

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: P451154

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451154  
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-SA2A-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8360 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

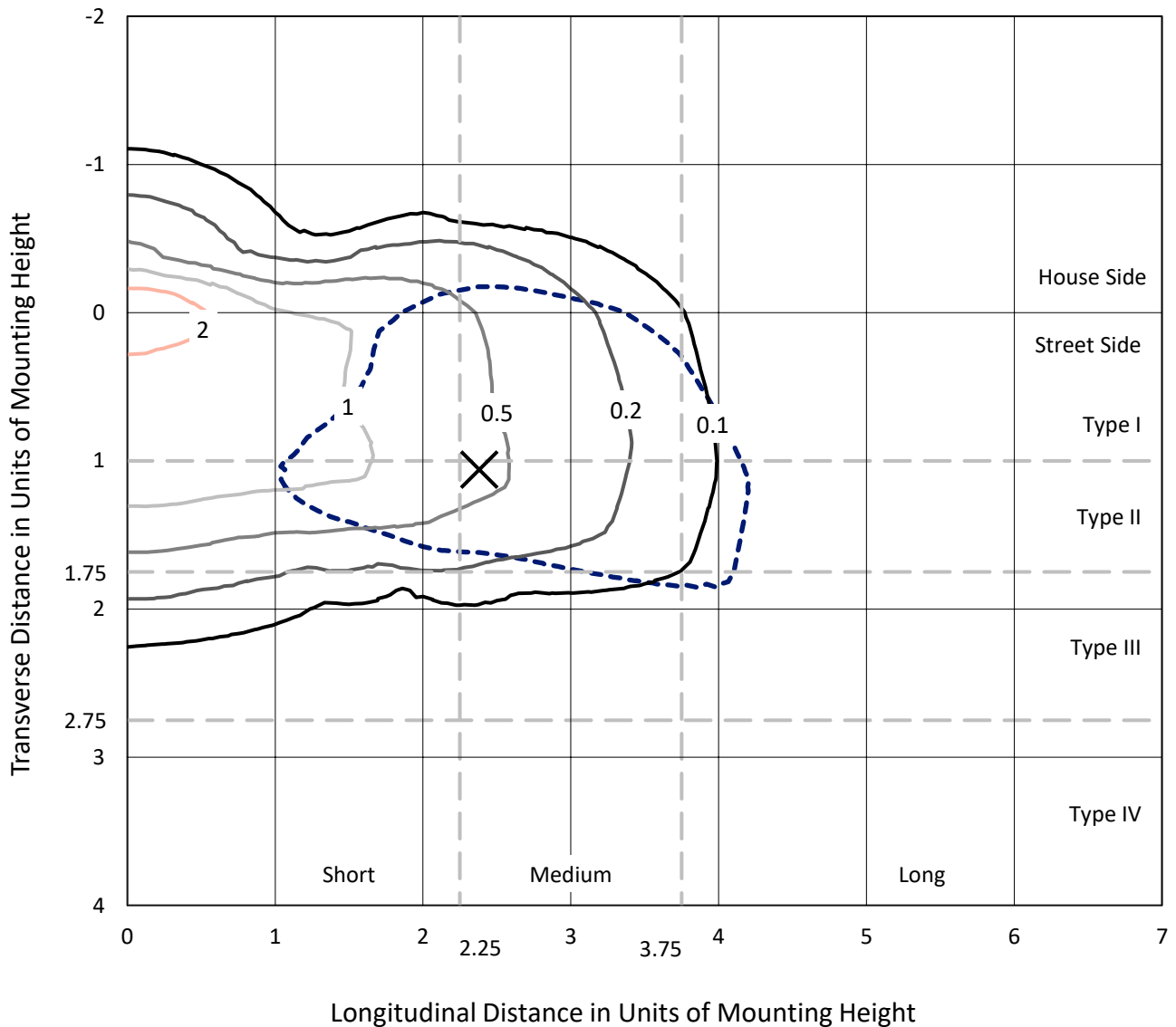
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451154  
 CATALOG NUMBER: GALN-SA2A-730-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

