

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: P450719

Luminaire Tested: **GALN-SA1C-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450719
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-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 7101 lumens
Efficiency: N/A
Efficacy: 124.6 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

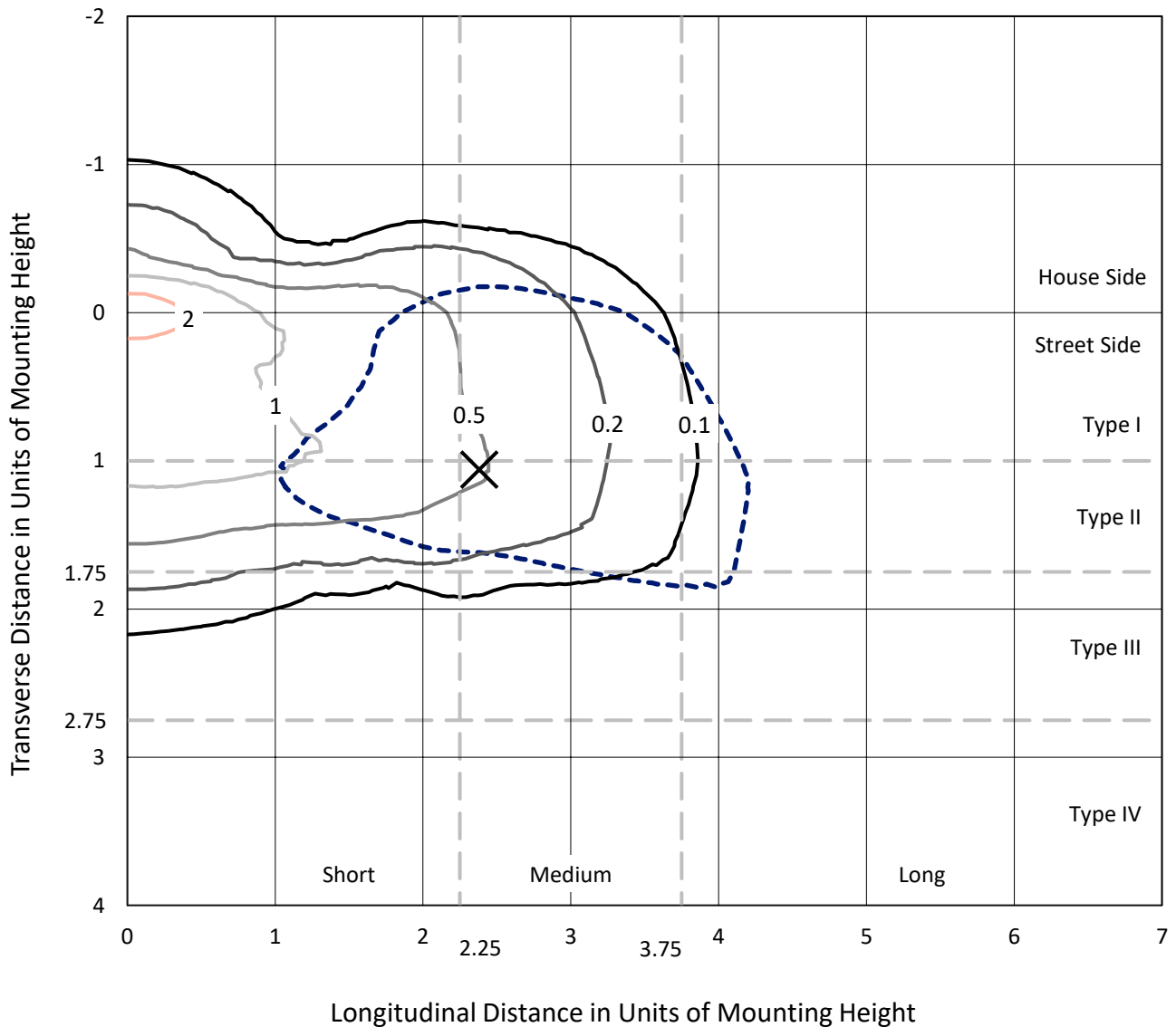
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

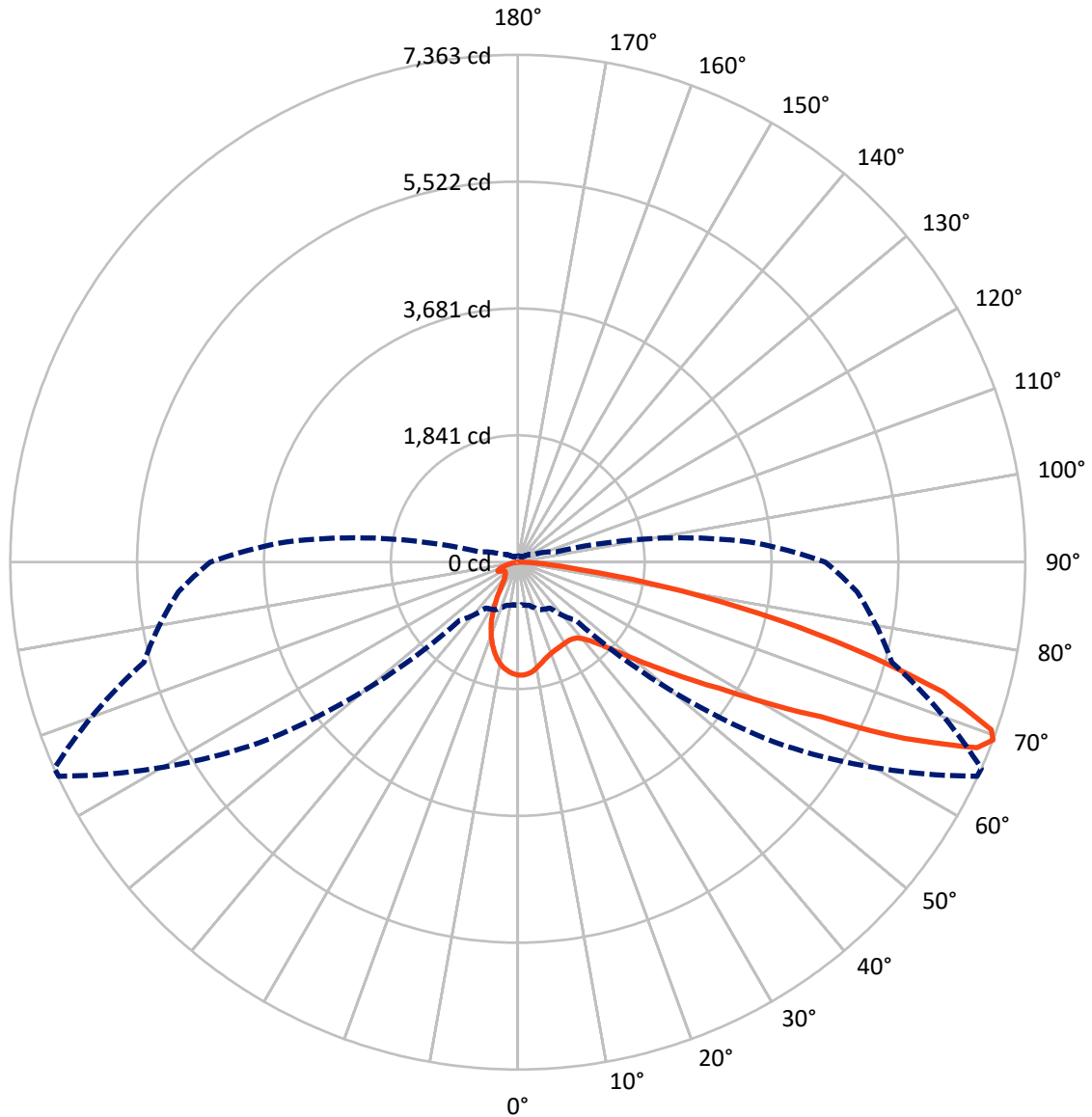
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1335.4	0.0	1335.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5765.6	0.0	5765.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	7101.0	0.0	7101.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	2.0
10°-20°	337.8	4.8
20°-30°	459.8	6.5
30°-40°	617.9	8.7
40°-50°	922.6	13.0
50°-60°	1467.6	20.7
60°-70°	1805.0	25.4
70°-80°	1174.4	16.5
80°-90°	173.4	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°	7101.0	100.0
0°-180°	7101.0	100.0



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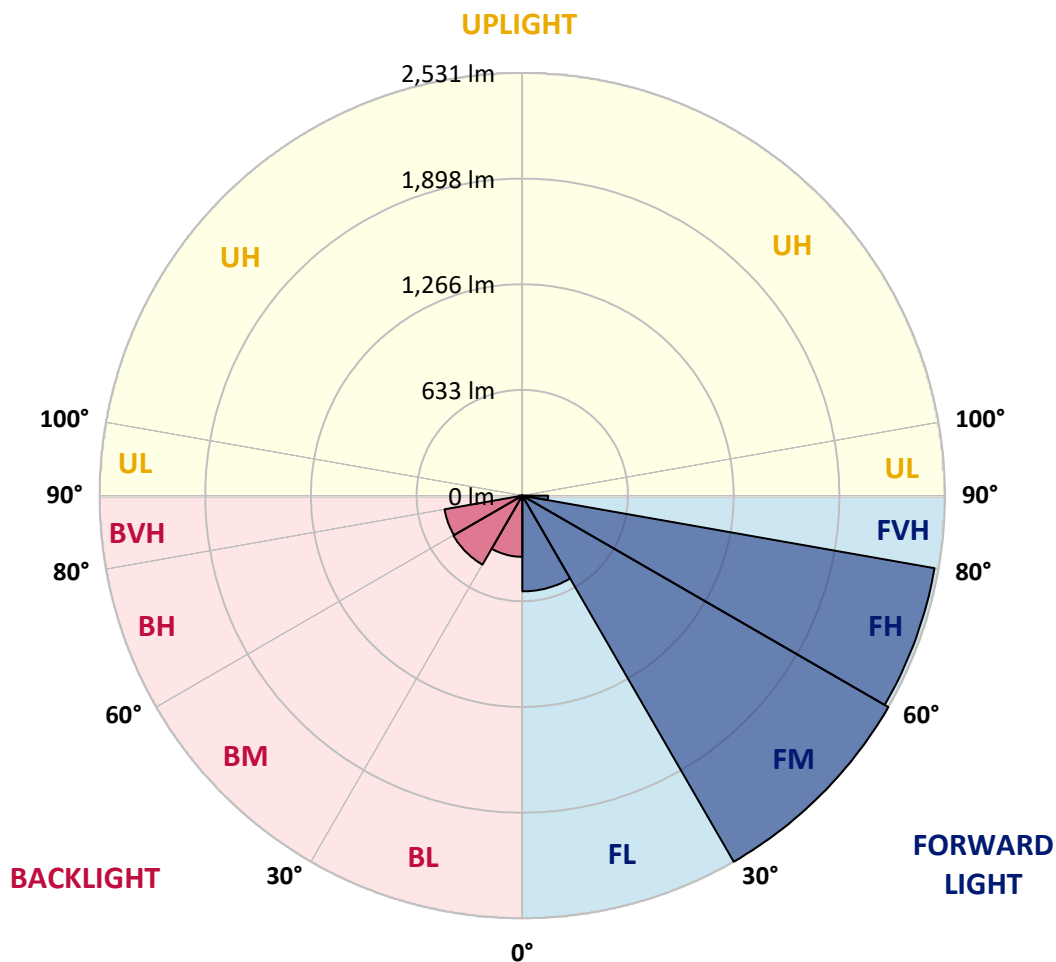
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.4	8.1			
FM (30°-60°)	2531.3	35.6			
FH (60°-80°)	2506.7	35.3			G2/5000
FVH (80°-90°)	154.2	2.2			G2/225
BL (0°-30°)	366.6	5.2	B1/500		
BM (30°-60°)	476.8	6.7	B1/1000		
BH (60°-80°)	472.8	6.7	B1/500		G1/500
