

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: P458578

Luminaire Tested: **GALN-SA1C-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6615 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
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

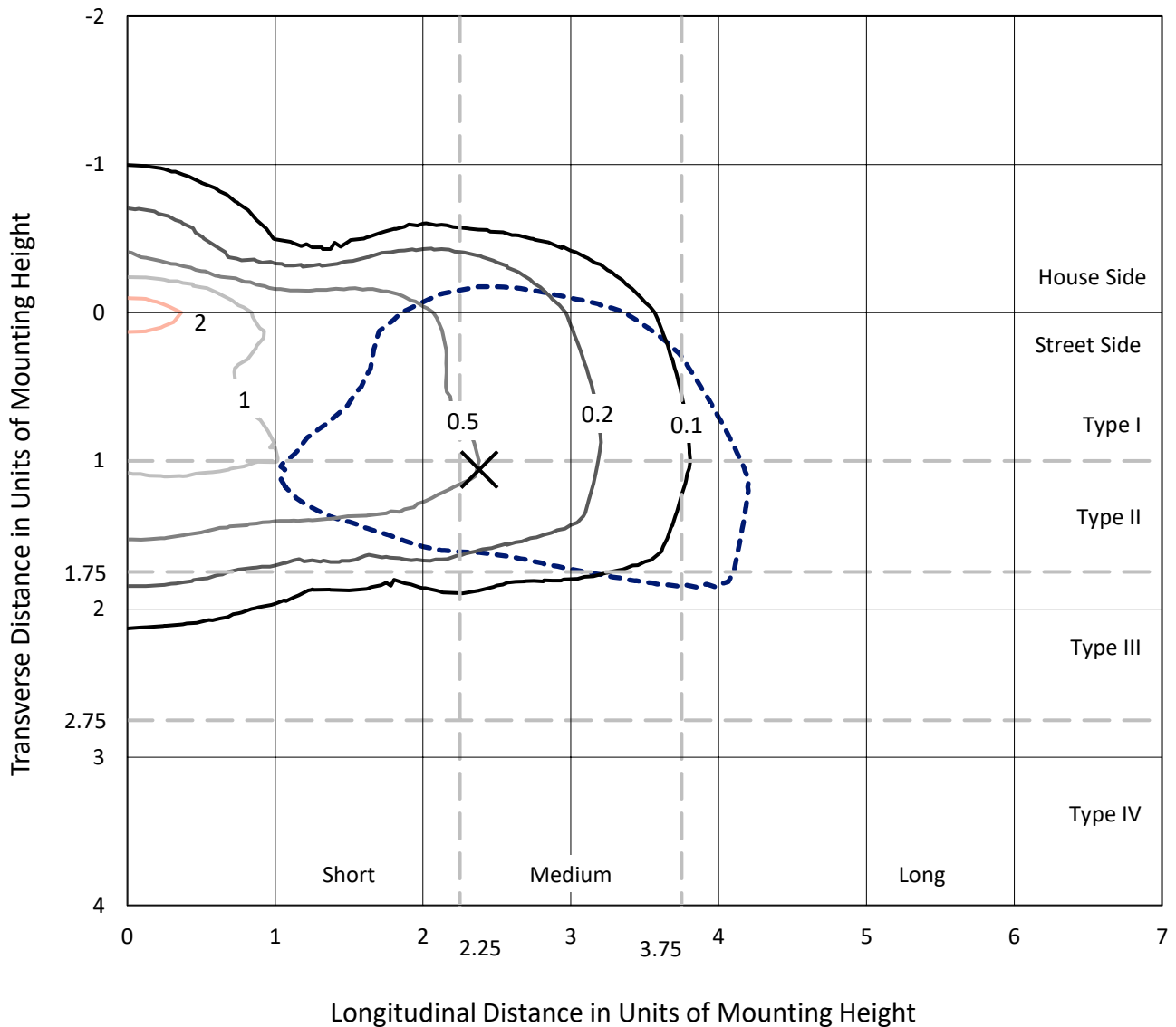




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Iso-Footcandle Lines of Horizontal Illumination

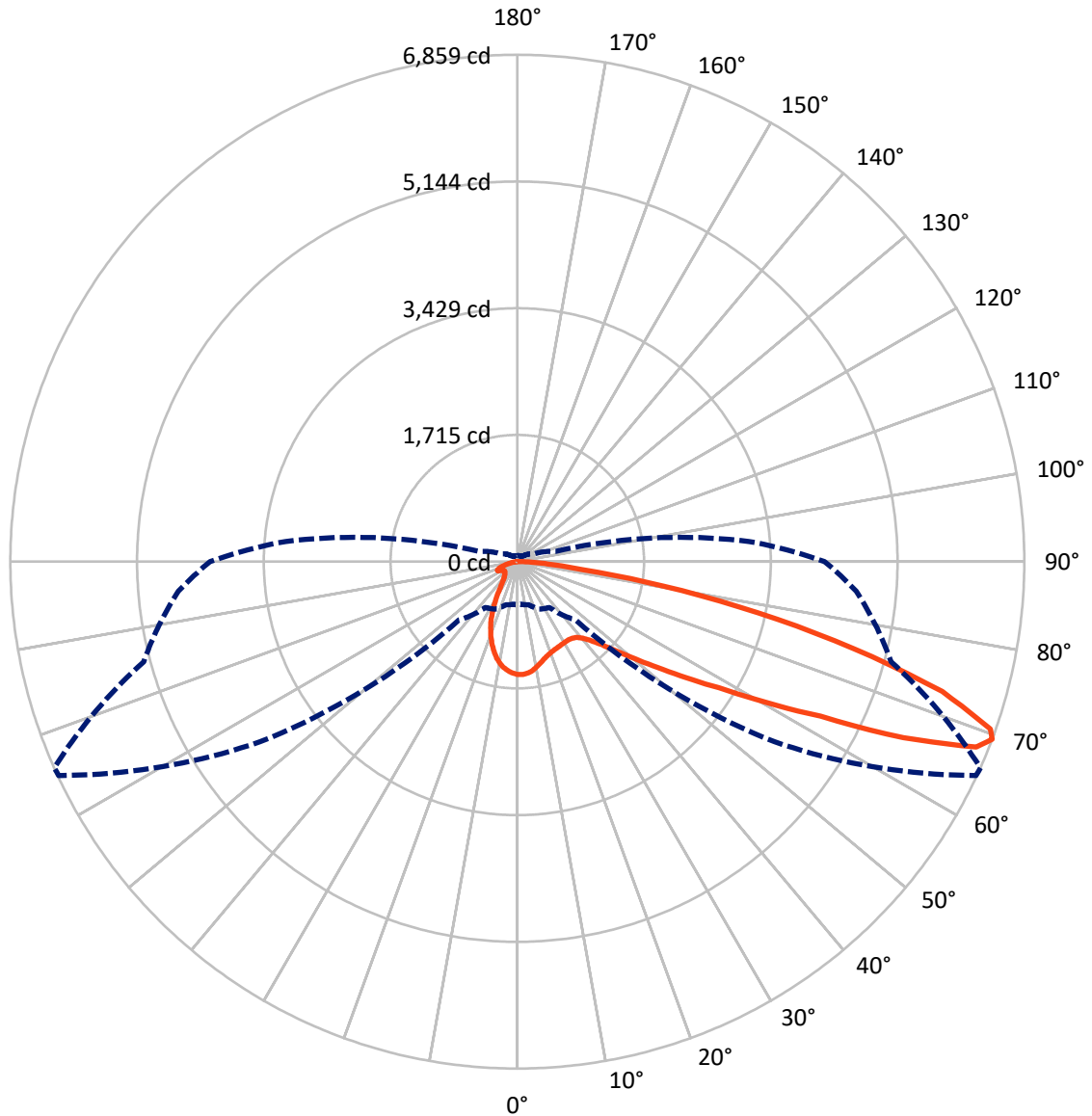
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.0	0.0	1244.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5371.0	0.0	5371.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	6615.0	0.0	6615.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	2.0
10°-20°	314.6	4.8
20°-30°	428.3	6.5
30°-40°	575.6	8.7
40°-50°	859.5	13.0
50°-60°	1367.1	20.7
60°-70°	1681.5	25.4
70°-80°	1094.1	16.5
80°-90°	161.6	2.4
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°	6615.0	100.0
0°-180°	6615.0	100.0



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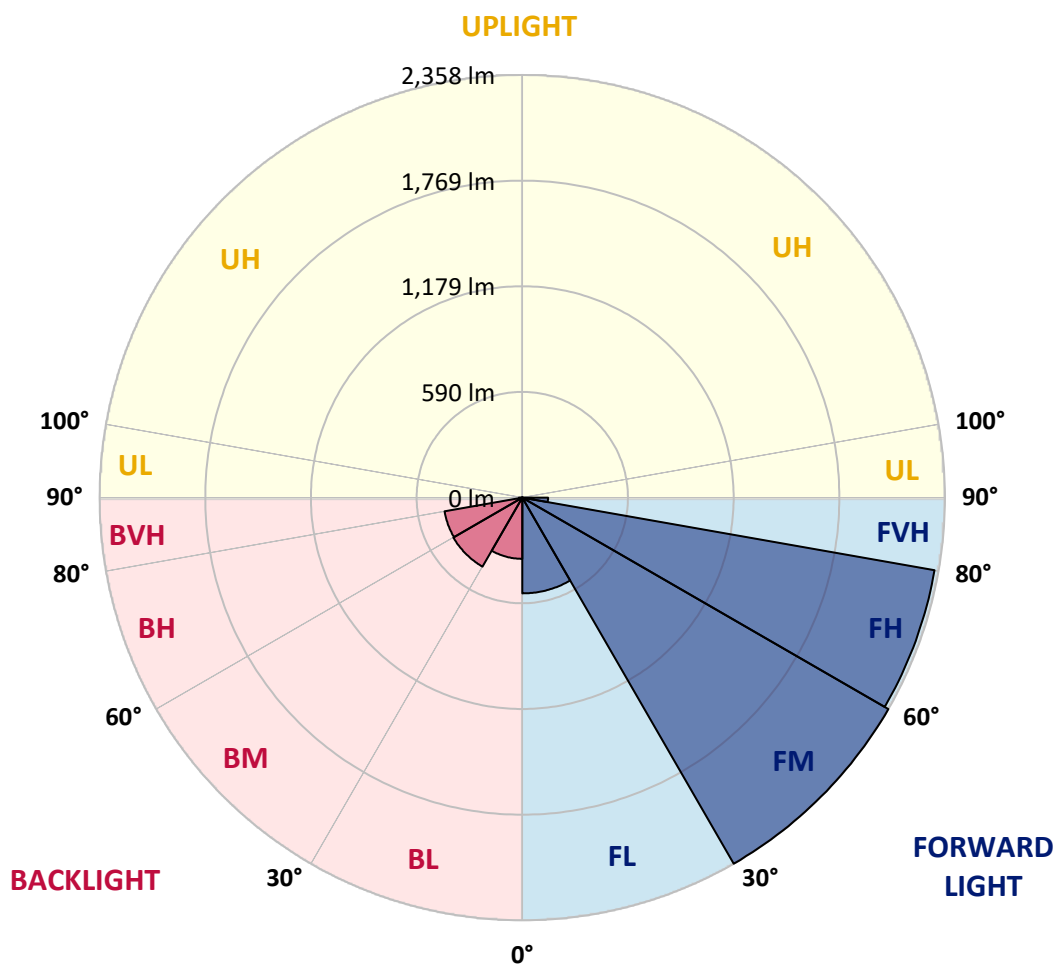
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	534.2	8.1			
FM	(30°-60°)	2358.0	35.6			
FH	(60°-80°)	2335.1	35.3			G2/5000
FVH	(80°-90°)	143.6	2.2			G2/225
BL	(0°-30°)	341.5	5.2	B1/500		
BM	(30°-60°)	444.2	6.7	B1/1000		
BH	(60°-80°)	440.4	6.7	B1/500		G1/500
BVH	(80°-90°)	17.9	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1474.1	1480.0	1486.6	1493.9	1507.8	1515.5	1521.0	1527.2	1528.0	1531.3	1528.7
