

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: P451211

Luminaire Tested: **GALN-SA2A-750-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451211  
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-750-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 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: 7527 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

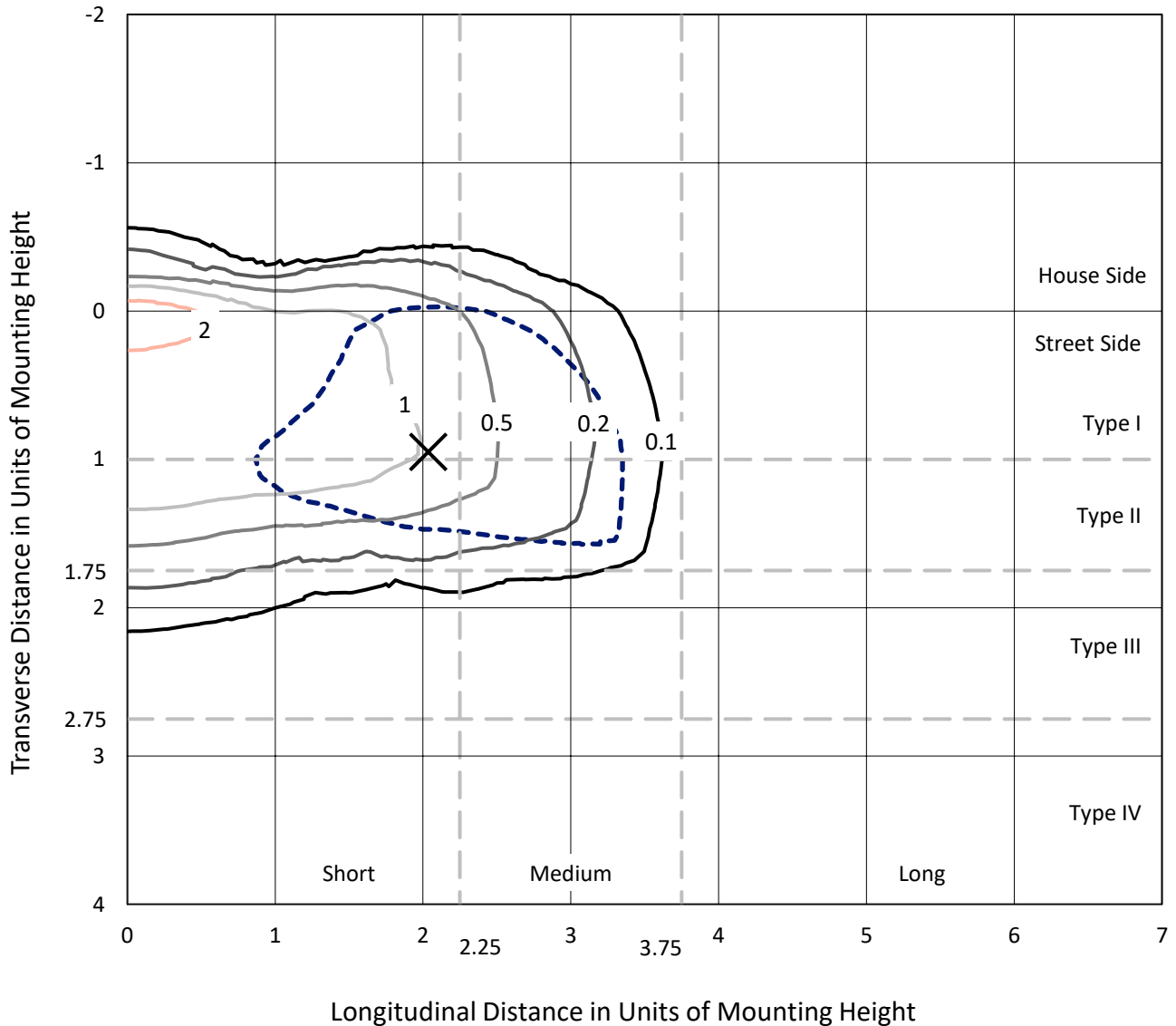
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

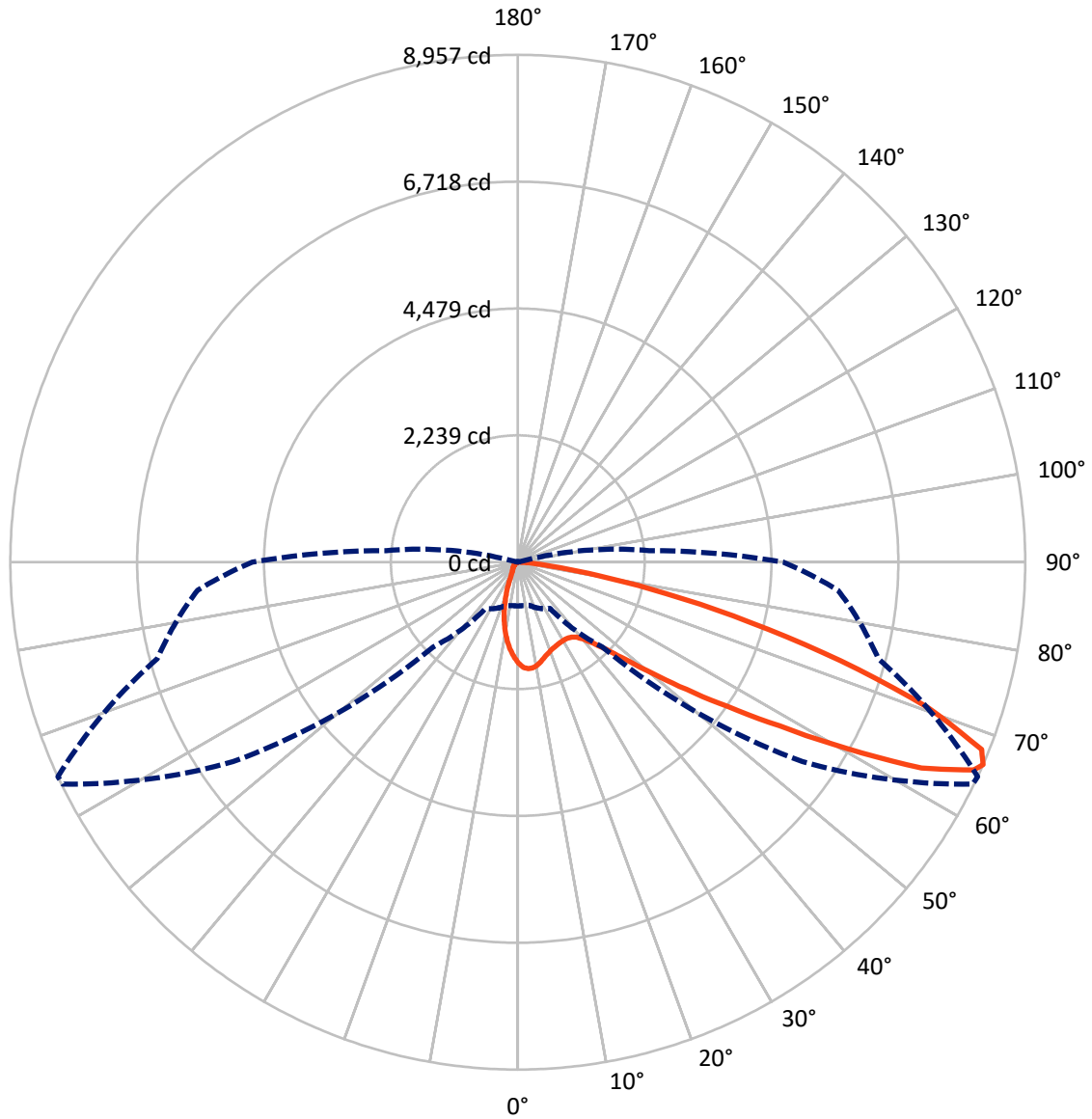
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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
<b>House Side</b>	Lumens	778.4	0.0	778.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	6748.6	0.0	6748.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	7527.0	0.0	7527.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.0	1.9
10°-20°	318.1	4.2
20°-30°	455.6	6.1
30°-40°	665.5	8.8
40°-50°	1115.9	14.8
50°-60°	1862.3	24.7
60°-70°	1976.8	26.3
70°-80°	895.3	11.9
80°-90°	91.6	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°	7527.0	100.0
0°-180°	7527.0	100.0

**Coefficient of Utilization**



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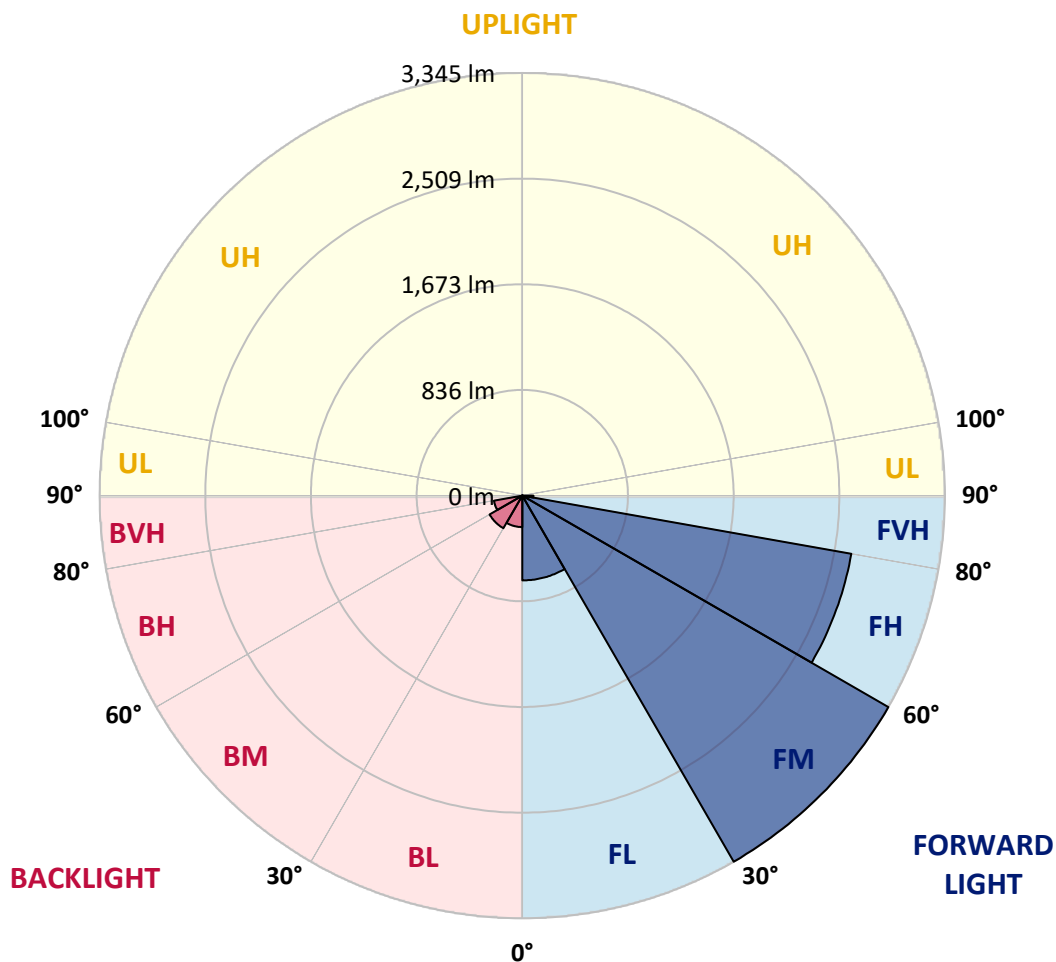
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.7	8.9			
FM (30°-60°)	3345.2	44.4			
FH (60°-80°)	2644.1	35.1			G2/5000
FVH (80°-90°)	88.7	1.2			G1/100
