

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: P647221

Luminaire Tested: **GALN-SA1D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6074.5 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

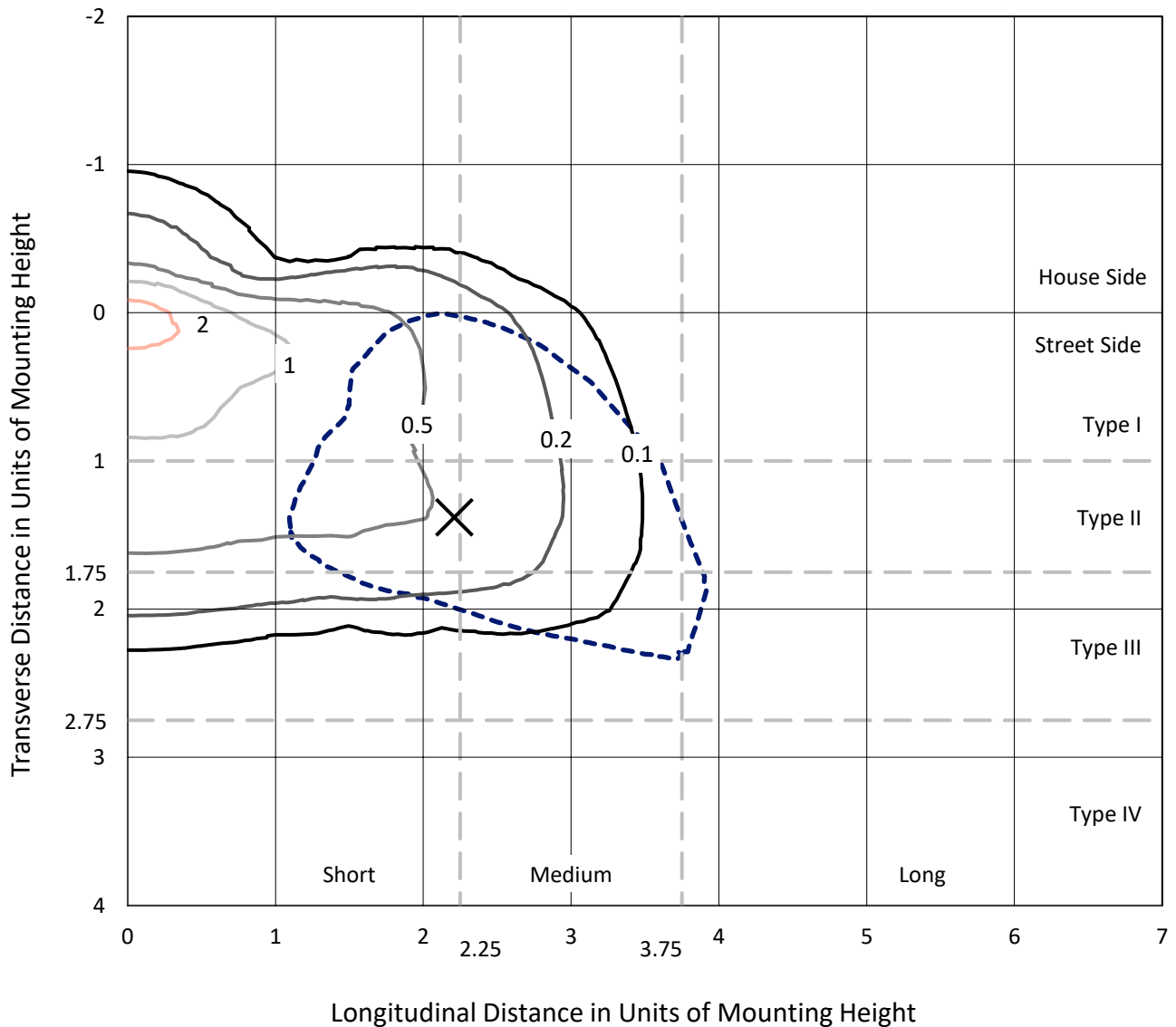
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

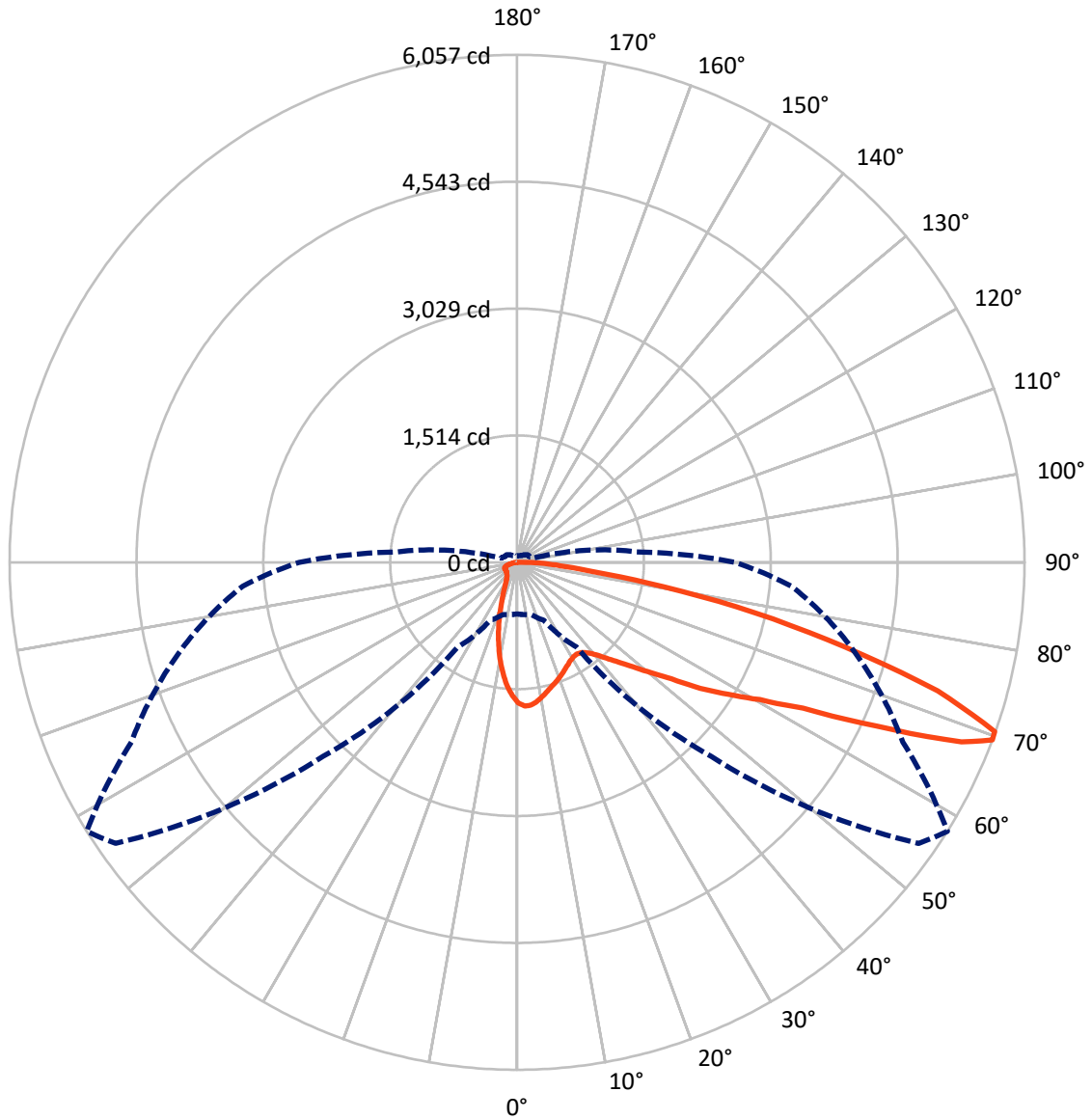
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	890.2	0.0	890.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5184.3	0.0	5184.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	6074.5	0.0	6074.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	2.3
10°-20°	313.0	5.2
20°-30°	404.4	6.7
30°-40°	525.3	8.6
40°-50°	763.7	12.6
50°-60°	1218.6	20.1
60°-70°	1627.9	26.8
70°-80°	938.4	15.4
80°-90°	140.6	2.3
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°	6074.5	100.0
0°-180°	6074.5	100.0

Coefficient of Utilization



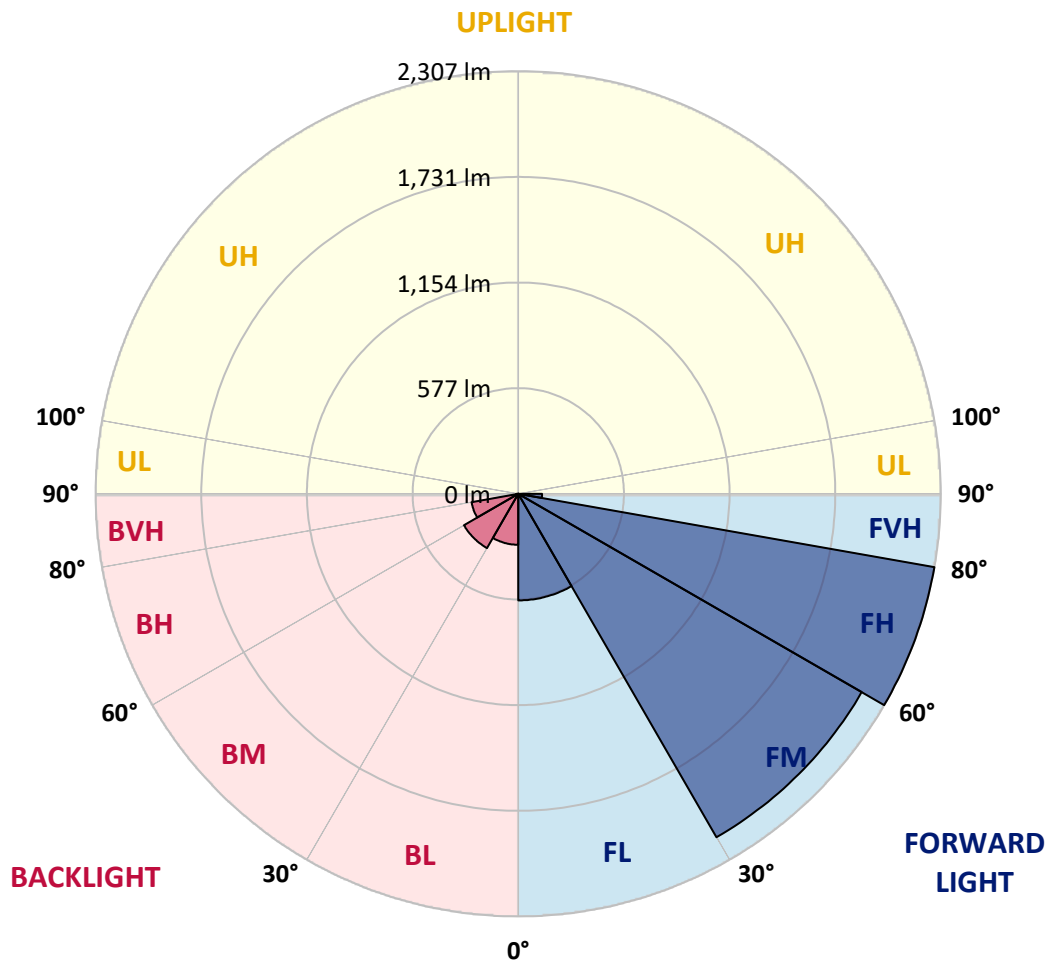
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.8	9.6			
FM (30°-60°)	2165.3	35.6			
FH (60°-80°)	2307.5	38.0			G2/5000
FVH (80°-90°)	129.8	2.1			G2/225
BL (0°-30°)	278.2	4.6	B1/500		
BM (30°-60°)	342.4	5.6	B1/1000		
BH (60°-80°)	258.9	4.3	B1/500		G1/500
BVH (80°-90°)	10.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7
2.5°	1741.0	1745.7	1744.4	1742.6	1740.0	1732.5	1720.3	1718.3	1710.5	1693.9	1673.2