BVH (80°-90°)	19.2	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°	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8
2.5°	1582.4	1588.7	1595.8	1603.6	1618.6	1626.8	1632.7	1639.4	1640.2	1643.8	1641.0
5°	1465.6	1473.1	1483.7	1498.6	1521.1	1556.1	1592.2	1621.7	1625.3	1641.8	1646.5
7.5°	1368.1	1372.4	1381.1	1405.1	1436.9	1475.8	1528.5	1588.3	1597.0	1636.3	1650.0
10°	1288.7	1293.0	1303.2	1328.0	1359.4	1408.2	1466.0	1544.7	1551.7	1619.4	1650.8
12.5°	1229.3	1233.2	1244.2	1268.6	1304.8	1350.4	1414.1	1497.5	1507.7	1597.0	1643.4
15°	1184.1	1191.5	1200.6	1220.6	1258.8	1302.8	1364.5	1454.2	1462.5	1573.4	1638.2
17.5°	1164.8	1168.3	1174.6	1193.1	1221.0	1264.3	1326.4	1420.4	1430.2	1556.8	1637.1
20°	1165.6	1169.1	1170.3	1180.5	1200.6	1237.9	1299.3	1393.6	1405.4	1542.3	1639.0
22.5°	1192.3	1192.7	1188.4	1184.8	1192.7	1223.8	1280.0	1373.6	1387.4	1536.0	1640.6
25°	1233.6	1240.7	1234.4	1217.9	1203.3	1218.3	1272.5	1362.6	1375.6	1527.0	1638.6
27.5°	1300.5	1301.6	1296.5	1274.1	1236.4	1225.3	1269.4	1354.3	1365.3	1520.3	1628.8
30°	1390.1	1386.6	1381.9	1357.1	1297.7	1252.5	1276.1	1346.9	1358.3	1510.4	1617.0
32.5°	1480.9	1492.0	1487.6	1458.5	1381.5	1305.2	1297.7	1346.1	1355.5	1503.0	1604.0
35°	1577.3	1582.4	1602.9	1587.9	1508.9	1390.5	1338.2	1358.3	1365.7	1503.4	1595.0
37.5°	1652.8	1666.6	1714.5	1727.5	1653.2	1503.4	1403.9	1392.9	1396.0	1522.6	1598.5
40°	1744.0	1767.6	1829.4	1882.4	1833.7	1650.0	1515.6	1457.0	1460.9	1569.0	1621.7
42.5°	1859.6	1876.2	1959.1	2031.1	2023.2	1843.9	1650.8	1562.0	1563.9	1661.4	1686.6
