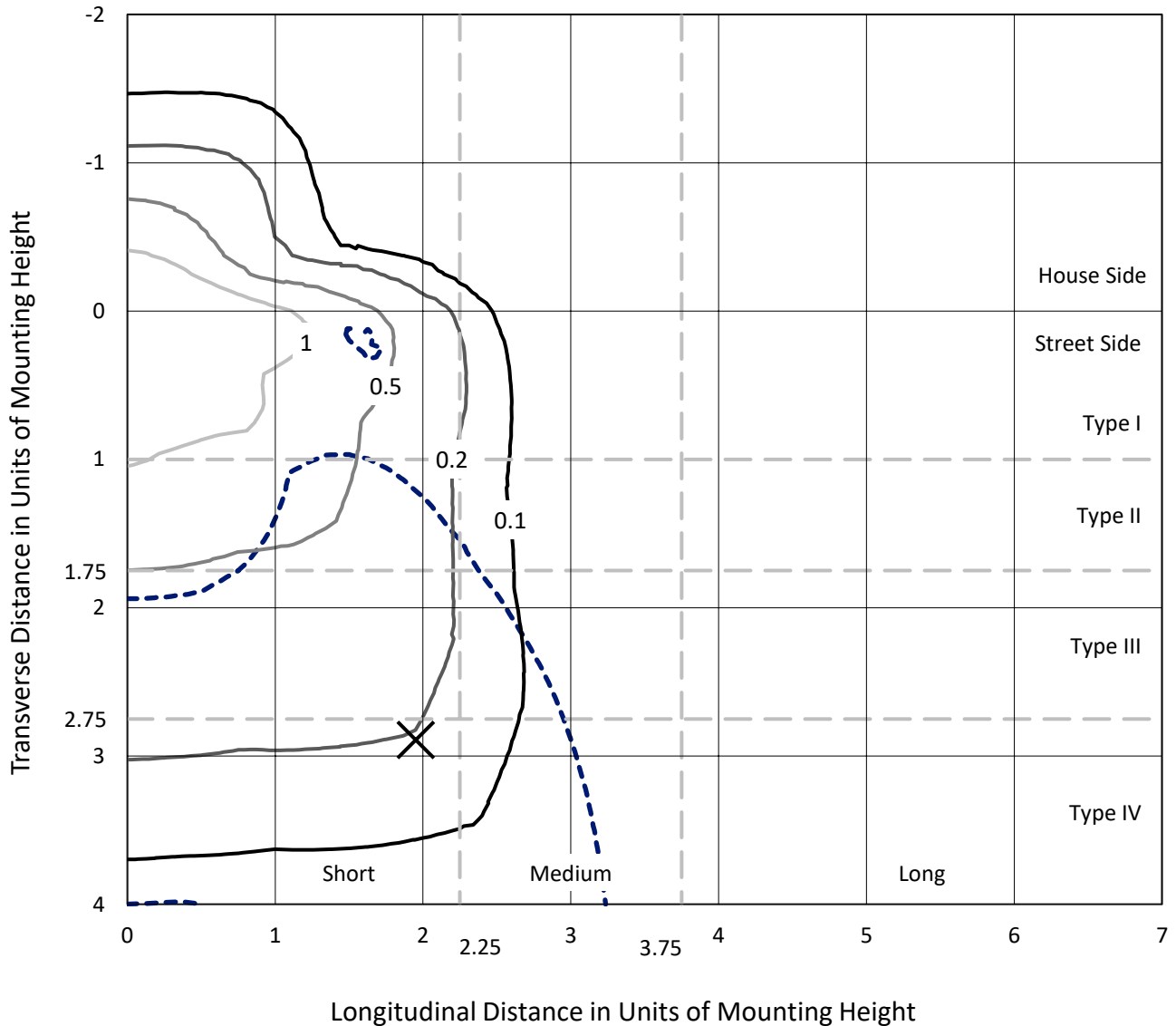
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450738
 CATALOG NUMBER: GALN-SA1C-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

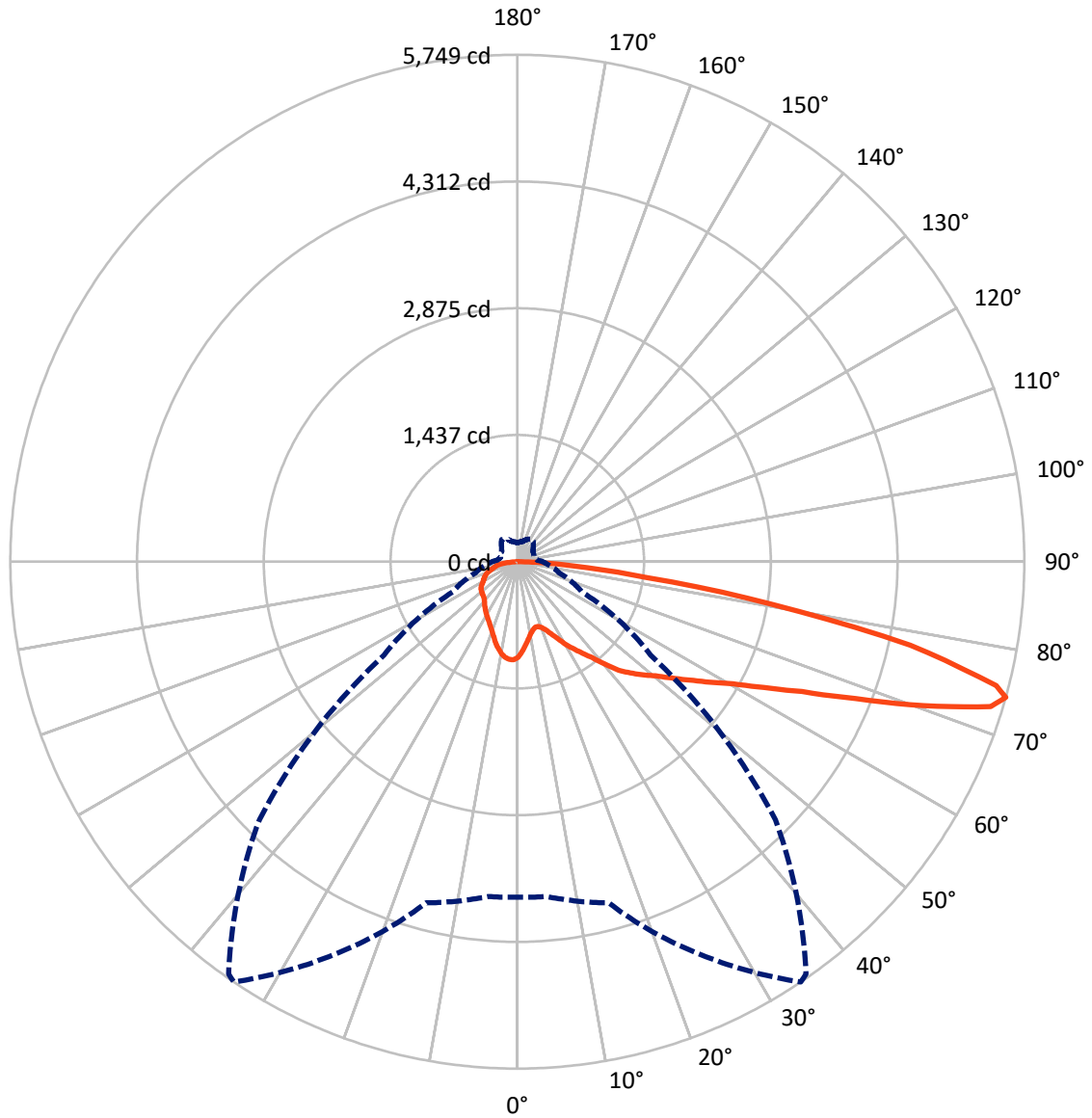
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P450738
CATALOG NUMBER: GALN-SA1C-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1510.5	0.0	1510.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5587.5	0.0	5587.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	7098.0	0.0	7098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.4
10°-20°	269.8	3.8
20°-30°	444.8	6.3
30°-40°	666.3	9.4
40°-50°	968.6	13.6
50°-60°	1353.0	19.1
60°-70°	1693.8	23.9
70°-80°	1400.7	19.7
80°-90°	202.4	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°	7098.0	100.0
0°-180°	7098.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450738

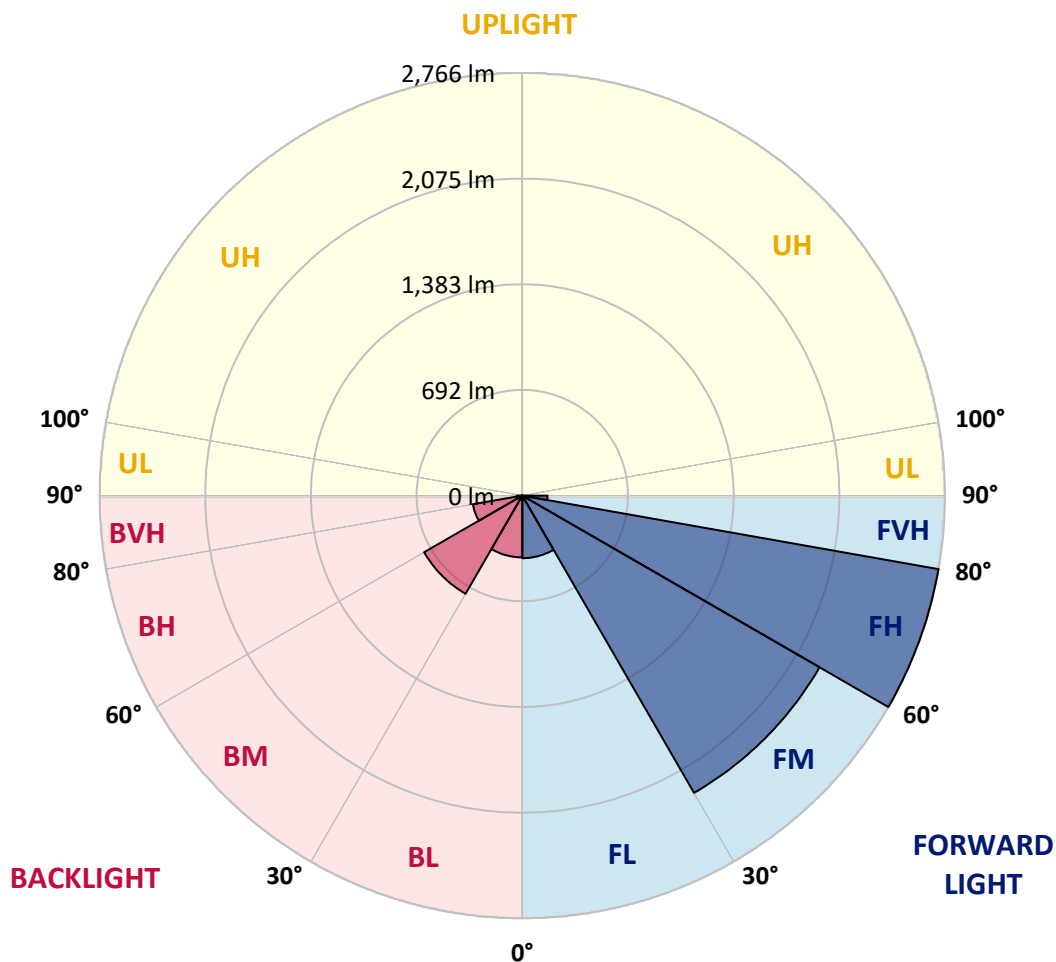
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.2	5.8			
FM	(30°-60°)	2246.1	31.6			
FH	(60°-80°)	2766.4	39.0			G2/5000
FVH	(80°-90°)	165.8	2.3			G2/225
BL	(0°-30°)	404.0	5.7	B1/500		
BM	(30°-60°)	741.8	10.5	B1/1000		
BH	(60°-80°)	328.1	4.6	B1/500		G1/500
BVH	(80°-90°)	36.6	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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 CATALOG NUMBER: GALN-SA1C-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7