5°	1714.2	1718.3	1718.6	1721.0	1724.4	1723.0	1714.2	1713.2	1701.7	1679.3	1644.8
7.5°	1622.4	1627.9	1639.7	1652.9	1664.7	1675.9	1678.7	1680.3	1673.2	1647.5	1601.4
10°	1519.1	1524.5	1529.9	1549.6	1578.7	1606.5	1629.5	1632.6	1634.3	1610.6	1554.3
12.5°	1404.5	1415.7	1427.3	1456.4	1495.4	1539.1	1579.7	1586.1	1597.6	1579.7	1513.6
15°	1307.4	1318.9	1335.5	1361.6	1408.6	1471.6	1528.9	1539.4	1562.1	1552.9	1475.7
17.5°	1240.0	1244.0	1255.5	1285.3	1336.1	1402.5	1479.1	1500.1	1536.3	1534.0	1443.2
20°	1186.7	1191.8	1198.9	1217.3	1270.1	1340.2	1432.7	1459.8	1508.9	1517.1	1411.0
22.5°	1164.4	1168.1	1167.1	1176.9	1212.8	1283.3	1385.6	1417.8	1484.5	1505.6	1381.2
25°	1165.7	1169.1	1164.0	1161.7	1183.0	1233.1	1336.5	1377.5	1464.8	1497.7	1354.1
27.5°	1188.4	1190.8	1181.3	1171.8	1173.6	1202.0	1295.8	1341.2	1448.2	1501.1	1331.4
30°	1218.9	1223.4	1217.3	1205.7	1193.1	1194.5	1269.7	1314.4	1440.5	1513.0	1320.5
32.5°	1258.2	1262.3	1259.5	1250.5	1234.2	1216.2	1263.3	1304.6	1441.2	1537.0	1318.2
35°	1299.5	1307.7	1312.1	1311.4	1298.2	1267.1	1288.7	1323.0	1457.4	1577.4	1332.0
37.5°	1346.3	1353.1	1372.1	1384.3	1372.1	1335.8	1346.0	1369.7	1493.3	1635.6	1362.6
40°	1391.7	1401.9	1429.6	1467.6	1462.8	1431.0	1433.4	1448.9	1556.7	1722.4	1422.2
42.5°	1439.2	1451.3	1499.8	1556.0	1567.2	1542.4	1548.9	1562.8	1646.8	1842.6	1524.5
45°	1500.1	1514.6	1574.3	1644.5	1688.5	1673.2	1691.5	1698.3	1767.4	1999.2	1659.3