5°	1365.3	1372.3	1382.2	1396.1	1417.0	1449.6	1483.3	1510.7	1514.0	1529.4	1533.8
7.5°	1274.5	1278.5	1286.5	1308.9	1338.6	1374.8	1423.9	1479.6	1487.7	1524.3	1537.1
10°	1200.5	1204.5	1214.0	1237.1	1266.4	1311.8	1365.7	1438.9	1445.5	1508.5	1537.8
12.5°	1145.1	1148.8	1159.1	1181.8	1215.5	1258.0	1317.3	1395.0	1404.5	1487.7	1530.9
15°	1103.0	1110.0	1118.4	1137.1	1172.6	1213.6	1271.2	1354.7	1362.4	1465.7	1526.1
17.5°	1085.1	1088.4	1094.2	1111.4	1137.4	1177.7	1235.6	1323.2	1332.3	1450.3	1525.0
20°	1085.8	1089.1	1090.2	1099.7	1118.4	1153.2	1210.3	1298.3	1309.3	1436.7	1526.9
22.5°	1110.7	1111.1	1107.0	1103.7	1111.1	1140.0	1192.4	1279.6	1292.4	1430.9	1528.3
25°	1149.2	1155.8	1149.9	1134.5	1121.0	1134.9	1185.4	1269.3	1281.4	1422.5	1526.5
27.5°	1211.4	1212.5	1207.8	1186.9	1151.7	1141.5	1182.5	1261.6	1271.9	1416.2	1517.3
30°	1295.0	1291.7	1287.3	1264.2	1208.9	1166.8	1188.7	1254.7	1265.3	1407.1	1506.3
32.5°	1379.6	1389.8	1385.8	1358.7	1286.9	1215.8	1208.9	1253.9	1262.7	1400.1	1494.3
35°	1469.3	1474.1	1493.2	1479.2	1405.6	1295.3	1246.6	1265.3	1272.3	1400.5	1485.8
37.5°	1539.7	1552.5	1597.2	1609.3	1540.0	1400.5	1307.8	1297.5	1300.5	1418.4	1489.1
40°	1624.7	1646.6	1704.2	1753.6	1708.2	1537.1	1411.8	1357.2	1360.9	1461.6	1510.7
42.5°	1732.4	1747.8	1825.0	1892.1	1884.8	1717.7	1537.8	1455.1	1456.9	1547.7	1571.2
