

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: P451153

Luminaire Tested: **GALN-SA2A-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451153
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-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 6855 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

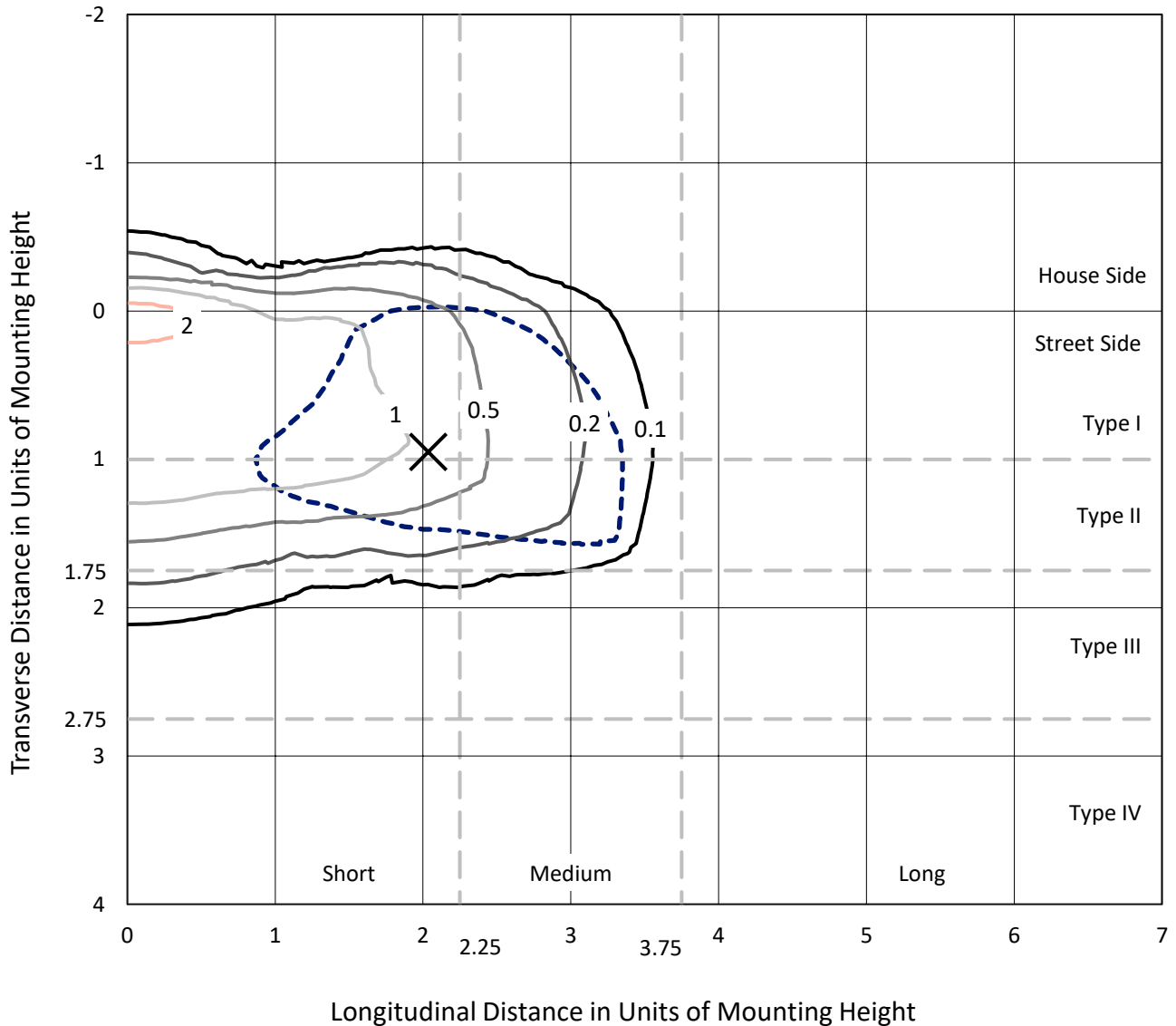
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

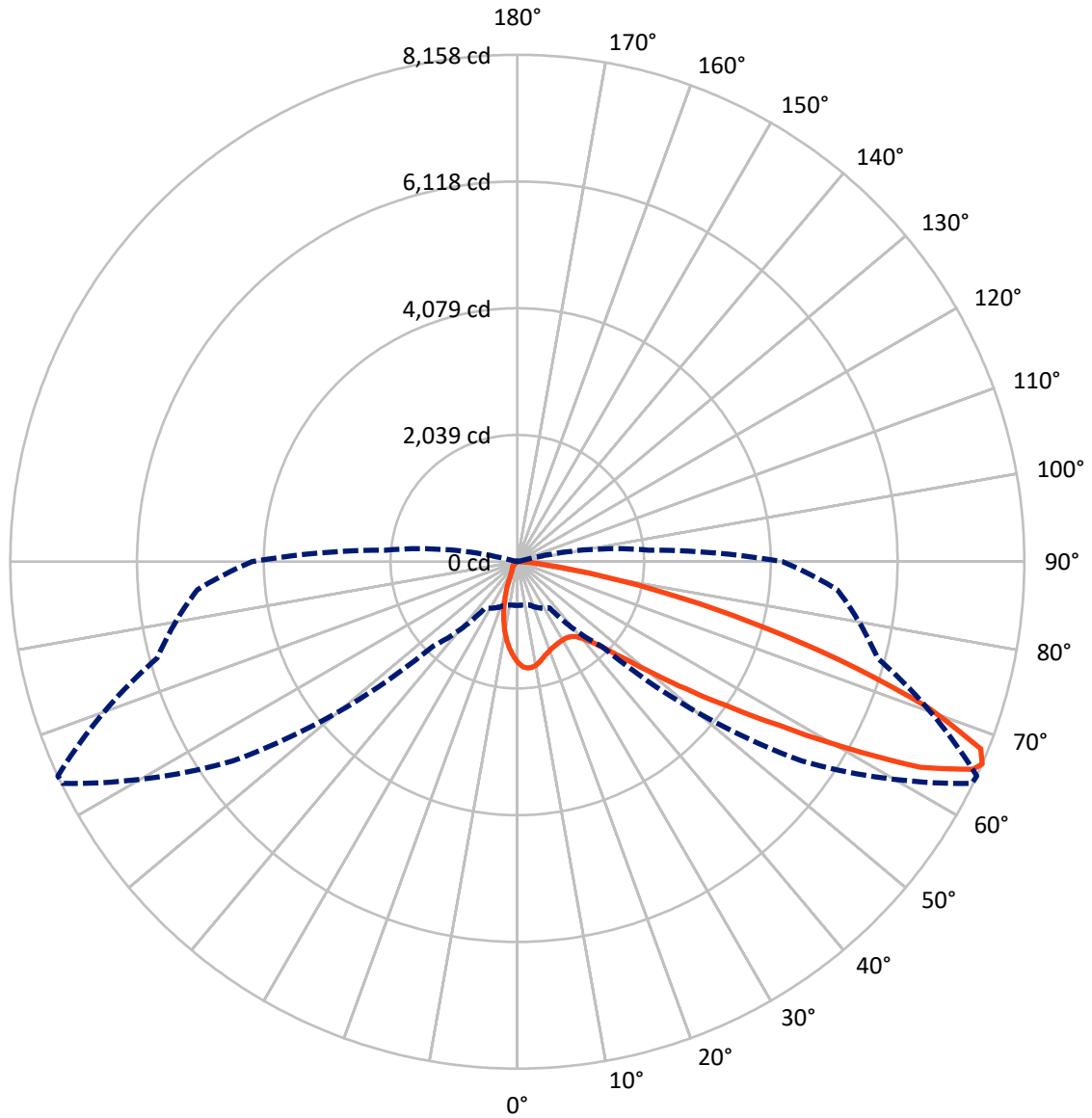
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	708.9	0.0	708.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6146.1	0.0	6146.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	6855.0	0.0	6855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	1.9
10°-20°	289.7	4.2
20°-30°	415.0	6.1
30°-40°	606.1	8.8
40°-50°	1016.3	14.8
50°-60°	1696.0	24.7
60°-70°	1800.3	26.3
70°-80°	815.3	11.9
80°-90°	83.4	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°	6855.0	100.0
0°-180°	6855.0	100.0

Coefficient of Utilization

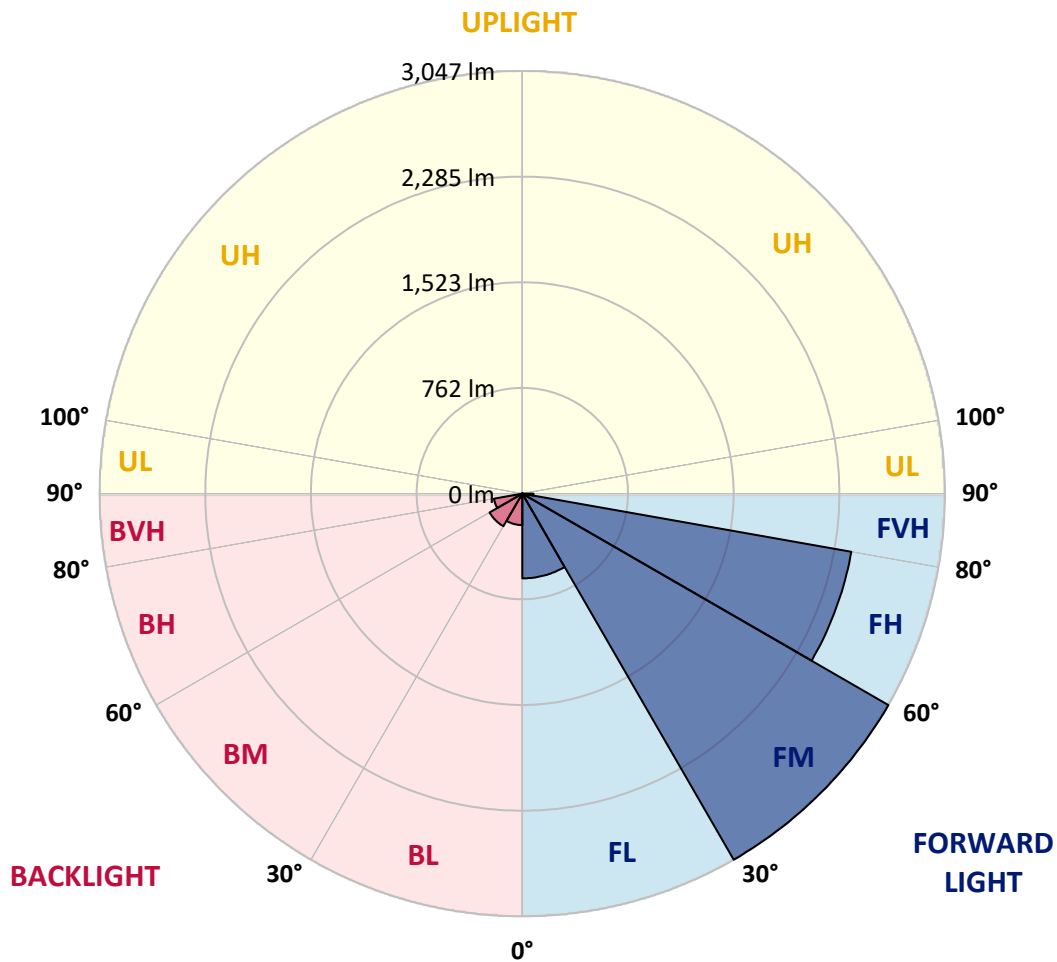


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.8	8.9			
FM (30°-60°)	3046.5	44.4			
FH (60°-80°)	2408.0	35.1			G2/5000
FVH (80°-90°)	80.8	1.2			G1/100
BL (0°-30°)	226.8	3.3	B1/500		
BM (30°-60°)	271.9	4.0	B1/1000		