45°	1994.9	2018.5	2111.7	2219.8	2238.3	2063.3	1846.3	1720.8	1719.6	1805.0	1807.7
47.5°	2167.9	2182.5	2274.9	2392.9	2467.6	2339.0	2083.4	1948.9	1936.3	2014.2	1991.8
50°	2327.2	2350.0	2420.0	2549.0	2735.0	2661.9	2395.2	2244.6	2215.1	2287.9	2250.1
52.5°	2394.1	2418.0	2477.0	2637.1	2964.3	3079.5	2791.2	2597.4	2548.2	2604.0	2590.3
55°	2278.0	2309.1	2364.2	2558.8	3064.9	3561.2	3325.3	3005.2	2969.4	2945.4	2949.3
57.5°	1966.2	1995.7	2070.0	2284.7	2944.6	3910.8	4087.7	3529.3	3452.7	3342.2	3361.0
60°	1496.7	1515.2	1553.7	1791.6	2587.9	4001.6	4953.7	4192.0	4143.2	3737.4	3750.7
62.5°	1062.9	1083.8	1110.5	1229.3	1894.6	3745.6	5631.6	5117.3	4943.0	4146.7	4133.8
65°	863.2	849.0	881.3	936.7	1111.7	2902.9	5784.2	6401.6	6161.7	4685.9	4505.8
67.5°	709.8	694.9	726.7	825.4	845.5	1685.0	5234.4	7235.3	7187.3	5272.2	4883.7
69°	628.4	620.5	648.5	760.9	811.7	1196.6	4560.0	7351.3	7362.7	5617.9	4941.9
70°	566.3	569.4	596.5	728.3	796.3	986.6	3897.4	7191.2	7287.9	5790.5	4879.0
72.5°	416.8	423.5	461.3	603.2	781.8	837.2	2319.3	6281.3	6452.3	5800.7	4463.3
75°	291.4	288.2	321.7	454.2	738.5	829.7	1362.2	4857.7	5051.6	5013.8	3750.3
77.5°	190.7	195.8	222.6	320.9	621.3	823.4	887.9	3446.4	3572.2	3353.2	2218.3
80°	134.5	134.1	149.0	219.0	460.9	791.2	727.1	2172.3	2140.4	1317.8	657.9
82.5°	77.1	82.6	99.9	154.2	308.3	696.4	668.9	1038.9	948.5	375.5	222.2
85°	42.9	44.8	59.4	93.2	180.1	524.6	584.0	472.7	445.9	156.9	95.6