45°	1858.4	1880.4	1967.2	2067.9	2085.1	1922.1	1719.9	1603.1	1602.0	1681.4	1684.0
47.5°	2019.6	2033.1	2119.2	2229.1	2298.7	2178.9	1940.8	1815.5	1803.8	1876.3	1855.5
50°	2167.9	2189.2	2254.4	2374.5	2547.8	2479.7	2231.3	2091.0	2063.5	2131.3	2096.1
52.5°	2230.2	2252.6	2307.5	2456.6	2761.4	2868.7	2600.2	2419.6	2373.8	2425.8	2413.0
55°	2122.1	2151.1	2202.4	2383.7	2855.2	3317.5	3097.7	2799.5	2766.1	2743.8	2747.5
57.5°	1831.6	1859.1	1928.4	2128.4	2743.1	3643.1	3808.0	3287.8	3216.4	3113.4	3131.0
60°	1394.2	1411.5	1447.4	1669.0	2410.8	3727.8	4614.6	3905.1	3859.6	3481.6	3494.0
62.5°	990.2	1009.6	1034.5	1145.1	1765.0	3489.3	5246.2	4767.0	4604.7	3862.9	3850.8
65°	804.1	790.9	820.9	872.6	1035.6	2704.2	5388.3	5963.5	5740.0	4365.2	4197.4
67.5°	661.2	647.3	677.0	768.9	787.6	1569.7	4876.2	6740.1	6695.4	4911.4	4549.4
69°	585.4	578.1	604.1	708.8	756.1	1114.7	4247.9	6848.1	6858.8	5233.4	4603.6
70°	527.5	530.4	555.7	678.4	741.8	919.1	3630.7	6699.0	6789.2	5394.2	4545.0
72.5°	388.3	394.5	429.7	561.9	728.3	779.9	2160.6	5851.4	6010.7	5403.7	4157.8
75°	271.4	268.5	299.7	423.1	688.0	773.0	1269.0	4525.2	4705.8	4670.7	3493.7
77.5°	177.7	182.4	207.3	298.9	578.8	767.1	827.2	3210.5	3327.7	3123.7	2066.5
80°	125.3	124.9	138.8	204.0	429.3	737.1	677.3	2023.6	1993.9	1227.6	612.9
82.5°	71.8	76.9	93.0	143.6	287.2	648.8	623.1	967.8	883.6	349.8	207.0
85°	39.9	41.8	55.3	86.8	167.8	488.7	544.0	440.3	415.4	146.2	89.0