47.5°	1578.7	1595.7	1669.1	1756.6	1818.9	1832.8	1864.6	1860.6	1916.8	2184.4	1834.2
50°	1711.2	1720.6	1790.1	1879.2	1964.9	2027.6	2062.1	2068.6	2102.1	2364.7	2029.6
52.5°	1868.7	1877.2	1927.3	2005.2	2112.6	2245.4	2330.8	2309.8	2317.9	2584.2	2258.3
55°	2045.9	2060.1	2091.9	2143.8	2283.0	2478.5	2649.9	2655.0	2564.9	2794.2	2477.5
57.5°	2183.1	2207.1	2261.7	2335.5	2512.0	2737.7	2968.0	2971.4	2856.2	3018.5	2719.4
60°	2113.9	2142.4	2267.1	2447.0	2812.5	3189.9	3348.1	3328.8	3139.8	3274.0	3014.5
62.5°	1815.9	1820.9	2002.2	2283.4	2905.0	3795.0	3913.9	3832.2	3518.2	3597.8	3314.3
65°	1175.2	1208.4	1352.1	1746.1	2601.1	4130.7	4905.2	4716.5	4048.7	3965.3	3565.3
67.5°	741.9	733.4	793.1	997.0	1789.1	3835.0	5751.1	5721.3	4742.6	4197.4	3505.3
69°	615.2	624.7	645.0	764.3	1231.1	3274.3	5851.0	6057.0	5078.9	4179.2	3287.5
70°	558.0	562.4	583.7	677.5	949.9	2742.4	5687.1	6047.8	5211.1	4102.6	3129.7
72.5°	442.8	442.5	479.0	563.8	710.1	1565.5	4669.7	5250.7	5063.3	3746.2	2585.9
75°	336.4	341.9	382.1	477.0	654.2	855.4	3258.7	4043.6	4044.0	2958.9	1613.6
77.5°	242.6	245.9	293.1	400.4	616.2	693.5	2170.6	2900.2	2726.5	1355.8	507.1
80°	158.9	160.9	196.8	317.1	555.6	654.2	1287.0	1775.2	1286.0	359.8	167.7
82.5°	87.1	97.2	120.3	205.3	445.8	604.4	782.2	898.4	482.4	160.3	87.4
85°	43.7	46.4	67.7	120.0	291.4	500.0	544.7	515.3	249.0	79.6	45.4
87.5°	12.8	16.3	28.1	46.4	118.2	260.5	303.2	272.0	95.8	28.8	9.5
