

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: P458635

Luminaire Tested: **GALN-SA2A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7011 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

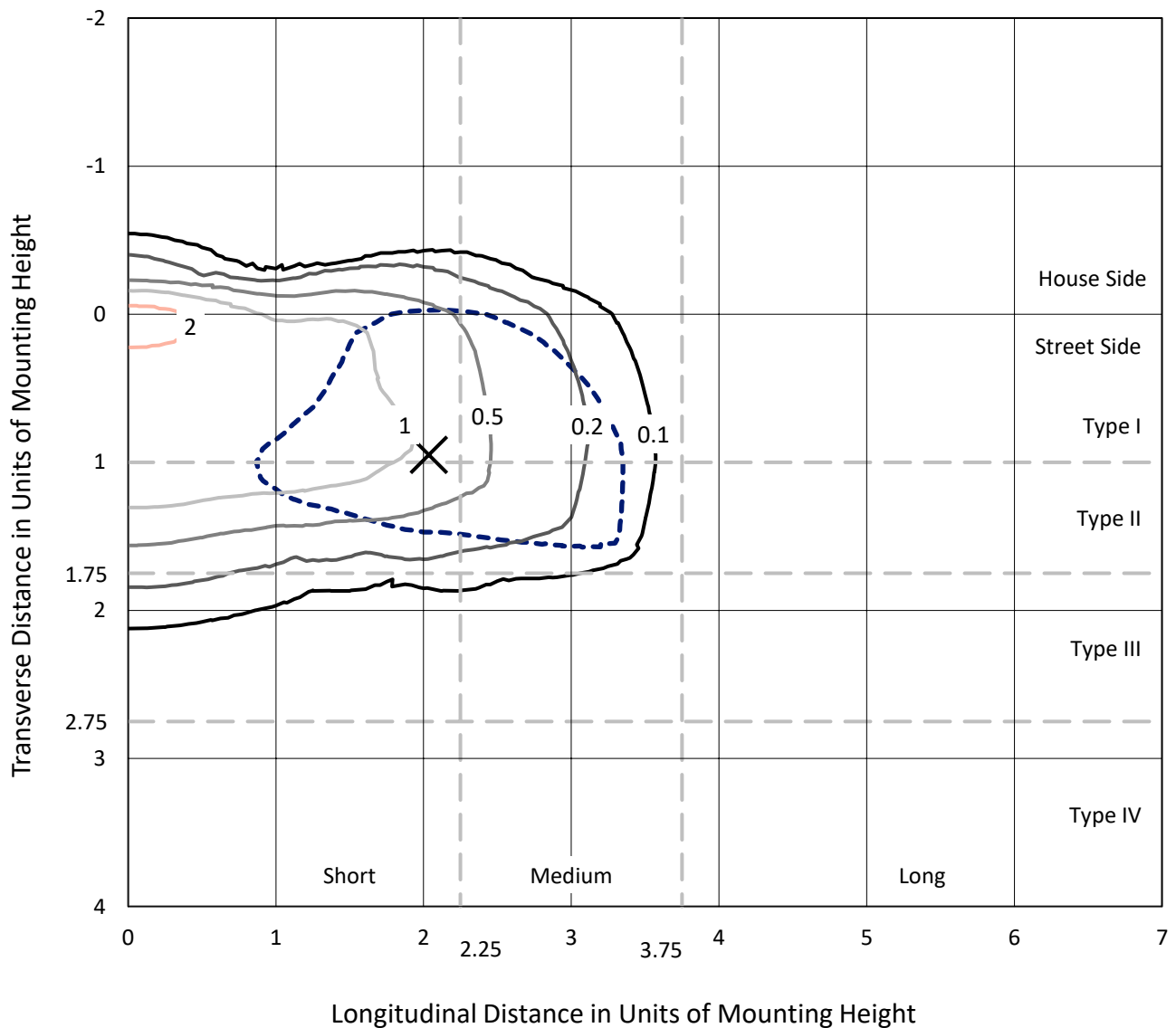
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

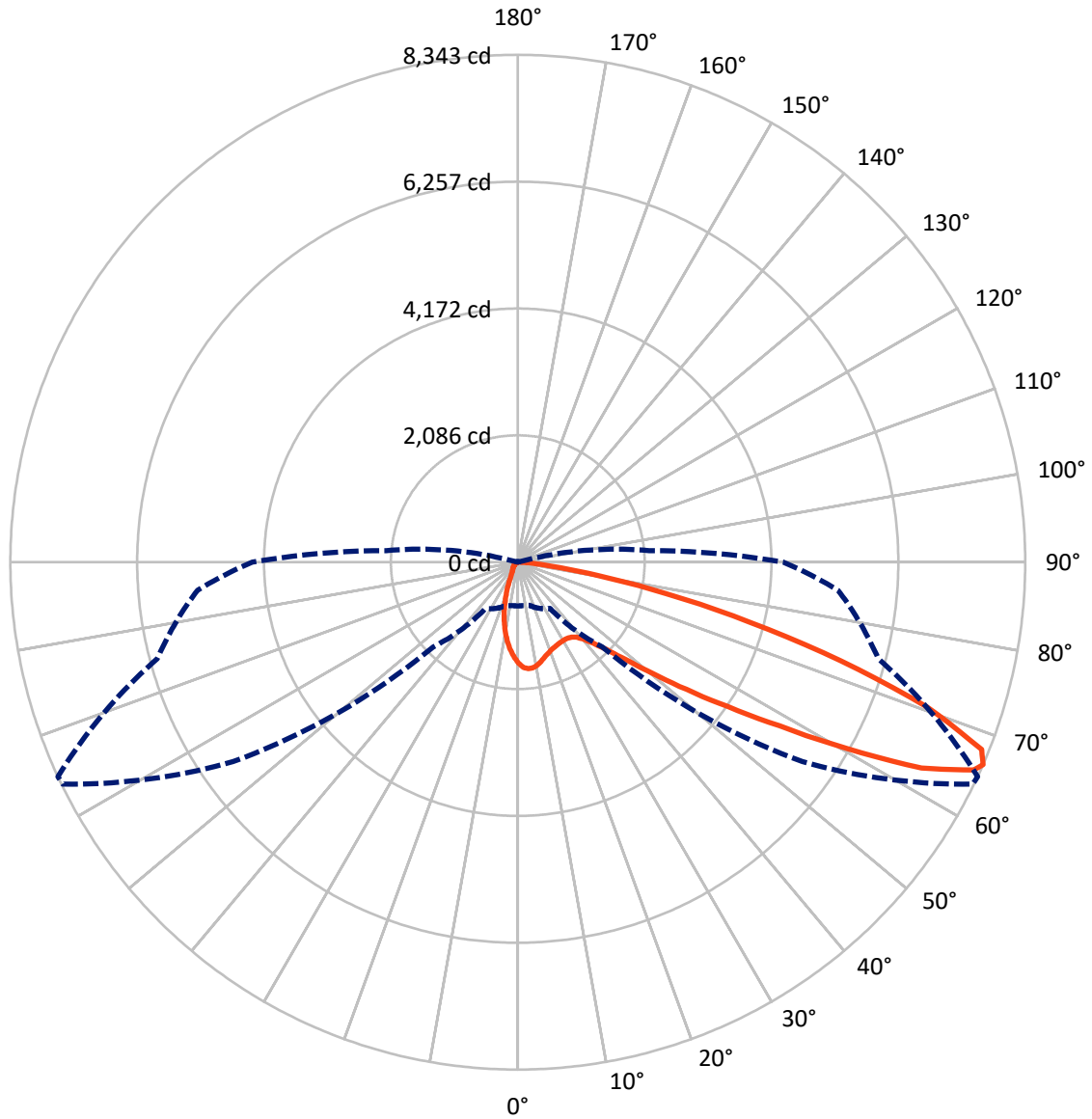
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	725.0	0.0	725.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6286.0	0.0	6286.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	7011.0	0.0	7011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.9
10°-20°	296.3	4.2
20°-30°	424.4	6.1
30°-40°	619.9	8.8
40°-50°	1039.4	14.8
50°-60°	1734.6	24.7
60°-70°	1841.2	26.3
70°-80°	833.9	11.9
80°-90°	85.3	1.2
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°	7011.0	100.0
0°-180°	7011.0	100.0

Coefficient of Utilization



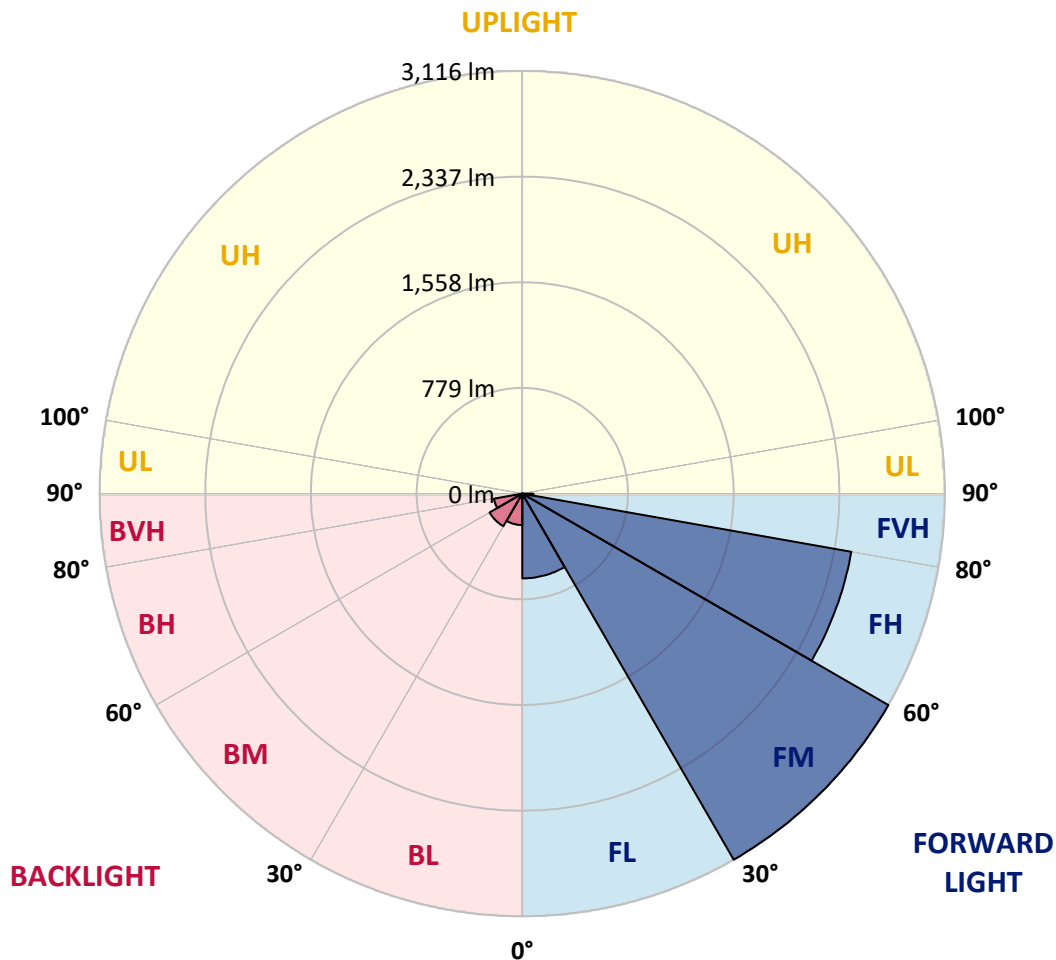
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.7	8.9			
FM (30°-60°)	3115.8	44.4			
FH (60°-80°)	2462.8	35.1			G2/5000
FVH (80°-90°)	82.6	1.2			G1/100
BL (0°-30°)	231.9	3.3	B1/500		
BM (30°-60°)	278.1	4.0	B1/1000		
BH (60°-80°)	212.3	3.0	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6
2.5°	1752.1	1754.0	1756.3	1759.6	1762.0	1754.9	1745.0	1733.6	1731.2	1707.1	1677.7