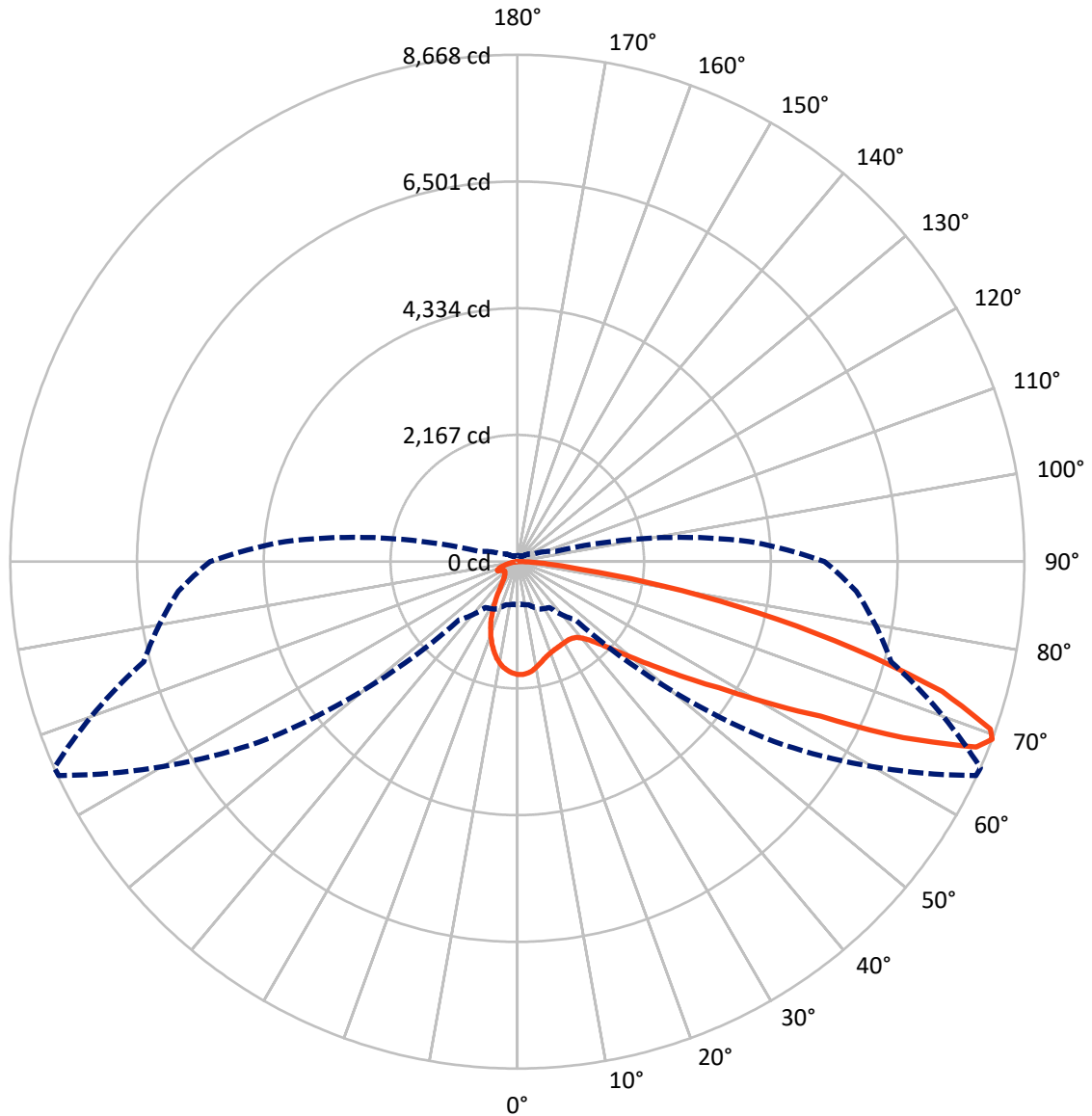
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P451154  
CATALOG NUMBER: GALN-SA2A-730-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P451154

CATALOG NUMBER: GALN-SA2A-730-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1572.2	0.0	1572.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	6787.8	0.0	6787.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	8360.0	0.0	8360.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.6	2.0
10°-20°	397.6	4.8
20°-30°	541.3	6.5
30°-40°	727.4	8.7
40°-50°	1086.2	13.0
50°-60°	1727.8	20.7
60°-70°	2125.1	25.4
70°-80°	1382.7	16.5
80°-90°	204.2	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°	8360.0	100.0
0°-180°	8360.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451154