BH (60°-80°)	207.6	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°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1713.1	1714.9	1717.2	1720.5	1722.8	1715.9	1706.1	1695.0	1692.7	1669.1	1640.4
5°	1621.4	1624.2	1644.6	1655.7	1680.7	1703.4	1717.7	1719.6	1718.6	1696.4	1650.6
7.5°	1490.8	1498.7	1518.6	1538.1	1584.8	1627.9	1678.8	1714.5	1716.8	1710.8	1653.8
10°	1384.8	1389.9	1400.1	1438.5	1477.4	1543.2	1614.5	1681.6	1687.2	1711.2	1651.0
12.5°	1301.9	1309.3	1321.8	1351.5	1398.2	1460.3	1541.3	1631.6	1643.2	1702.4	1643.2
15°	1244.1	1247.8	1260.3	1289.4	1334.8	1392.2	1474.2	1579.3	1589.5	1690.9	1641.8
17.5°	1216.7	1220.9	1229.7	1252.9	1290.4	1343.6	1423.7	1537.1	1550.1	1683.4	1646.9
20°	1224.2	1227.9	1228.3	1240.4	1265.8	1310.7	1386.7	1497.8	1514.5	1678.8	1655.2
22.5°	1266.3	1266.8	1261.2	1255.6	1264.4	1296.8	1364.0	1472.8	1489.9	1677.9	1664.9
25°	1329.3	1330.6	1321.4	1301.9	1284.3	1301.0	1358.9	1456.6	1471.9	1675.6	1670.9
27.5°	1416.3	1415.8	1413.1	1380.6	1330.6	1319.5	1363.1	1447.8	1460.7	1669.1	1673.3
30°	1538.1	1534.4	1528.3	1491.8	1415.4	1364.4	1380.6	1442.2	1454.3	1659.8	1667.2
32.5°	1658.0	1671.9	1670.9	1636.2	1540.8	1444.5	1417.2	1449.6	1458.4	1653.8	1658.4
35°	1797.8	1797.3	1833.0	1820.0	1708.4	1546.9	1479.7	1474.2	1481.1	1658.0	1654.3
37.5°	1927.4	1939.5	1995.0	2008.5	1906.6	1691.3	1568.2	1527.0	1529.3	1686.2	1664.5
40°	2089.0	2112.2	2195.1	2240.0	2150.1	1905.7	1698.7	1623.7	1624.2	1755.7	1702.9
