

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: P450694

Luminaire Tested: **GALN-SA1C-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450694
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-SA1C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 6342 lumens
Efficiency: N/A
Efficacy: 111.3 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

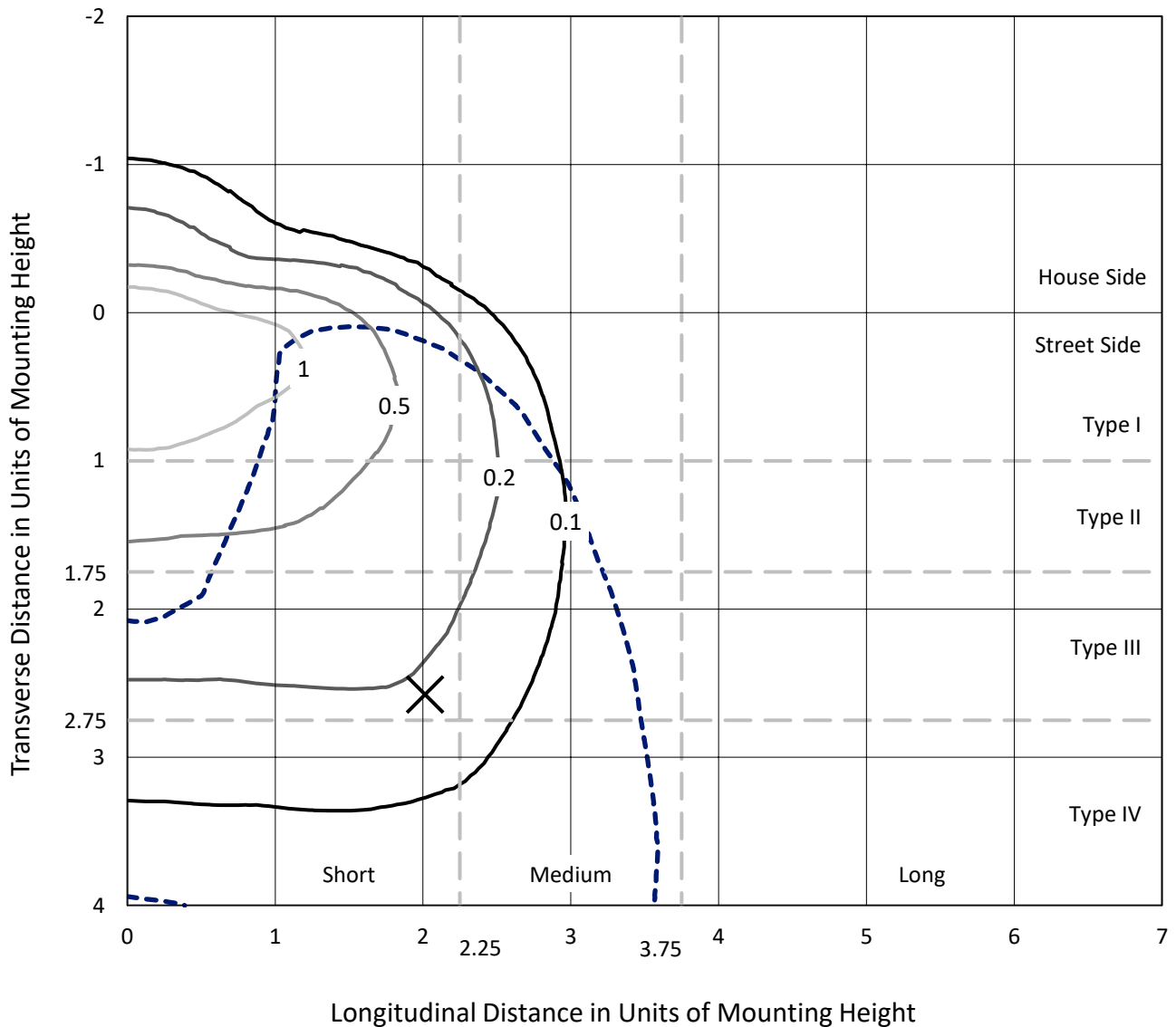
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

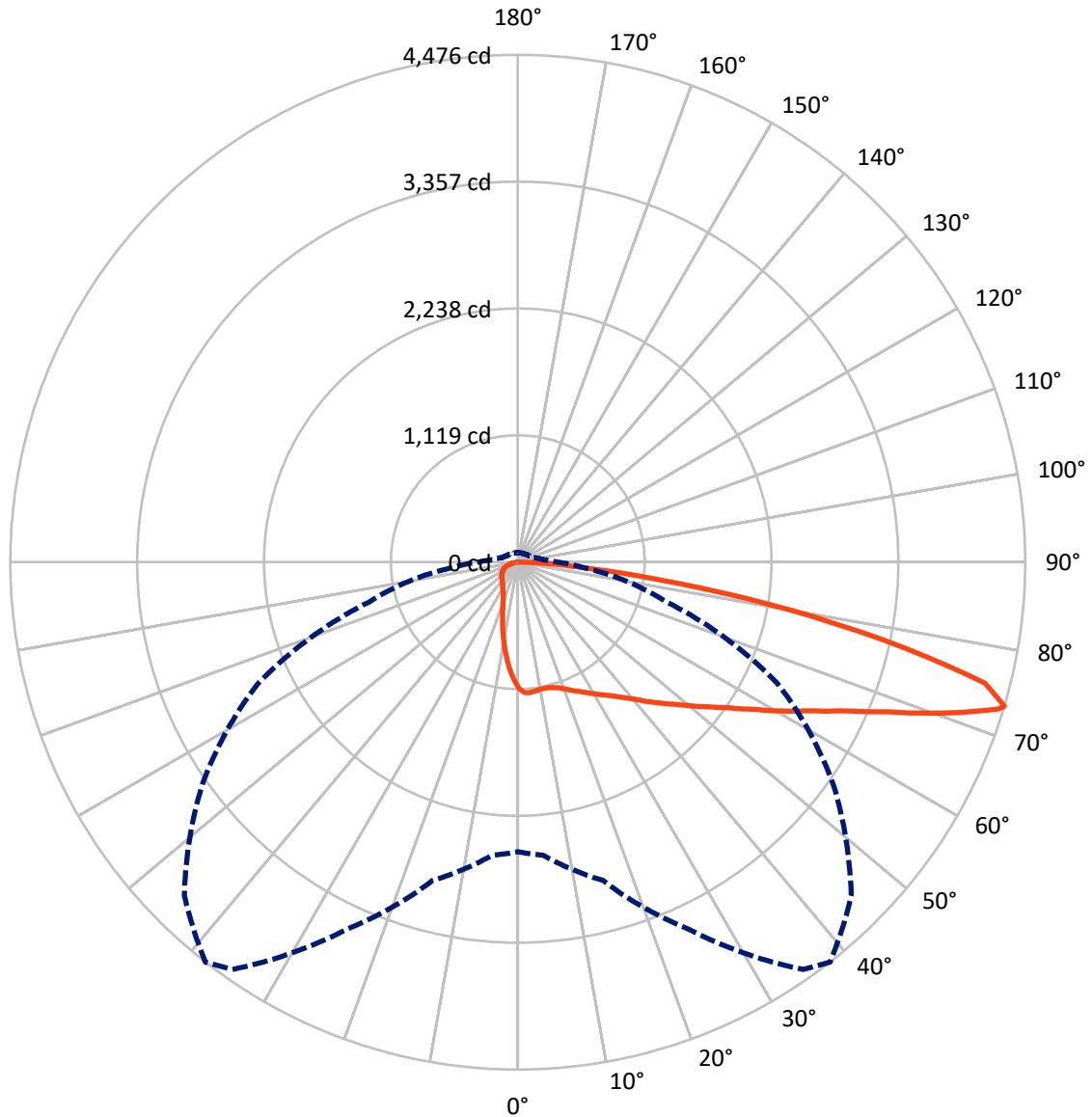
× Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.6	0.0	852.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5489.4	0.0	5489.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	6342.0	0.0	6342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.5
10°-20°	249.4	3.9
20°-30°	388.4	6.1
30°-40°	569.6	9.0
40°-50°	845.0	13.3
50°-60°	1197.2	18.9
60°-70°	1518.6	23.9
70°-80°	1264.2	19.9
80°-90°	212.4	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°	6342.0	100.0
0°-180°	6342.0	100.0

Coefficient of Utilization



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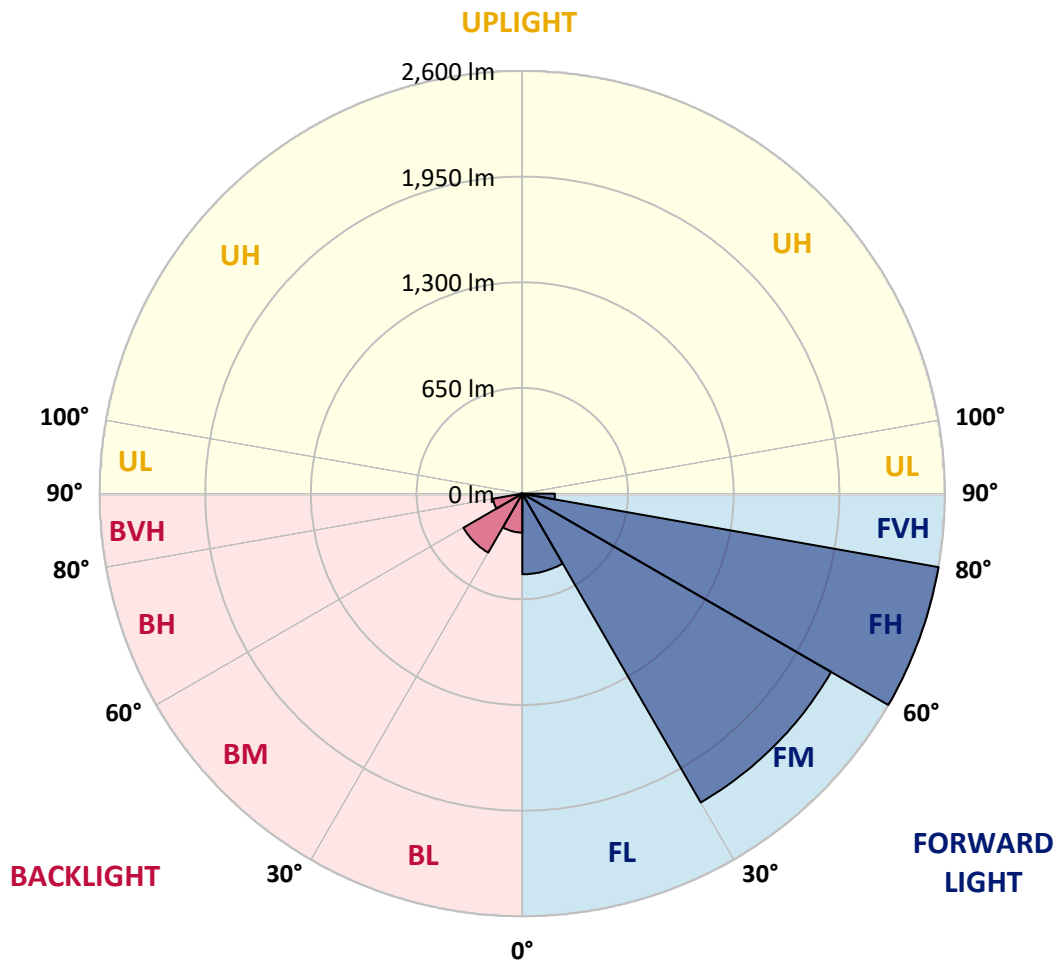
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.8	7.8			
FM (30°-60°)	2193.2	34.6			
FH (60°-80°)	2599.6	41.0			G2/5000
FVH (80°-90°)	200.9	3.2			G2/225
BL (0°-30°)	239.2	3.8	B1/500		
BM (30°-60°)	418.6	6.6	B1/1000		
BH (60°-80°)	183.3	2.9	B1/500		G1/500