5°	1658.3	1661.1	1682.0	1693.3	1718.9	1742.1	1756.8	1758.7	1757.7	1735.0	1688.1
7.5°	1524.8	1532.8	1553.2	1573.1	1620.9	1664.9	1717.0	1753.5	1755.9	1749.7	1691.5
10°	1416.3	1421.5	1432.0	1471.3	1511.0	1578.3	1651.2	1719.9	1725.5	1750.2	1688.6
12.5°	1331.6	1339.1	1351.9	1382.2	1430.1	1493.5	1576.4	1668.7	1680.6	1741.2	1680.6
15°	1272.4	1276.2	1289.0	1318.8	1365.2	1423.9	1507.7	1615.2	1625.6	1729.3	1679.1
17.5°	1244.4	1248.7	1257.7	1281.4	1319.7	1374.2	1456.1	1572.1	1585.4	1721.8	1684.3
20°	1252.0	1255.8	1256.3	1268.6	1294.6	1340.6	1418.2	1531.9	1548.9	1717.0	1692.9
22.5°	1295.1	1295.6	1289.9	1284.2	1293.2	1326.4	1395.0	1506.3	1523.8	1716.1	1702.8
25°	1359.5	1360.9	1351.5	1331.6	1313.6	1330.6	1389.8	1489.7	1505.4	1713.7	1709.0
27.5°	1448.5	1448.1	1445.2	1412.1	1360.9	1349.6	1394.1	1480.7	1494.0	1707.1	1711.3
30°	1573.1	1569.3	1563.1	1525.7	1447.6	1395.5	1412.1	1475.0	1487.4	1697.6	1705.2
32.5°	1695.7	1709.9	1709.0	1673.5	1575.9	1477.4	1449.5	1482.6	1491.6	1691.5	1696.2
35°	1838.7	1838.2	1874.7	1861.4	1747.3	1582.1	1513.4	1507.7	1514.8	1695.7	1691.9
37.5°	1971.3	1983.6	2040.4	2054.2	1950.0	1729.8	1603.8	1561.7	1564.1	1724.6	1702.3
40°	2136.6	2160.2	2245.0	2290.9	2199.1	1949.1	1737.4	1660.7	1661.1	1795.6	1741.6
42.5°	2349.7	2387.1	2466.1	2542.9	2493.6	2208.5	1937.7	1817.4	1816.5	1920.6	1831.6