42.5°	2297.4	2334.0	2411.3	2486.3	2438.1	2159.4	1894.6	1777.0	1776.0	1877.9	1790.9
45°	2550.6	2576.1	2664.1	2783.1	2752.5	2513.6	2179.8	2014.5	2002.5	2078.4	1946.9
47.5°	2769.2	2803.9	2893.3	3028.9	3167.8	2946.0	2520.5	2340.9	2333.0	2397.4	2214.5
50°	2864.5	2895.1	2989.1	3179.4	3516.0	3513.7	3028.0	2817.3	2803.9	2838.6	2628.4
52.5°	2759.9	2788.6	2883.5	3120.6	3679.9	4205.4	3763.2	3415.0	3398.8	3354.4	3122.9
55°	2401.6	2425.2	2565.5	2837.7	3616.9	4666.5	4776.3	4153.5	4090.6	3917.9	3682.7
57.5°	1912.2	1900.1	1987.2	2303.4	3247.4	4821.2	5816.1	5073.5	4961.0	4404.9	4156.3
60°	1325.1	1362.1	1397.3	1605.7	2441.8	4553.1	6462.9	6230.1	6081.9	4884.1	4610.0
62.5°	974.1	998.7	1021.8	1118.1	1535.3	3635.4	6577.3	7418.1	7286.6	5393.0	5042.9
65°	770.4	772.3	781.5	876.4	1011.6	2364.0	6027.7	8088.0	8054.3	5882.8	5218.4
66°	701.9	702.4	716.7	818.6	907.9	1925.1	5587.4	8139.0	8157.5	6000.4	5167.0
67.5°	613.5	611.6	632.5	735.7	826.9	1388.1	4799.4	7932.5	8042.2	6090.7	4982.3
70°	475.5	473.2	498.6	617.2	761.6	926.0	3190.0	6811.1	6988.0	5906.0	4408.2
72.5°	316.7	318.5	362.1	487.1	726.9	815.3	1919.1	5181.4	5431.4	4877.2	3467.8
75°	184.7	188.0	237.5	362.1	631.1	777.4	1086.2	3694.7	3854.4	3367.8	2160.3
77.5°	96.8	98.2	132.9	238.9	483.8	721.8	723.7	2360.3	2435.4	1636.7	855.2
80°	51.4	50.0	71.3	144.0	332.9	633.8	587.1	1249.6	1299.2	486.1	216.2
