

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: P450926

Luminaire Tested: **GALN-SA1D-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6978 lumens
Efficiency: N/A
Efficacy: 107.4 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

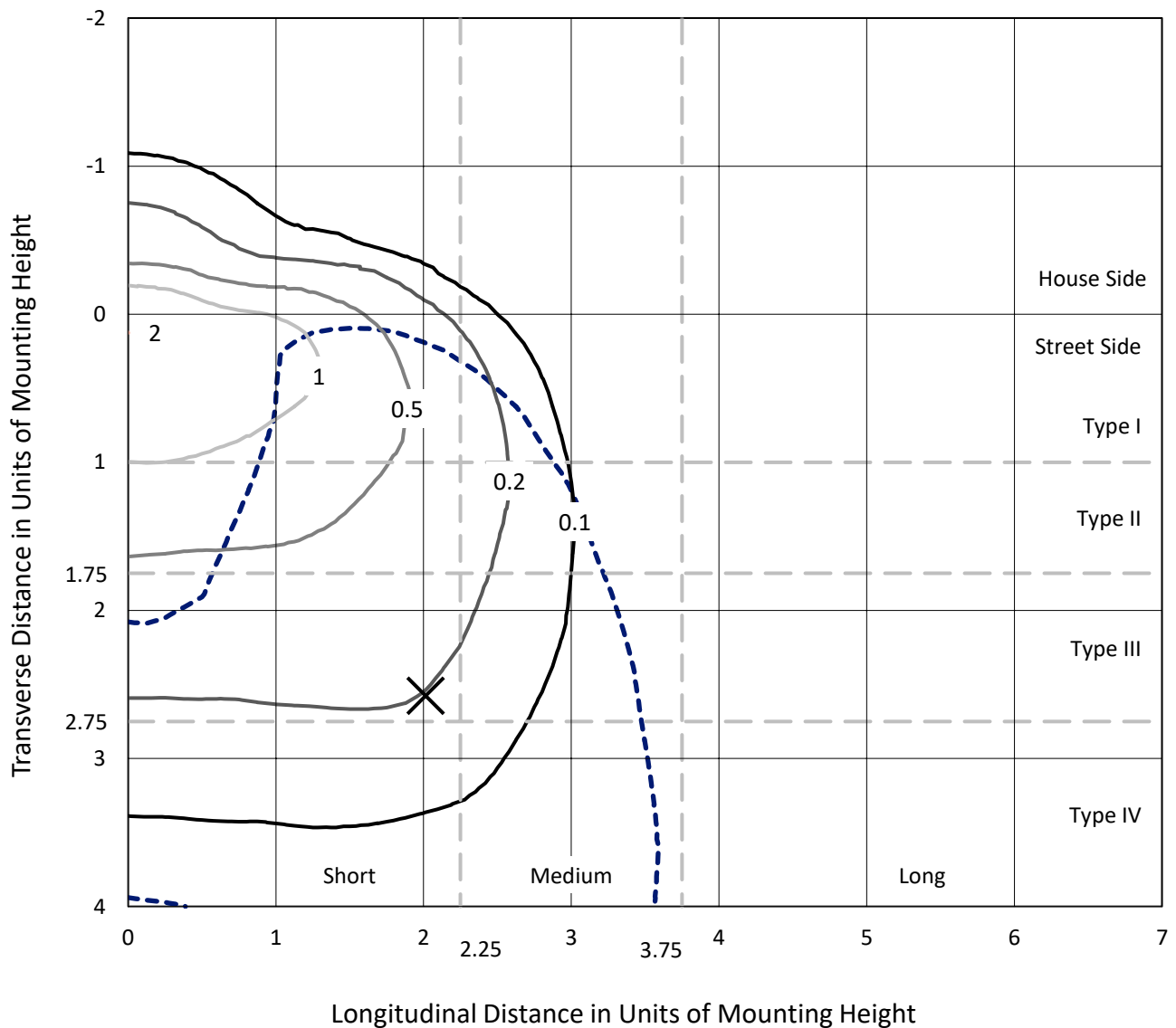
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

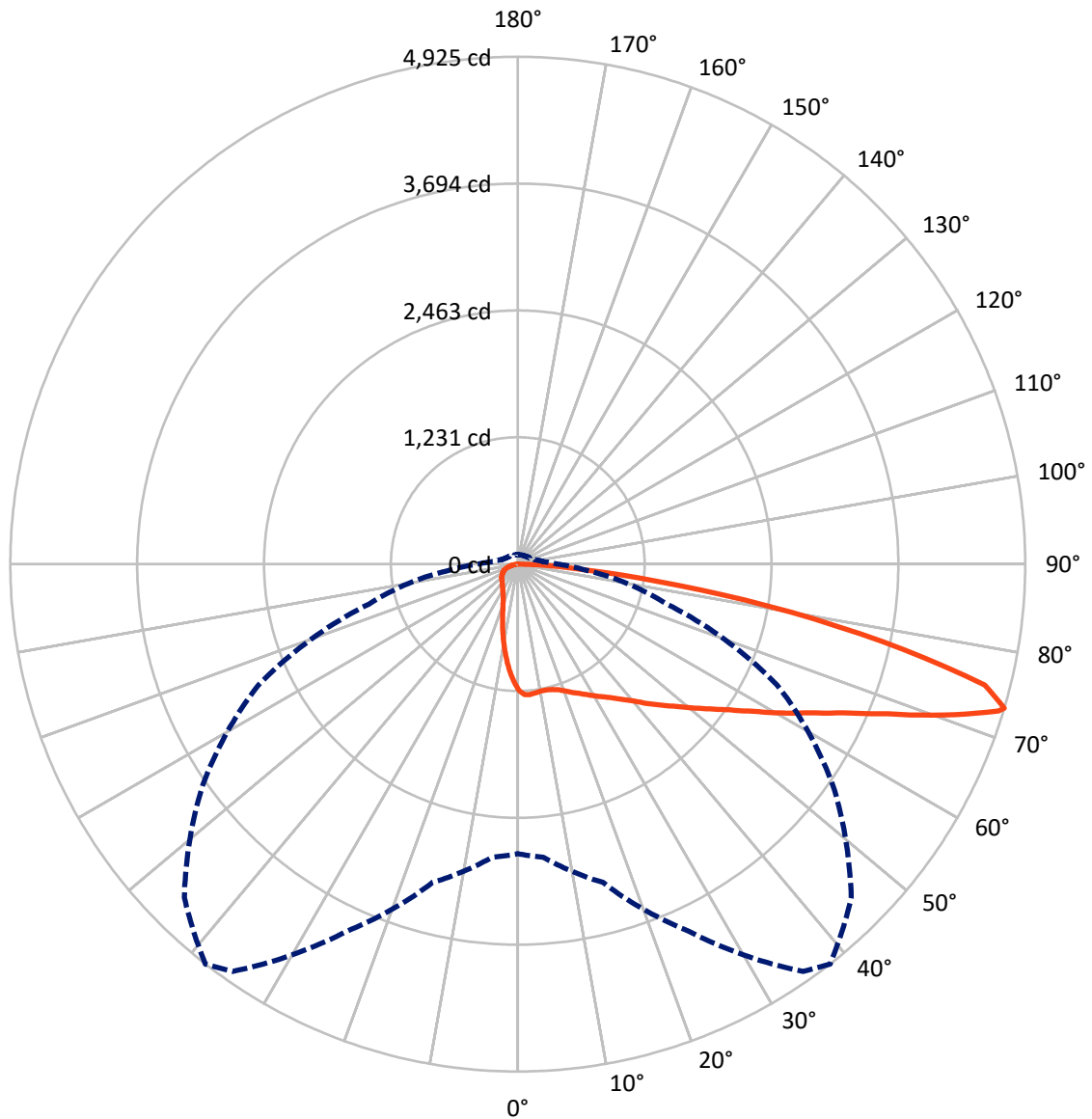
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.1	0.0	938.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6039.9	0.0	6039.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	6978.0	0.0	6978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	1.5
10°-20°	274.4	3.9
20°-30°	427.3	6.1
30°-40°	626.8	9.0
40°-50°	929.7	13.3
50°-60°	1317.2	18.9
60°-70°	1670.9	23.9
70°-80°	1390.9	19.9
80°-90°	233.7	3.3
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°	6978.0	100.0
0°-180°	6978.0	100.0

Coefficient of Utilization



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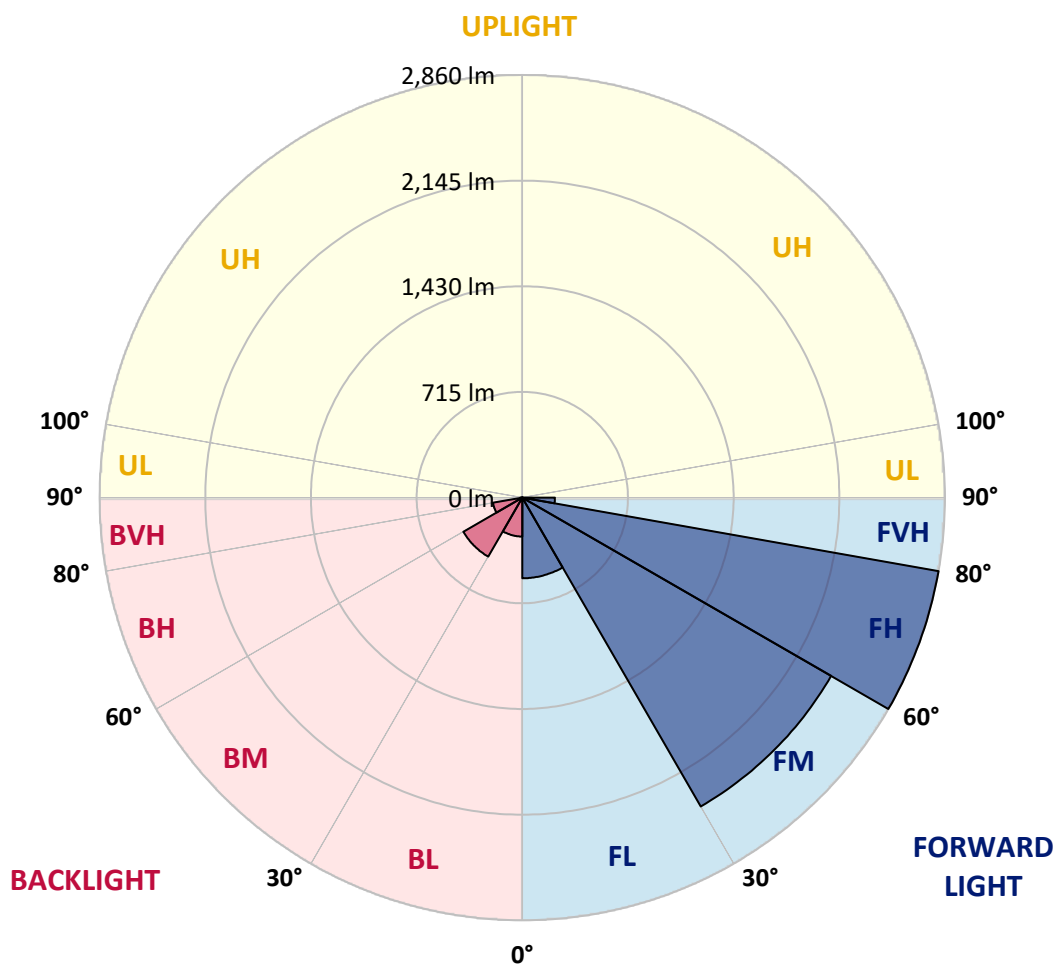
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.5	7.8			
FM (30°-60°)	2413.2	34.6			
FH (60°-80°)	2860.2	41.0			G2/5000
FVH (80°-90°)	221.0	3.2			G2/225
BL (0°-30°)	263.2	3.8	B1/500		
BM (30°-60°)	460.5	6.6	B1/1000		
BH (60°-80°)	201.6	2.9	B1/500		G1/500
BVH (80°-90°)	12.7	0.2			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°	35°	38°	45°	55°	65°	75°	85°