BL (0°-30°)	249.0	3.3	B1/500		
BM (30°-60°)	298.5	4.0	B1/1000		
BH (60°-80°)	228.0	3.0	B1/500		G1/500
BVH (80°-90°)	2.9	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°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1881.0	1883.0	1885.6	1889.1	1891.7	1884.1	1873.4	1861.2	1858.6	1832.7	1801.2
5°	1780.4	1783.4	1805.8	1818.0	1845.4	1870.3	1886.1	1888.1	1887.1	1862.7	1812.4
7.5°	1637.0	1645.6	1667.5	1688.8	1740.2	1787.5	1843.4	1882.5	1885.1	1878.5	1815.9
10°	1520.6	1526.2	1537.3	1579.5	1622.2	1694.4	1772.7	1846.4	1852.5	1879.0	1812.9
12.5°	1429.6	1437.7	1451.4	1484.0	1535.3	1603.4	1692.4	1791.5	1804.2	1869.3	1804.2
15°	1366.0	1370.1	1383.8	1415.8	1465.7	1528.7	1618.7	1734.1	1745.3	1856.6	1802.7
17.5°	1336.0	1340.6	1350.3	1375.7	1416.9	1475.3	1563.3	1687.8	1702.1	1848.5	1808.3
20°	1344.2	1348.2	1348.7	1362.0	1389.9	1439.2	1522.6	1644.6	1662.9	1843.4	1817.5
22.5°	1390.4	1390.9	1384.8	1378.7	1388.4	1424.0	1497.7	1617.2	1636.0	1842.4	1828.1
25°	1459.6	1461.1	1450.9	1429.6	1410.3	1428.6	1492.1	1599.4	1616.1	1839.8	1834.8
27.5°	1555.1	1554.6	1551.6	1516.0	1461.1	1448.9	1496.7	1589.7	1603.9	1832.7	1837.3
30°	1688.8	1684.8	1678.2	1638.0	1554.1	1498.2	1516.0	1583.6	1596.8	1822.5	1830.7
32.5°	1820.5	1835.8	1834.8	1796.6	1691.9	1586.2	1556.2	1591.7	1601.4	1815.9	1821.0
35°	1974.0	1973.5	2012.7	1998.4	1875.9	1698.5	1624.8	1618.7	1626.3	1820.5	1816.4