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°	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7	1678.7
2.5°	1664.7	1658.6	1631.5	1607.2	1584.8	1561.1	1541.1	1523.5	1525.2	1525.5	1507.6
5°	1626.8	1612.9	1561.5	1513.3	1472.7	1421.1	1377.1	1348.6	1334.5	1315.4	1322.3
7.5°	1575.3	1548.5	1477.1	1397.1	1322.3	1255.5	1183.0	1133.2	1101.4	1070.5	1074.6
10°	1522.2	1479.1	1375.1	1269.4	1172.5	1065.8	973.3	894.0	835.1	813.1	798.5
12.5°	1467.6	1411.0	1278.9	1138.3	1004.5	876.7	745.7	660.6	595.5	561.0	565.4
15°	1417.8	1349.0	1178.6	1007.2	833.4	681.3	550.5	469.6	424.2	414.7	420.1
17.5°	1371.7	1281.6	1084.8	879.8	676.9	510.9	413.7	367.9	349.6	344.5	344.2
20°	1324.3	1224.4	979.4	743.6	527.5	396.0	339.4	318.1	314.7	316.7	317.1
22.5°	1276.2	1153.5	871.0	608.5	420.1	323.8	296.8	291.0	293.7	298.5	299.1
25°	1231.8	1091.2	766.6	489.8	335.4	284.5	271.4	271.4	277.5	284.5	284.9
27.5°	1195.2	1030.9	662.7	388.9	280.9	256.1	251.7	254.1	262.5	267.9	268.3
30°	1165.0	974.7	564.4	311.7	247.0	233.4	232.4	236.5	242.6	247.7	248.0
32.5°	1142.3	925.2	472.6	261.9	223.6	216.1	215.8	218.8	222.2	223.6	225.0
35°	1133.5	884.2	388.6	230.4	208.0	203.3	203.3	203.0	204.3	205.0	205.6
37.5°	1140.7	852.7	323.5	210.1	196.5	193.1	191.1	189.0	188.4	188.4	188.7
40°	1170.8	836.1	275.1	196.8	188.4	183.3	179.5	177.2	174.8	175.5	176.2