BVH (80°-90°)	11.5	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°	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1158.9	1164.7	1161.8	1157.9	1155.4	1152.9	1149.3	1138.9	1130.7	1121.7	1107.7
5°	1167.5	1171.1	1168.6	1163.6	1157.9	1155.4	1148.6	1135.0	1121.7	1106.7	1085.9
7.5°	1162.5	1164.0	1161.1	1155.0	1150.0	1145.3	1137.5	1122.4	1106.3	1088.0	1060.8
10°	1144.6	1150.0	1150.0	1145.0	1140.0	1137.5	1129.6	1115.3	1100.6	1079.8	1047.6
12.5°	1129.9	1135.7	1140.3	1138.9	1138.5	1138.5	1132.4	1121.7	1104.5	1084.8	1046.5
15°	1119.9	1126.7	1136.7	1142.5	1146.1	1147.1	1144.6	1135.3	1117.8	1094.8	1050.8
17.5°	1117.8	1126.0	1144.3	1156.8	1166.1	1165.8	1165.0	1152.1	1132.8	1109.2	1056.2
20°	1127.4	1138.2	1163.6	1183.3	1196.9	1194.4	1190.5	1173.6	1151.1	1124.6	1061.2
22.5°	1156.4	1167.5	1195.5	1217.0	1230.2	1230.2	1218.4	1196.2	1172.2	1142.5	1068.0
25°	1198.0	1210.2	1239.9	1261.7	1267.8	1263.2	1251.4	1224.5	1196.9	1168.3	1082.3
27.5°	1248.8	1263.5	1291.1	1309.4	1307.6	1304.0	1291.8	1257.4	1229.9	1203.7	1106.7
30°	1312.2	1323.0	1351.6	1355.9	1349.5	1348.8	1331.6	1297.2	1271.4	1251.4	1141.4
32.5°	1372.0	1381.7	1404.6	1406.4	1395.0	1396.4	1380.3	1348.8	1334.1	1326.9	1199.8
35°	1435.4	1440.4	1460.1	1458.0	1450.5	1449.4	1443.0	1412.9	1417.5	1430.4	1282.5
37.5°	1488.4	1498.5	1509.6	1511.4	1511.0	1514.6	1518.9	1504.6	1531.4	1571.9	1391.0
40°	1537.1	1545.7	1562.2	1567.9	1581.9	1589.1	1603.8	1604.1	1666.1	1732.7	1524.6