37.5°	2116.4	2129.6	2190.6	2205.4	2093.5	1857.1	1721.9	1676.6	1679.2	1851.5	1827.6
40°	2293.8	2319.2	2410.2	2459.6	2360.9	2092.5	1865.3	1782.9	1783.4	1927.8	1869.8
42.5°	2522.6	2562.8	2647.7	2730.0	2677.1	2371.1	2080.3	1951.2	1950.2	2062.0	1966.4
45°	2800.7	2828.6	2925.2	3055.9	3022.3	2760.0	2393.5	2212.0	2198.8	2282.1	2137.7
47.5°	3040.6	3078.8	3176.9	3325.8	3478.3	3234.8	2767.6	2570.4	2561.7	2632.4	2431.6
50°	3145.4	3178.9	3282.1	3491.1	3860.7	3858.1	3324.8	3093.5	3078.8	3116.9	2886.1
52.5°	3030.5	3062.0	3166.2	3426.5	4040.6	4617.6	4132.1	3749.8	3732.0	3683.2	3429.0
55°	2637.0	2662.9	2816.9	3115.9	3971.5	5124.0	5244.5	4560.7	4491.6	4301.9	4043.7
57.5°	2099.6	2086.4	2182.0	2529.2	3565.8	5293.8	6386.3	5570.9	5447.3	4836.7	4563.7
60°	1455.0	1495.7	1534.3	1763.1	2681.2	4999.4	7096.5	6840.8	6678.1	5362.9	5062.0
62.5°	1069.6	1096.6	1122.0	1227.7	1685.8	3991.8	7222.1	8145.3	8000.9	5921.6	5537.3
65°	845.9	848.0	858.1	962.4	1110.8	2595.8	6618.6	8880.9	8843.8	6459.5	5730.0
66°	770.7	771.2	787.0	898.8	996.9	2113.9	6135.2	8936.8	8957.2	6588.6	5673.5
67.5°	673.6	671.6	694.4	807.8	908.0	1524.1	5269.9	8710.1	8830.6	6687.8	5470.7
70°	522.1	519.6	547.5	677.7	836.3	1016.8	3502.8	7478.8	7673.0	6484.9	4840.3
72.5°	347.7	349.8	397.6	534.8	798.2	895.3	2107.2	5689.3	5963.8	5355.3	3807.8
75°	202.8	206.4	260.8	397.6	692.9	853.6	1192.7	4056.9	4232.3	3698.0	2372.1
77.5°	106.3	107.8	145.9	262.3	531.3	792.6	794.6	2591.7	2674.1	1797.1	939.0