0°	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9
2.5°	1275.2	1281.5	1278.3	1274.0	1271.2	1268.5	1264.5	1253.1	1244.0	1234.2	1218.8
5°	1284.6	1288.6	1285.8	1280.3	1274.0	1271.2	1263.7	1248.8	1234.2	1217.6	1194.8
7.5°	1279.1	1280.7	1277.5	1270.8	1265.3	1260.2	1251.5	1235.0	1217.2	1197.2	1167.2
10°	1259.4	1265.3	1265.3	1259.8	1254.3	1251.5	1242.9	1227.1	1210.9	1188.1	1152.6
12.5°	1243.3	1249.6	1254.7	1253.1	1252.7	1252.7	1246.0	1234.2	1215.3	1193.6	1151.4
15°	1232.2	1239.7	1250.7	1257.0	1261.0	1262.2	1259.4	1249.2	1229.9	1204.6	1156.2
17.5°	1229.9	1238.9	1259.0	1272.8	1283.1	1282.7	1281.9	1267.7	1246.4	1220.4	1162.1
20°	1240.5	1252.3	1280.3	1302.0	1316.9	1314.2	1309.9	1291.3	1266.5	1237.3	1167.6
22.5°	1272.4	1284.6	1315.4	1339.0	1353.6	1353.6	1340.6	1316.2	1289.8	1257.0	1175.1
25°	1318.1	1331.5	1364.2	1388.3	1395.0	1389.8	1376.8	1347.3	1316.9	1285.4	1190.8
27.5°	1374.1	1390.2	1420.6	1440.7	1438.7	1434.8	1421.4	1383.5	1353.2	1324.4	1217.6
30°	1443.8	1455.7	1487.2	1491.9	1484.8	1484.0	1465.1	1427.3	1398.9	1376.8	1255.9
32.5°	1509.6	1520.3	1545.5	1547.5	1534.9	1536.4	1518.7	1484.0	1467.9	1460.0	1320.1
35°	1579.4	1584.9	1606.6	1604.2	1595.9	1594.8	1587.7	1554.6	1559.7	1573.9	1411.1
37.5°	1637.7	1648.7	1661.0	1662.9	1662.5	1666.5	1671.2	1655.4	1685.0	1729.5	1530.5
40°	1691.3	1700.8	1718.9	1725.2	1740.6	1748.4	1764.6	1765.0	1833.2	1906.5	1677.5
42.5°	1727.6	1743.7	1777.6	1789.0	1826.5	1850.1	1874.1	1899.8	1998.7	2092.8	1850.9