87.5°	12.8	13.9	23.1	44.0	76.2	230.8	308.1	203.3	187.6	52.8	35.9
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°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1529.8	1534.2	1522.5	1511.1	1500.8	1486.6	1473.7	1463.1	1455.8	1454.7	1451.0
5°	1534.9	1535.3	1512.9	1482.9	1453.6	1421.4	1388.0	1364.2	1341.9	1329.4	1323.2
7.5°	1538.6	1535.3	1495.0	1446.3	1389.8	1331.2	1272.6	1225.7	1189.5	1175.2	1180.7
10°	1537.1	1526.9	1467.9	1389.8	1307.8	1220.2	1136.0	1070.0	1009.6	978.5	979.2
12.5°	1529.1	1512.2	1427.6	1326.5	1206.0	1088.7	959.8	870.8	800.8	759.4	746.6
15°	1522.1	1492.8	1380.3	1240.4	1090.6	923.1	766.0	656.1	597.5	564.9	564.5
17.5°	1514.8	1474.1	1328.7	1149.2	957.9	742.5	577.7	493.8	466.3	469.6	464.1
20°	1507.1	1452.1	1274.8	1047.7	796.4	553.9	432.6	398.6	406.3	421.3	423.5
22.5°	1498.3	1428.7	1216.9	936.0	626.4	416.9	350.9	345.8	365.6	389.0	392.3
25°	1484.7	1399.4	1144.0	819.1	483.2	335.9	307.3	311.0	330.4	350.2	352.4
27.5°	1465.7	1363.1	1070.4	673.3	363.0	288.3	281.0	285.7	295.3	307.3	310.3
30°	1440.0	1322.1	985.8	547.3	290.9	264.5	261.6	264.1	269.6	274.7	276.2
32.5°	1414.4	1282.5	900.4	419.1	259.4	248.7	245.8	245.8	245.8	246.5	246.9
35°	1390.6	1245.1	808.9	326.4	242.9	236.3	232.3	227.9	227.1	224.6	224.6
37.5°	1377.4	1211.1	711.4	273.3	230.8	226.0	220.5	213.2	209.2	209.5	208.8
40°	1380.0	1188.7	622.8	243.2	220.9	215.8	207.3	198.9	196.4	196.4	195.6