42.5°	1234.9	839.1	242.3	188.0	181.3	174.1	168.7	166.0	164.3	166.3	166.0
45°	1336.8	869.7	221.2	181.9	174.1	165.0	159.9	157.2	157.2	160.3	161.2
47.5°	1479.4	927.9	210.1	177.2	168.7	157.9	152.8	150.7	151.4	156.5	156.8
50°	1653.5	1029.2	208.0	174.8	166.0	152.8	147.0	145.0	146.7	152.1	152.8
52.5°	1845.7	1159.6	217.8	175.2	163.6	149.7	142.3	139.2	140.9	145.3	146.7
55°	2073.3	1323.0	243.3	176.5	160.3	148.1	138.9	132.1	134.1	137.2	137.6
57.5°	2305.7	1528.9	288.0	176.9	157.5	145.0	133.1	124.3	124.3	126.4	127.4
60°	2589.6	1753.1	346.9	177.2	157.9	140.6	125.4	115.5	114.2	115.2	115.5
62.5°	2871.5	1940.8	356.7	176.2	161.2	136.2	116.9	106.7	104.4	104.0	103.4
65°	2995.8	1906.0	292.4	171.4	165.0	133.5	110.1	98.3	94.2	92.9	92.9
67.5°	2793.2	1612.3	219.9	165.0	162.6	130.8	103.7	91.1	86.4	83.7	83.7
69°	2602.8	1434.1	197.5	160.6	156.5	126.4	99.6	87.4	81.7	78.6	77.6
70°	2455.8	1311.4	188.0	156.8	150.7	121.3	96.5	84.7	78.2	74.9	74.2
72.5°	1959.8	1028.9	164.7	142.7	128.4	101.9	85.7	76.2	70.2	66.4	65.4
75°	1129.5	557.7	136.6	124.0	103.4	79.2	72.5	66.4	61.6	58.3	57.2
77.5°	347.6	215.5	98.9	97.9	75.9	61.3	57.9	55.6	52.1	48.5	47.8
80°	146.3	109.8	67.1	66.1	50.5	42.7	41.7	41.3	40.0	37.0	35.9
82.5°	80.3	62.0	46.7	40.6	30.5	24.7	25.8	26.1	25.1	22.0	20.0
85°	39.3	33.9	22.7	18.3	13.9	8.8	8.5	10.2	9.5	6.8	7.4
87.5°	7.8	9.5	6.1	2.7	1.3	0.0	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)