2.5°	1001.5	1006.7	1009.4	1019.2	1021.6	1024.7	1033.0	1044.0	1058.2	1070.7	1081.8
5°	918.2	926.0	930.8	939.4	956.3	957.9	979.9	1005.1	1033.8	1060.5	1082.5
7.5°	839.1	847.8	851.7	867.5	889.9	893.4	925.6	965.4	1013.3	1053.8	1087.7
10°	779.8	784.1	792.7	804.5	831.3	833.6	875.7	928.8	990.9	1050.7	1096.3
12.5°	747.5	749.9	751.8	764.4	790.8	794.3	838.4	898.5	973.2	1053.1	1110.5
15°	752.2	753.0	744.4	746.7	768.0	773.1	816.7	878.5	962.2	1059.0	1131.7
17.5°	792.0	789.2	768.0	757.0	771.9	774.3	812.4	870.6	957.1	1070.0	1153.7
20°	854.5	850.5	814.0	789.6	798.2	800.2	826.6	876.5	962.2	1088.0	1187.9
22.5°	932.3	930.8	875.3	845.8	845.4	845.4	859.2	897.7	977.6	1112.8	1223.7
25°	1041.3	1033.0	960.6	922.5	911.9	911.1	909.5	932.7	997.2	1139.2	1266.2
27.5°	1152.9	1138.8	1074.3	1015.7	992.9	990.1	979.9	982.3	1022.4	1169.1	1314.5
30°	1253.2	1244.2	1183.6	1118.7	1091.6	1085.3	1057.0	1044.0	1064.5	1222.9	1391.6
32.5°	1329.9	1324.4	1277.2	1218.2	1178.1	1176.9	1135.6	1125.0	1130.1	1288.2	1479.7
35°	1392.0	1394.0	1370.0	1318.9	1272.9	1266.2	1238.7	1225.3	1210.3	1382.6	1590.6
37.5°	1476.9	1481.3	1479.7	1435.7	1379.4	1381.0	1374.7	1352.7	1313.0	1488.0	1713.7
40°	1570.5	1573.7	1573.3	1556.4	1526.9	1528.5	1526.1	1500.9	1441.6	1622.0	1850.5
42.5°	1699.9	1685.0	1646.0	1662.9	1680.2	1687.7	1703.8	1679.9	1598.5	1765.2	1979.1
45°	1844.6	1816.3	1728.2	1736.1	1800.2	1814.3	1903.2	1870.2	1768.7	1929.5	2130.5