45°	2608.7	2634.7	2724.7	2846.4	2815.1	2570.8	2229.4	2060.3	2048.0	2125.7	1991.2
47.5°	2832.2	2867.7	2959.1	3097.8	3239.9	3013.1	2577.9	2394.2	2386.1	2451.9	2264.9
50°	2929.7	2961.0	3057.1	3251.7	3596.0	3593.6	3096.9	2881.4	2867.7	2903.2	2688.2
52.5°	2822.7	2852.1	2949.1	3191.6	3763.6	4301.1	3848.9	3492.8	3476.2	3430.7	3194.0
55°	2456.2	2480.4	2623.8	2902.3	3699.2	4772.7	4884.9	4248.0	4183.6	4007.0	3766.5
57.5°	1955.7	1943.4	2032.4	2355.8	3321.3	4930.9	5948.5	5189.0	5073.9	4505.2	4250.9
60°	1355.2	1393.1	1429.1	1642.2	2497.4	4656.7	6610.0	6371.8	6220.3	4995.3	4714.9
62.5°	996.3	1021.4	1045.1	1143.6	1570.2	3718.2	6727.0	7586.9	7452.4	5515.7	5157.7
65°	788.0	789.8	799.3	896.4	1034.7	2417.8	6164.9	8272.1	8237.5	6016.7	5337.2
66°	717.9	718.3	733.0	837.2	928.6	1968.9	5714.6	8324.2	8343.1	6137.0	5284.6
67.5°	627.4	625.5	646.8	752.4	845.7	1419.6	4908.6	8113.0	8225.2	6229.3	5095.7
70°	486.3	483.9	510.0	631.2	779.0	947.1	3262.6	6966.1	7147.0	6040.4	4508.5
72.5°	323.9	325.8	370.3	498.2	743.4	833.9	1962.8	5299.3	5555.0	4988.2	3546.7
75°	188.9	192.3	242.9	370.3	645.4	795.1	1110.9	3778.8	3942.1	3444.5	2209.5
77.5°	99.0	100.4	135.9	244.3	494.8	738.2	740.1	2414.1	2490.8	1673.9	874.6
80°	52.6	51.1	72.9	147.3	340.5	648.3	600.4	1278.1	1328.7	497.2	221.1
82.5°	19.9	21.8	38.8	96.6	201.3	465.5	517.1	564.9	547.4	109.4	92.8