42.5°	1570.1	1584.8	1615.6	1626.0	1660.0	1681.5	1703.3	1726.6	1816.5	1902.1	1682.2
45°	1598.7	1618.1	1669.3	1701.5	1747.7	1773.9	1820.1	1868.8	1998.1	2110.2	1842.3
47.5°	1642.1	1659.3	1718.0	1775.0	1844.8	1874.9	1944.0	2016.7	2185.7	2308.6	1995.6
50°	1702.3	1712.6	1772.4	1865.2	1954.4	1993.1	2084.4	2189.3	2386.3	2504.5	2130.2
52.5°	1779.3	1783.6	1831.2	1954.7	2072.2	2120.2	2241.3	2363.7	2561.8	2674.6	2237.0
55°	1870.2	1863.1	1900.3	2049.7	2206.9	2269.6	2399.6	2540.3	2759.1	2812.1	2314.7
57.5°	1960.1	1949.0	1978.7	2165.0	2373.1	2448.6	2600.1	2722.2	2935.3	2940.7	2369.1
60°	2055.4	2047.1	2082.6	2300.4	2576.8	2666.4	2806.4	2911.0	3105.8	3030.2	2377.7
62.5°	2153.2	2139.9	2190.4	2452.6	2806.4	2887.7	3023.4	3111.5	3273.1	3063.6	2295.0
65°	2248.1	2242.0	2320.0	2633.4	3067.9	3160.3	3292.0	3351.9	3407.0	3013.4	2089.8
67.5°	2349.1	2361.2	2485.9	2874.8	3408.8	3524.8	3667.0	3610.8	3445.3	2776.0	1759.9
70°	2503.1	2510.9	2703.6	3191.1	3848.2	3988.3	4057.0	3702.8	3260.5	2325.1	1323.0
72.5°	2569.3	2604.1	2898.1	3523.0	4347.5	4433.1	4188.1	3497.6	2716.2	1579.4	695.2
73°	2554.6	2596.2	2907.0	3573.5	4386.5	4476.4	4160.2	3392.0	2524.9	1360.2	595.9
75°	2371.6	2422.8	2790.6	3531.3	4310.6	4256.9	3711.1	2890.9	1706.2	618.5	271.5
77.5°	1871.3	1886.0	2211.2	2851.5	3394.5	3294.9	2777.4	1806.8	696.9	229.9	154.0
80°	938.7	992.8	1246.3	1633.5	2269.9	2237.3	1753.1	854.5	290.5	135.0	102.1
82.5°	451.6	489.9	607.1	796.5	1254.2	1224.5	868.1	467.0	184.4	78.8	60.2