82.5°	19.4	21.3	38.0	94.5	196.8	455.1	505.6	552.4	535.2	107.0	90.7
85°	3.7	4.6	16.2	56.0	99.1	190.3	372.7	270.9	250.9	40.3	52.3
87.5°	0.5	0.9	4.6	13.4	14.4	64.4	110.2	75.0	64.8	14.8	21.8
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°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1626.5	1614.0	1572.3	1531.1	1489.0	1451.0	1425.1	1383.0	1372.3	1357.0	1348.2
5°	1623.3	1594.1	1514.0	1426.5	1345.0	1257.0	1189.9	1125.1	1090.4	1072.8	1066.3
7.5°	1614.0	1567.7	1442.7	1305.6	1175.1	1043.6	929.2	842.2	786.2	747.7	721.8
10°	1595.5	1531.6	1359.8	1171.4	974.1	800.5	655.6	545.4	460.2	433.4	434.3
12.5°	1576.5	1491.3	1267.2	1022.3	777.8	558.8	405.1	318.1	277.3	263.9	261.1
15°	1558.9	1452.9	1176.5	877.8	579.2	362.1	261.1	230.6	219.5	217.1	216.7
17.5°	1549.6	1417.2	1079.7	712.5	404.2	245.9	209.3	200.9	197.7	195.4	194.5
20°	1541.8	1386.2	987.1	557.9	276.4	201.4	187.5	179.6	174.1	171.8	170.4
22.5°	1536.2	1354.3	891.3	432.0	211.6	178.7	166.2	156.0	148.2	145.4	143.5
25°	1527.9	1319.1	794.5	315.8	178.3	158.8	144.5	132.4	122.2	117.1	116.2
27.5°	1515.8	1279.3	688.5	233.8	159.3	141.2	123.6	108.8	98.6	93.1	93.5
30°	1496.4	1237.6	582.4	185.7	144.0	123.2	104.2	89.8	80.1	75.9	75.5
32.5°	1473.2	1187.1	485.2	159.3	130.1	107.0	87.0	74.5	67.1	63.9	63.4
35°	1451.5	1136.2	386.1	143.1	115.7	92.1	73.2	62.5	56.9	54.2	54.6