47.5°	1935.8	1907.9	1833.6	1832.0	1917.0	1930.7	2088.0	2075.8	1923.6	2106.9	2315.3
50°	2017.2	2013.3	1929.5	1949.6	2032.6	2053.0	2289.3	2277.9	2078.2	2316.1	2516.6
52.5°	2138.0	2106.1	2039.3	2080.5	2190.3	2217.0	2489.1	2455.7	2220.1	2500.9	2712.1
55°	2192.2	2184.8	2180.8	2216.6	2367.2	2386.5	2683.4	2606.7	2341.3	2657.4	2860.7
57.5°	2337.3	2323.6	2362.5	2386.9	2575.6	2605.1	2886.3	2764.4	2447.4	2781.7	2933.1
60°	2525.3	2517.8	2553.6	2597.6	2808.4	2853.2	3117.5	2898.8	2532.8	2844.2	2893.3
62.5°	2806.0	2805.3	2798.6	2892.9	3138.3	3179.6	3382.9	3029.8	2546.1	2797.4	2688.1
65°	3208.7	3194.5	3136.4	3239.4	3548.8	3597.2	3659.3	3102.9	2465.5	2557.1	2263.4
67.5°	3629.8	3629.1	3581.9	3715.6	4138.3	4188.2	4005.0	3086.8	2241.8	2071.5	1607.5
70°	3979.0	3962.1	4022.3	4378.5	4891.3	4949.1	4307.4	2896.9	1785.6	1368.0	955.1
72.5°	4062.8	4063.6	4188.6	4889.7	5614.4	5623.5	4416.3	2347.9	1195.0	754.6	477.8
74°	3804.8	3811.5	4005.4	4915.3	5749.3	5708.4	4137.9	1845.4	808.1	492.7	344.5
75°	3473.0	3430.9	3711.2	4745.0	5609.3	5565.3	3811.9	1480.9	616.6	393.6	301.6
77.5°	1856.8	1899.7	2332.2	3541.0	4557.1	4506.3	2584.7	710.2	333.1	274.1	217.1
80°	661.0	729.0	1024.7	1852.9	2921.7	2937.4	1233.5	325.6	234.4	202.1	153.4
82.5°	269.8	277.2	440.0	822.2	1483.6	1497.8	503.7	193.5	167.5	139.2	91.6
85°	105.4	108.5	194.6	369.6	633.1	674.4	174.2	102.2	103.0	79.8	46.8
87.5°	35.4	40.1	79.8	123.1	215.1	210.8	50.7	30.3	37.0	34.6	14.5