85°	3.8	4.7	16.6	57.3	101.3	194.6	381.2	277.0	256.7	41.2	53.5
87.5°	0.5	0.9	4.7	13.7	14.7	65.8	112.7	76.7	66.3	15.2	22.3
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°	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6	1662.6
2.5°	1663.5	1650.7	1608.1	1566.0	1522.9	1484.0	1457.5	1414.4	1403.5	1387.9	1378.9
5°	1660.2	1630.4	1548.4	1458.9	1375.6	1285.6	1217.0	1150.7	1115.2	1097.2	1090.5
7.5°	1650.7	1603.4	1475.5	1335.4	1201.8	1067.3	950.4	861.4	804.1	764.8	738.2
10°	1631.8	1566.4	1390.8	1198.0	996.3	818.7	670.5	557.8	470.7	443.2	444.2
12.5°	1612.4	1525.2	1296.1	1045.6	795.5	571.6	414.3	325.3	283.6	269.9	267.1
15°	1594.4	1485.9	1203.2	897.8	592.4	370.3	267.1	235.8	224.5	222.1	221.6
17.5°	1584.9	1449.5	1104.3	728.8	413.4	251.4	214.0	205.5	202.2	199.8	198.9
20°	1576.9	1417.8	1009.6	570.6	282.7	206.0	191.8	183.7	178.0	175.7	174.3
22.5°	1571.2	1385.1	911.5	441.8	216.4	182.8	170.0	159.6	151.5	148.7	146.8
25°	1562.7	1349.1	812.6	322.9	182.3	162.4	147.7	135.4	125.0	119.8	118.9
27.5°	1550.3	1308.4	704.1	239.1	162.9	144.4	126.4	111.3	100.9	95.2	95.7
30°	1530.5	1265.7	595.7	189.9	147.3	126.0	106.5	91.9	81.9	77.7	77.2
32.5°	1506.8	1214.1	496.3	162.9	133.1	109.4	89.0	76.2	68.7	65.3	64.9
35°	1484.5	1162.0	394.9	146.3	118.4	94.2	74.8	63.9	58.2	55.4	55.9
37.5°	1472.2	1115.6	307.8	133.1	106.5	81.0	64.4	54.9	49.7	47.4	46.9