80°	56.4	54.9	78.3	158.1	365.5	696.0	644.6	1372.1	1426.5	533.8	237.4
82.5°	21.4	23.4	41.7	103.7	216.1	499.7	555.2	606.5	587.7	117.4	99.6
85°	4.1	5.1	17.8	61.5	108.8	208.9	409.2	297.4	275.5	44.2	57.4
87.5°	0.5	1.0	5.1	14.7	15.8	70.7	121.0	82.4	71.2	16.3	23.9
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°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1785.9	1772.2	1726.5	1681.2	1635.0	1593.3	1564.8	1518.5	1506.8	1490.1	1480.4
5°	1782.4	1750.4	1662.4	1566.3	1476.8	1380.3	1306.5	1235.4	1197.2	1177.9	1170.8
7.5°	1772.2	1721.4	1584.1	1433.6	1290.3	1145.9	1020.3	924.7	863.2	821.0	792.6
10°	1751.9	1681.7	1493.1	1286.2	1069.6	879.0	719.9	598.9	505.3	475.8	476.9
12.5°	1731.0	1637.5	1391.4	1122.5	854.1	613.6	444.8	349.3	304.5	289.8	286.7
15°	1711.7	1595.3	1291.8	963.9	636.0	397.6	286.7	253.2	241.0	238.4	237.9
17.5°	1701.6	1556.2	1185.5	782.4	443.8	270.0	229.8	220.6	217.1	214.5	213.5
20°	1692.9	1522.1	1083.9	612.6	303.5	221.1	205.9	197.3	191.2	188.6	187.1
22.5°	1686.8	1487.0	978.6	474.3	232.3	196.2	182.5	171.3	162.7	159.6	157.6
25°	1677.7	1448.4	872.4	346.7	195.7	174.4	158.6	145.4	134.2	128.6	127.6
27.5°	1664.4	1404.7	756.0	256.7	174.9	155.1	135.7	119.5	108.3	102.2	102.7
30°	1643.1	1358.9	639.5	203.9	158.1	135.2	114.4	98.6	88.0	83.4	82.9
32.5°	1617.7	1303.5	532.8	174.9	142.9	117.4	95.6	81.8	73.7	70.2	69.6
35°	1593.8	1247.6	424.0	157.1	127.1	101.2	80.3	68.6	62.5	59.5	60.0