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: P450738
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7
2.5°	1087.3	1094.7	1099.8	1105.4	1110.5	1112.0	1110.9	1114.4	1114.8	1115.2	1115.6
5°	1093.6	1103.8	1113.6	1119.1	1121.5	1119.5	1112.8	1109.3	1106.1	1103.8	1104.6
7.5°	1102.2	1116.8	1125.8	1128.2	1121.9	1112.8	1096.3	1083.3	1075.1	1069.6	1069.2
10°	1115.6	1129.7	1137.2	1130.5	1113.2	1091.2	1065.2	1040.9	1022.4	1016.9	1016.5
12.5°	1132.5	1148.6	1148.2	1128.6	1098.3	1059.0	1016.9	988.6	963.4	950.8	955.9
15°	1154.5	1166.7	1155.3	1119.9	1071.9	1018.1	966.2	927.6	899.3	885.9	886.7
17.5°	1180.1	1190.7	1160.4	1104.6	1035.0	965.8	905.6	869.0	846.6	836.8	836.0
20°	1211.9	1215.1	1160.4	1077.8	987.4	904.8	847.4	821.8	809.3	804.1	805.7
22.5°	1246.1	1239.8	1154.1	1040.1	924.9	841.1	802.6	791.2	784.9	784.1	784.9
25°	1284.7	1267.0	1141.1	989.0	859.6	786.1	763.6	765.6	766.8	766.8	769.5
27.5°	1331.8	1296.5	1119.5	924.5	783.3	734.9	728.6	742.4	748.7	749.9	751.8
30°	1394.0	1328.7	1083.7	843.9	718.4	688.9	699.9	718.4	725.5	729.8	729.0
32.5°	1467.9	1364.1	1035.4	763.2	666.1	656.7	670.1	688.9	696.8	699.2	696.0
35°	1554.8	1404.2	971.7	687.7	620.5	626.0	641.7	647.6	654.7	654.7	656.3
37.5°	1648.4	1436.4	893.8	618.5	585.1	605.2	616.6	611.1	607.9	604.0	606.0
40°	1743.6	1460.4	792.7	550.1	549.7	583.5	586.7	571.0	558.4	554.4	552.5
42.5°	1826.5	1475.4	701.5	497.0	516.3	562.3	564.7	539.5	519.4	507.7	503.7