45°	1759.1	1780.4	1836.7	1872.2	1923.0	1951.8	2002.6	2056.2	2198.5	2321.8	2027.0
47.5°	1806.8	1825.7	1890.3	1953.0	2029.8	2062.9	2139.0	2218.9	2404.9	2540.1	2195.7
50°	1873.0	1884.4	1950.2	2052.3	2150.4	2192.9	2293.4	2408.9	2625.6	2755.7	2343.9
52.5°	1957.7	1962.4	2014.8	2150.8	2280.0	2332.8	2466.0	2600.8	2818.7	2942.8	2461.3
55°	2057.8	2049.9	2090.9	2255.2	2428.2	2497.1	2640.2	2795.1	3035.8	3094.1	2546.8
57.5°	2156.7	2144.5	2177.2	2382.1	2611.0	2694.2	2860.9	2995.2	3229.7	3235.6	2606.7
60°	2261.5	2252.4	2291.5	2531.0	2835.3	2933.8	3087.8	3202.9	3417.3	3334.1	2616.2
62.5°	2369.1	2354.5	2410.1	2698.5	3087.8	3177.3	3326.6	3423.6	3601.3	3370.8	2525.1
65°	2473.5	2466.8	2552.7	2897.5	3375.5	3477.2	3622.2	3688.0	3748.7	3315.6	2299.3
67.5°	2584.6	2598.0	2735.2	3163.1	3750.6	3878.3	4034.8	3972.9	3790.8	3054.3	1936.4
70°	2754.1	2762.7	2974.7	3511.1	4234.2	4388.2	4463.9	4074.2	3587.5	2558.2	1455.7
72.5°	2827.0	2865.2	3188.7	3876.4	4783.5	4877.7	4608.1	3848.4	2988.5	1737.8	764.9
73°	2810.8	2856.5	3198.6	3931.9	4826.4	4925.3	4577.4	3732.1	2778.1	1496.6	655.7
75°	2609.5	2665.8	3070.5	3885.4	4742.9	4683.8	4083.2	3180.8	1877.3	680.5	298.7
77.5°	2059.0	2075.1	2432.9	3137.5	3734.9	3625.3	3055.9	1988.0	766.8	253.0	169.4
80°	1032.8	1092.3	1371.3	1797.3	2497.5	2461.7	1928.9	940.2	319.6	148.6	112.3
82.5°	496.9	539.1	667.9	876.4	1380.0	1347.3	955.2	513.9	202.9	86.7	66.2