37.5°	1580.6	1197.7	330.4	142.9	114.4	86.9	69.1	59.0	53.4	50.8	50.3
40°	1589.2	1157.1	262.8	130.1	100.2	74.7	59.5	50.8	45.2	41.7	41.7
42.5°	1629.9	1139.3	212.0	117.9	86.9	64.6	51.9	43.7	37.6	34.1	34.6
45°	1753.9	1158.1	177.4	106.8	74.7	55.9	44.7	36.1	30.5	28.0	27.5
47.5°	1959.8	1228.8	153.5	95.1	64.1	47.8	37.6	30.0	24.4	22.4	21.9
50°	2319.7	1374.7	135.7	83.4	54.4	40.7	31.0	23.9	19.3	17.3	17.3
52.5°	2814.9	1692.9	123.0	70.2	45.8	34.6	25.4	19.3	15.3	13.7	13.2
55°	3332.4	2028.4	116.4	59.0	38.1	28.5	20.3	15.3	11.7	10.2	9.7
57.5°	3830.2	2291.8	108.8	47.8	30.5	21.9	15.8	11.7	8.1	7.1	6.6
60°	4307.5	2504.8	92.5	38.1	23.9	15.8	11.7	8.1	5.6	4.6	4.6
62.5°	4734.6	2628.8	72.7	30.5	18.3	11.2	7.6	6.1	4.1	3.1	3.1
65°	4784.4	2467.7	54.9	23.4	13.2	7.1	4.6	4.6	3.1	2.0	2.0
66°	4684.2	2330.9	48.3	21.4	11.7	6.1	4.1	3.6	2.5	1.5	1.5
67.5°	4460.5	2097.6	41.7	18.3	9.7	4.6	3.1	3.1	2.0	1.0	1.0
70°	3854.0	1713.2	33.0	13.7	7.1	3.6	2.0	2.0	1.5	1.0	1.0
72.5°	2937.4	1279.1	26.9	10.2	5.1	2.5	1.5	1.5	1.5	1.0	1.0
75°	1771.7	688.9	20.8	7.6	4.6	2.0	1.0	1.5	2.0	1.5	1.0
77.5°	652.8	234.4	16.3	6.1	3.6	2.0	1.0	1.0	2.0	1.5	1.5
80°	160.1	61.0	11.7	5.1	3.6	2.0	1.0	1.0	2.0	2.0	2.0
82.5°	74.2	25.9	8.1	4.6	3.6	2.0	1.0	1.0	1.5	2.0	2.0
85°	42.7	12.2	6.6	5.1	3.6	2.0	1.0	1.0	1.5	2.0	2.0
87.5°	17.3	6.1	6.1	5.1	4.1	2.5	1.0	1.0	1.0	1.5	1.5
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)