87.5°	13.8	14.9	24.8	47.2	81.8	247.7	330.7	218.2	201.3	56.6	38.5
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°	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8
2.5°	1642.2	1646.9	1634.3	1622.1	1611.1	1595.8	1582.0	1570.6	1562.7	1561.6	1557.6
5°	1647.7	1648.1	1624.1	1591.8	1560.4	1525.8	1490.0	1464.4	1440.4	1427.1	1420.4
7.5°	1651.6	1648.1	1604.8	1552.5	1492.0	1429.0	1366.1	1315.8	1276.9	1261.5	1267.4
10°	1650.0	1639.0	1575.7	1492.0	1403.9	1309.9	1219.4	1148.7	1083.8	1050.3	1051.1
12.5°	1641.4	1623.3	1532.5	1423.9	1294.6	1168.7	1030.3	934.7	859.6	815.2	801.4
15°	1633.9	1602.5	1481.7	1331.5	1170.7	991.0	822.3	704.3	641.4	606.4	606.0
17.5°	1626.1	1582.4	1426.3	1233.6	1028.3	797.1	620.1	530.1	500.6	504.1	498.2
20°	1617.8	1558.8	1368.5	1124.7	854.9	594.6	464.4	427.8	436.1	452.2	454.6
22.5°	1608.4	1533.6	1306.3	1004.7	672.4	447.5	376.7	371.2	392.5	417.6	421.2
25°	1593.8	1502.2	1228.1	879.3	518.7	360.6	329.9	333.9	354.7	375.9	378.3
27.5°	1573.4	1463.3	1149.1	722.8	389.7	309.5	301.6	306.7	317.0	329.9	333.1
30°	1545.8	1419.2	1058.2	587.5	312.2	283.9	280.8	283.5	289.4	294.9	296.5
32.5°	1518.3	1376.7	966.6	449.9	278.4	267.0	263.9	263.9	263.9	264.7	265.0
35°	1492.7	1336.6	868.3	350.4	260.7	253.6	249.3	244.6	243.8	241.1	241.1
37.5°	1478.6	1300.1	763.7	293.4	247.7	242.6	236.7	228.9	224.5	224.9	224.1
40°	1481.3	1276.1	668.5	261.1	237.1	231.6	222.6	213.5	210.8	210.8	210.0