42.5°	1408.9	1181.4	537.8	227.5	211.4	205.5	194.9	187.2	185.7	185.4	186.1
45°	1475.6	1199.4	461.6	217.2	203.3	194.5	183.9	176.9	175.5	175.5	175.1
47.5°	1605.6	1257.6	407.0	210.6	197.5	186.1	175.1	168.1	165.6	164.8	164.8
50°	1807.8	1384.0	366.3	204.8	190.1	178.4	167.0	159.0	155.0	154.6	154.2
52.5°	2088.8	1581.1	350.6	200.4	182.1	170.3	157.9	150.2	145.1	144.0	143.2
55°	2417.4	1856.2	372.2	197.1	173.6	161.2	148.4	140.3	135.5	133.3	133.0
57.5°	2798.0	2186.6	454.2	192.7	165.9	151.3	138.8	130.8	125.7	123.1	122.4
60°	3139.8	2526.2	597.5	190.1	159.4	140.7	127.8	120.5	115.8	113.2	112.8
62.5°	3515.3	2850.0	768.6	197.1	156.4	130.4	117.6	111.0	107.0	104.4	104.4
65°	3916.4	3174.2	881.8	220.5	160.8	122.4	106.6	101.1	97.4	95.6	95.2
67.5°	4186.8	3286.3	726.4	244.7	171.8	113.6	96.0	91.6	89.4	87.6	87.6
69°	4157.5	3144.6	535.9	250.9	175.1	109.2	90.1	86.8	83.9	83.2	82.4
70°	4064.8	2983.0	449.1	246.9	172.5	105.1	86.5	82.4	79.9	79.1	78.8
72.5°	3620.4	2587.0	334.5	214.7	146.9	91.2	76.6	72.9	70.7	69.6	69.6
75°	3007.9	2114.4	261.2	170.7	115.0	76.9	65.6	62.6	60.8	60.1	59.7
77.5°	1685.8	1180.7	187.6	133.7	87.2	62.3	54.9	52.4	50.6	49.8	49.8
80°	469.6	337.4	110.3	88.3	59.3	47.3	43.6	41.8	39.2	37.4	38.5
82.5°	176.9	146.2	63.0	53.1	37.7	31.5	30.4	28.9	27.8	25.3	25.3
85°	86.1	71.1	40.3	28.2	20.9	16.5	15.8	15.0	14.3	12.5	12.8
87.5°	29.7	31.5	17.6	10.3	6.2	4.0	3.3	1.8	1.8	1.8	1.8
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)