85°	290.8	319.5	386.4	380.0	515.7	492.4	390.0	353.5	109.2	41.2	41.9
87.5°	192.0	210.2	252.1	201.6	187.7	169.8	172.3	199.1	21.5	15.8	5.7
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°	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1102.0	1097.3	1081.9	1066.9	1052.6	1039.0	1030.0	1018.2	1010.3	1012.5	1015.7
5°	1074.4	1064.0	1036.8	1010.3	985.3	955.5	931.5	912.2	897.5	892.1	891.1
7.5°	1045.4	1027.9	988.8	943.3	900.7	863.8	821.2	800.1	775.4	766.8	763.9
10°	1027.9	1004.2	949.4	886.0	821.9	760.7	714.5	676.9	642.9	636.4	633.2
12.5°	1022.9	991.7	917.9	836.3	751.0	675.8	607.4	558.0	525.0	517.5	506.4
15°	1020.0	981.3	888.6	786.1	678.0	586.3	514.3	456.6	426.5	406.5	406.9
17.5°	1017.5	969.5	855.6	731.3	614.9	509.3	429.8	377.8	350.3	339.5	338.4
20°	1013.9	955.5	817.6	673.7	542.9	439.1	367.1	328.4	309.8	300.8	300.5
22.5°	1012.5	941.9	780.4	614.9	479.2	385.0	325.6	298.3	286.5	280.4	280.4
25°	1016.1	932.2	741.4	559.1	422.6	338.8	296.9	278.3	271.5	268.2	267.2
27.5°	1027.2	927.9	702.7	503.2	370.7	307.3	277.6	264.7	259.7	257.1	257.5
30°	1048.3	927.6	664.7	448.0	332.0	283.3	262.2	253.2	249.3	247.8	247.5
32.5°	1082.3	935.5	627.5	402.6	299.4	263.2	247.8	241.4	239.6	238.5	238.2
35°	1140.0	957.7	590.6	361.0	274.3	245.3	234.2	231.0	228.5	229.6	229.9
37.5°	1217.7	996.0	555.5	328.4	255.4	232.1	222.8	219.9	218.5	219.5	220.6
40°	1321.9	1051.1	526.1	302.3	241.7	221.0	212.7	210.2	208.8	210.6	210.9