85°	320.0	351.5	425.2	418.1	567.4	541.8	429.1	388.9	120.2	45.3	46.1
87.5°	211.2	231.3	277.4	221.9	206.5	186.8	189.5	219.1	23.6	17.3	6.3
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°	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9
2.5°	1212.5	1207.4	1190.5	1173.9	1158.1	1143.2	1133.3	1120.3	1111.6	1114.0	1117.6
5°	1182.2	1170.7	1140.8	1111.6	1084.1	1051.3	1024.9	1003.7	987.5	981.6	980.4
7.5°	1150.3	1130.9	1088.0	1038.0	991.1	950.5	903.6	880.3	853.1	843.7	840.5
10°	1130.9	1104.9	1044.6	974.9	904.4	837.0	786.1	744.8	707.3	700.2	696.7
12.5°	1125.4	1091.1	1010.0	920.1	826.3	743.6	668.3	613.9	577.7	569.4	557.2
15°	1122.3	1079.7	977.7	865.0	746.0	645.1	565.9	502.4	469.3	447.3	447.7
17.5°	1119.5	1066.7	941.4	804.7	676.6	560.4	472.9	415.7	385.4	373.6	372.4
20°	1115.6	1051.3	899.6	741.2	597.4	483.1	403.9	361.4	340.9	331.0	330.6
22.5°	1114.0	1036.4	858.7	676.6	527.3	423.6	358.2	328.3	315.2	308.5	308.5
25°	1117.9	1025.7	815.7	615.1	465.0	372.8	326.7	306.2	298.7	295.1	294.0
27.5°	1130.2	1021.0	773.1	553.7	407.9	338.1	305.4	291.2	285.7	282.9	283.3
30°	1153.4	1020.6	731.4	493.0	365.3	311.7	288.5	278.6	274.3	272.7	272.3
32.5°	1190.8	1029.3	690.4	442.9	329.4	289.6	272.7	265.6	263.6	262.4	262.0
35°	1254.3	1053.7	649.8	397.2	301.8	269.9	257.7	254.2	251.4	252.6	253.0
37.5°	1339.8	1095.9	611.2	361.4	281.0	255.3	245.1	242.0	240.4	241.6	242.7
40°	1454.5	1156.6	578.9	332.6	266.0	243.1	234.1	231.3	229.7	231.7	232.1