37.5°	1439.4	1090.8	300.9	130.1	104.2	79.2	63.0	53.7	48.6	46.3	45.8
40°	1447.3	1053.8	239.4	118.5	91.2	68.1	54.2	46.3	41.2	38.0	38.0
42.5°	1484.4	1037.6	193.1	107.4	79.2	58.8	47.2	39.8	34.3	31.0	31.5
45°	1597.3	1054.7	161.6	97.2	68.1	50.9	40.7	32.9	27.8	25.5	25.0
47.5°	1784.8	1119.1	139.8	86.6	58.3	43.5	34.3	27.3	22.2	20.4	19.9
50°	2112.6	1251.9	123.6	75.9	49.5	37.0	28.2	21.8	17.6	15.7	15.7
52.5°	2563.6	1541.8	112.0	63.9	41.7	31.5	23.1	17.6	13.9	12.5	12.0
55°	3034.9	1847.3	106.0	53.7	34.7	25.9	18.5	13.9	10.6	9.3	8.8
57.5°	3488.2	2087.2	99.1	43.5	27.8	19.9	14.4	10.6	7.4	6.5	6.0
60°	3923.0	2281.2	84.3	34.7	21.8	14.4	10.6	7.4	5.1	4.2	4.2
62.5°	4311.9	2394.1	66.2	27.8	16.7	10.2	6.9	5.6	3.7	2.8	2.8
65°	4357.2	2247.4	50.0	21.3	12.0	6.5	4.2	4.2	2.8	1.9	1.9
66°	4266.0	2122.8	44.0	19.4	10.6	5.6	3.7	3.2	2.3	1.4	1.4
67.5°	4062.3	1910.3	38.0	16.7	8.8	4.2	2.8	2.8	1.9	0.9	0.9
70°	3510.0	1560.3	30.1	12.5	6.5	3.2	1.9	1.9	1.4	0.9	0.9
72.5°	2675.2	1164.9	24.5	9.3	4.6	2.3	1.4	1.4	1.4	0.9	0.9
75°	1613.5	627.4	19.0	6.9	4.2	1.9	0.9	1.4	1.9	1.4	0.9
77.5°	594.5	213.4	14.8	5.6	3.2	1.9	0.9	0.9	1.9	1.4	1.4
80°	145.8	55.6	10.6	4.6	3.2	1.9	0.9	0.9	1.9	1.9	1.9
82.5°	67.6	23.6	7.4	4.2	3.2	1.9	0.9	0.9	1.4	1.9	1.9
85°	38.9	11.1	6.0	4.6	3.2	1.9	0.9	0.9	1.4	1.9	1.9
87.5°	15.7	5.6	5.6	4.6	3.7	2.3	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)