42.5°	1436.9	1114.9	501.8	281.9	230.6	211.7	203.8	200.9	199.8	200.9	201.3
45°	1555.1	1189.0	489.2	267.2	221.3	204.9	196.6	193.4	190.9	190.2	191.2
47.5°	1671.5	1253.5	488.9	258.2	213.8	198.8	189.8	186.2	183.0	181.2	180.9
50°	1766.4	1304.7	497.5	254.3	207.4	192.0	183.0	179.4	175.1	171.6	172.3
52.5°	1838.0	1338.0	501.4	252.5	203.8	184.8	175.8	172.6	167.6	163.0	163.0
55°	1884.2	1345.9	491.7	250.7	200.9	177.3	167.6	164.7	159.7	155.1	155.1
57.5°	1899.9	1321.5	457.0	246.4	198.1	170.8	159.4	156.9	152.9	148.3	147.6
60°	1863.4	1239.2	396.1	233.5	192.3	164.0	150.4	149.3	147.9	144.0	143.6
62.5°	1722.7	1064.4	329.8	216.7	182.7	156.9	142.2	144.0	145.0	142.9	142.5
65°	1488.4	864.2	281.9	193.4	169.8	146.8	133.2	137.9	140.8	140.8	140.0
67.5°	1207.3	663.6	237.4	173.3	153.6	133.2	123.2	126.8	128.9	128.2	130.0
70°	858.1	449.5	193.4	150.4	133.2	117.8	110.3	110.3	108.9	108.2	108.2
72.5°	416.2	256.8	156.9	125.7	113.5	100.6	94.5	92.0	89.2	88.8	87.0
73°	347.8	230.3	149.7	121.1	108.9	98.1	91.3	87.4	85.6	84.2	83.8
75°	211.7	174.8	125.0	102.1	92.8	84.5	78.4	74.9	73.1	72.0	71.6
77.5°	139.3	130.4	97.1	78.1	70.9	65.9	63.4	59.8	58.7	57.3	57.3
80°	103.9	99.6	69.5	55.2	50.9	46.6	45.8	45.1	42.3	40.5	39.8
82.5°	67.0	70.9	47.3	36.9	32.2	28.7	29.0	30.1	27.2	24.7	24.0
85°	47.6	51.2	28.7	16.8	13.6	11.8	13.3	11.8	12.2	9.7	7.9
87.5°	7.9	13.6	5.0	2.1	1.1	0.7	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)