45°	1924.4	1492.7	612.2	453.0	485.2	545.4	551.3	517.5	488.0	463.2	456.9
47.5°	2058.5	1532.0	541.9	418.8	462.8	534.8	543.0	499.4	460.5	428.2	423.1
50°	2209.9	1585.9	487.2	395.6	445.5	525.3	535.6	480.9	434.9	399.1	395.2
52.5°	2348.7	1615.0	440.0	374.7	428.6	508.0	525.7	467.5	409.7	370.0	366.5
55°	2424.6	1567.8	393.6	354.3	405.4	485.6	512.0	449.1	385.4	354.7	349.6
57.5°	2434.8	1470.3	351.5	332.3	381.0	458.1	486.4	426.6	369.6	344.1	339.7
60°	2355.8	1324.8	318.9	314.2	356.3	427.0	457.7	407.0	353.5	332.3	327.9
62.5°	2159.2	1166.7	296.1	297.7	331.1	394.4	436.5	388.1	338.2	319.3	315.4
65°	1821.0	963.0	274.1	280.8	308.7	368.8	417.2	372.4	322.8	309.5	305.9
67.5°	1265.0	695.2	256.0	263.1	287.4	342.9	394.8	355.5	305.5	298.5	293.0
70°	700.3	427.8	234.8	243.0	265.4	313.8	369.6	329.9	280.4	277.2	269.4
72.5°	368.1	272.5	210.8	219.8	235.5	276.4	331.1	302.0	255.6	242.2	232.0
74°	287.4	223.4	194.6	204.1	214.7	254.4	308.3	281.9	237.9	222.2	214.3
75°	250.5	199.0	180.9	193.1	202.5	239.5	290.6	267.8	228.1	213.1	206.0
77.5°	177.0	149.0	147.9	162.4	167.5	210.0	261.9	243.8	203.3	187.6	180.9
80°	124.3	111.7	117.2	126.2	133.3	185.6	243.0	210.8	166.7	148.2	145.9
82.5°	81.0	73.1	83.8	92.0	94.4	136.8	196.2	160.0	121.5	98.7	91.6
85°	37.4	36.6	48.0	46.8	46.4	66.8	116.4	93.6	70.0	52.3	49.2
87.5°	9.4	9.0	11.8	9.8	11.8	10.2	10.6	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)