42.5°	1512.4	1268.2	577.3	244.2	226.9	220.6	209.2	200.9	199.4	199.0	199.8
45°	1584.0	1287.5	495.5	233.2	218.2	208.8	197.4	189.9	188.4	188.4	188.0
47.5°	1723.6	1350.0	436.9	226.1	212.0	199.8	188.0	180.5	177.7	177.0	177.0
50°	1940.6	1485.7	393.2	219.8	204.1	191.5	179.3	170.7	166.3	165.9	165.6
52.5°	2242.3	1697.2	376.3	215.1	195.4	182.9	169.5	161.2	155.7	154.5	153.8
55°	2595.0	1992.6	399.5	211.6	186.4	173.0	159.3	150.6	145.5	143.1	142.7
57.5°	3003.6	2347.3	487.6	206.8	178.1	162.4	149.0	140.4	134.9	132.1	131.3
60°	3370.5	2711.8	641.4	204.1	171.1	151.0	137.2	129.4	124.3	121.5	121.1
62.5°	3773.5	3059.4	825.0	211.6	167.9	140.0	126.2	119.2	114.8	112.1	112.1
65°	4204.1	3407.4	946.5	236.7	172.6	131.3	114.4	108.5	104.6	102.6	102.2
67.5°	4494.4	3527.8	779.8	262.7	184.4	121.9	103.0	98.3	96.0	94.0	94.0
69°	4462.9	3375.6	575.3	269.4	188.0	117.2	96.7	93.2	90.1	89.3	88.5
70°	4363.4	3202.2	482.1	265.0	185.2	112.9	92.8	88.5	85.7	84.9	84.5
72.5°	3886.4	2777.1	359.0	230.4	157.7	97.9	82.2	78.3	75.9	74.7	74.7
75°	3228.9	2269.8	280.4	183.3	123.5	82.6	70.4	67.2	65.3	64.5	64.1
77.5°	1809.7	1267.4	201.3	143.5	93.6	66.9	59.0	56.2	54.3	53.5	53.5
80°	504.1	362.2	118.4	94.8	63.7	50.7	46.8	44.8	42.1	40.1	41.3
82.5°	189.9	156.9	67.6	57.0	40.5	33.8	32.6	31.1	29.9	27.1	27.1
85°	92.4	76.3	43.3	30.3	22.4	17.7	16.9	16.1	15.3	13.4	13.8
87.5°	31.9	33.8	18.9	11.0	6.7	4.3	3.5	2.0	2.0	2.0	2.0
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)