42.5°	1581.0	1226.7	552.1	310.1	253.8	232.9	224.2	221.1	219.9	221.1	221.5
45°	1711.0	1308.3	538.3	294.0	243.5	225.4	216.3	212.8	210.0	209.2	210.4
47.5°	1839.1	1379.2	537.9	284.1	235.3	218.7	208.9	204.9	201.4	199.4	199.0
50°	1943.5	1435.6	547.3	279.8	228.2	211.2	201.4	197.4	192.7	188.8	189.5
52.5°	2022.3	1472.2	551.7	277.8	224.2	203.3	193.5	189.9	184.4	179.3	179.3
55°	2073.1	1480.9	541.0	275.8	221.1	195.1	184.4	181.3	175.8	170.6	170.6
57.5°	2090.5	1454.1	502.8	271.1	217.9	188.0	175.4	172.6	168.3	163.1	162.4
60°	2050.3	1363.4	435.8	256.9	211.6	180.5	165.5	164.3	162.7	158.4	158.0
62.5°	1895.4	1171.1	362.9	238.4	201.0	172.6	156.4	158.4	159.6	157.2	156.8
65°	1637.7	950.9	310.1	212.8	186.8	161.6	146.6	151.7	154.9	154.9	154.1
67.5°	1328.4	730.2	261.3	190.7	169.1	146.6	135.6	139.5	141.9	141.1	143.0
70°	944.2	494.5	212.8	165.5	146.6	129.6	121.4	121.4	119.8	119.0	119.0
72.5°	457.9	282.5	172.6	138.3	124.9	110.7	104.0	101.3	98.1	97.7	95.8
73°	382.6	253.4	164.7	133.2	119.8	108.0	100.5	96.2	94.2	92.6	92.2
75°	232.9	192.3	137.5	112.3	102.1	93.0	86.3	82.4	80.4	79.2	78.8
77.5°	153.3	143.4	106.8	85.9	78.0	72.5	69.7	65.8	64.6	63.0	63.0
80°	114.3	109.5	76.4	60.7	56.0	51.2	50.4	49.7	46.5	44.5	43.7
82.5°	73.7	78.0	52.0	40.6	35.5	31.5	31.9	33.1	29.9	27.2	26.4
85°	52.4	56.4	31.5	18.5	15.0	13.0	14.6	13.0	13.4	10.6	8.7
87.5°	8.7	15.0	5.5	2.4	1.2	0.8	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)