40°	1480.3	1077.8	244.8	121.2	93.3	69.6	55.4	47.4	42.1	38.8	38.8
42.5°	1518.1	1061.2	197.5	109.9	81.0	60.1	48.3	40.7	35.0	31.7	32.2
45°	1633.7	1078.7	165.3	99.4	69.6	52.1	41.7	33.6	28.4	26.0	25.6
47.5°	1825.5	1144.5	143.0	88.6	59.7	44.5	35.0	27.9	22.7	20.8	20.4
50°	2160.7	1280.4	126.4	77.7	50.7	37.9	28.9	22.3	18.0	16.1	16.1
52.5°	2621.9	1576.9	114.6	65.3	42.6	32.2	23.7	18.0	14.2	12.8	12.3
55°	3104.0	1889.4	108.4	54.9	35.5	26.5	18.9	14.2	10.9	9.5	9.0
57.5°	3567.6	2134.7	101.3	44.5	28.4	20.4	14.7	10.9	7.6	6.6	6.2
60°	4012.2	2333.1	86.2	35.5	22.3	14.7	10.9	7.6	5.2	4.3	4.3
62.5°	4410.0	2448.6	67.7	28.4	17.0	10.4	7.1	5.7	3.8	2.8	2.8
65°	4456.4	2298.5	51.1	21.8	12.3	6.6	4.3	4.3	2.8	1.9	1.9
66°	4363.1	2171.1	45.0	19.9	10.9	5.7	3.8	3.3	2.4	1.4	1.4
67.5°	4154.8	1953.8	38.8	17.0	9.0	4.3	2.8	2.8	1.9	0.9	0.9
70°	3589.8	1595.8	30.8	12.8	6.6	3.3	1.9	1.9	1.4	0.9	0.9
72.5°	2736.1	1191.4	25.1	9.5	4.7	2.4	1.4	1.4	1.4	0.9	0.9
75°	1650.3	641.6	19.4	7.1	4.3	1.9	0.9	1.4	1.9	1.4	0.9
77.5°	608.0	218.3	15.2	5.7	3.3	1.9	0.9	0.9	1.9	1.4	1.4
80°	149.2	56.8	10.9	4.7	3.3	1.9	0.9	0.9	1.9	1.9	1.9
82.5°	69.1	24.2	7.6	4.3	3.3	1.9	0.9	0.9	1.4	1.9	1.9
85°	39.8	11.4	6.2	4.7	3.3	1.9	0.9	0.9	1.4	1.9	1.9
87.5°	16.1	5.7	5.7	4.7	3.8	2.4	0.9	0.9	0.9	1.4	1.4
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)