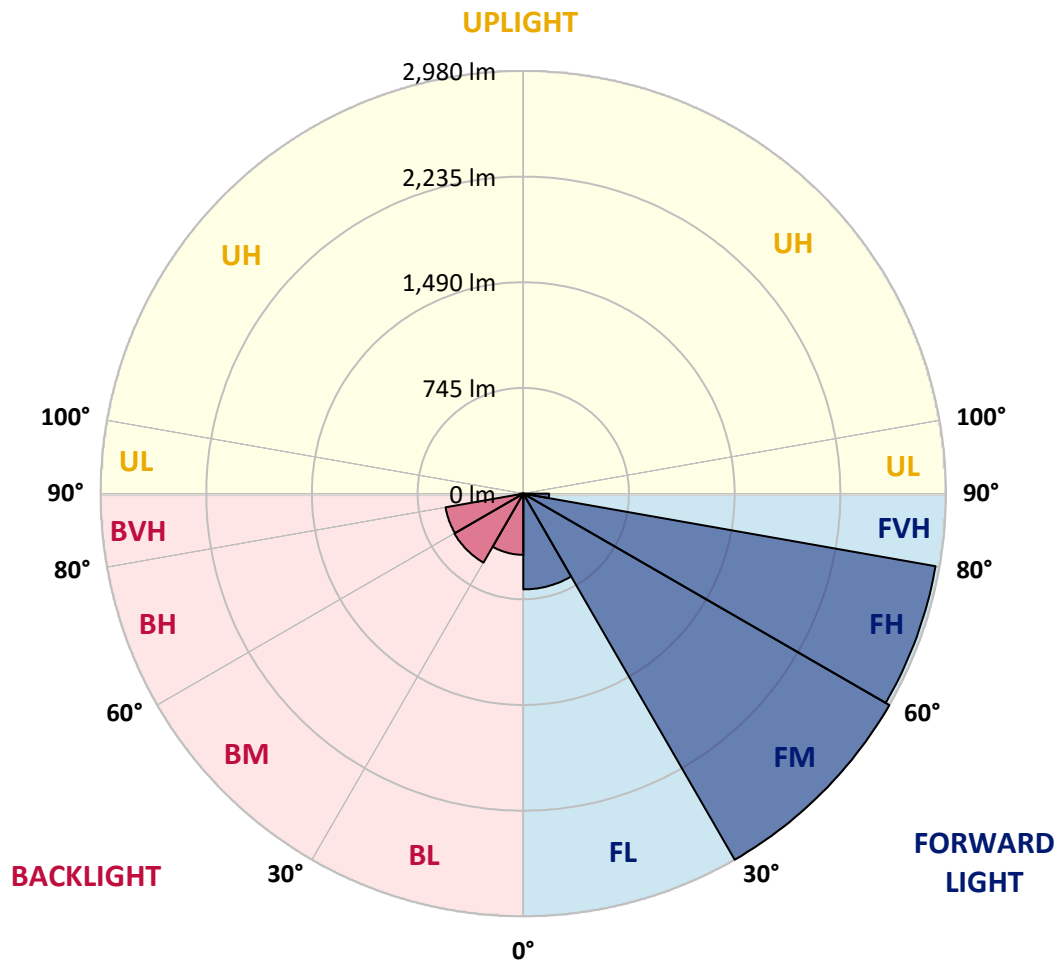
CATALOG NUMBER: GALN-SA2A-730-U-SL2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.1	8.1			
FM	(30°-60°)	2980.1	35.6			
FH	(60°-80°)	2951.1	35.3			G2/5000
FVH	(80°-90°)	181.5	2.2			G2/225
BL	(0°-30°)	431.6	5.2	B1/500		
BM	(30°-60°)	561.3	6.7	B1/1000		
BH	(60°-80°)	556.6	6.7	B2/1000		G2/1000
BVH	(80°-90°)	22.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium





REPORT NUMBER: P451154

CATALOG NUMBER: GALN-SA2A-730-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	1863.0	1870.4	1878.7	1888.0	1905.6	1915.3	1922.2	1930.1	1931.0	1935.2	1931.9
5°	1725.5	1734.3	1746.8	1764.4	1790.7	1831.9	1874.5	1909.3	1913.4	1932.9	1938.4
7.5°	1610.6	1615.7	1625.9	1654.2	1691.7	1737.5	1799.5	1869.9	1880.1	1926.4	1942.6
10°	1517.1	1522.2	1534.3	1563.4	1600.5	1657.9	1725.9	1818.5	1826.9	1906.5	1943.5
12.5°	1447.2	1451.9	1464.8	1493.5	1536.1	1589.8	1664.8	1763.0	1775.0	1880.1	1934.7
15°	1394.0	1402.8	1413.4	1437.0	1481.9	1533.8	1606.5	1712.0	1721.8	1852.3	1928.7
17.5°	1371.3	1375.5	1382.9	1404.6	1437.5	1488.4	1561.6	1672.2	1683.8	1832.9	1927.3
20°	1372.2	1376.4	1377.8	1389.8	1413.4	1457.4	1529.6	1640.7	1654.6	1815.7	1929.6
22.5°	1403.7	1404.2	1399.1	1394.9	1404.2	1440.7	1506.9	1617.1	1633.3	1808.3	1931.5
25°	1452.3	1460.6	1453.2	1433.8	1416.7	1434.3	1498.1	1604.2	1619.4	1797.7	1929.2
27.5°	1531.0	1532.4	1526.4	1500.0	1455.6	1442.6	1494.4	1594.4	1607.4	1789.8	1917.6
30°	1636.6	1632.4	1626.9	1597.7	1527.8	1474.5	1502.3	1585.6	1599.1	1778.2	1903.7
32.5°	1743.5	1756.5	1751.4	1717.1	1626.4	1536.6	1527.8	1584.7	1595.8	1769.4	1888.4
35°	1856.9	1863.0	1887.0	1869.4	1776.4	1637.0	1575.5	1599.1	1607.9	1769.9	1877.8
37.5°	1945.8	1962.0	2018.5	2033.8	1946.3	1769.9	1652.8	1639.8	1643.5	1792.6	1881.9
40°	2053.2	2081.0	2153.7	2216.2	2158.8	1942.6	1784.3	1715.3	1719.9	1847.2	1909.3
42.5°	2189.4	2208.8	2306.5	2391.2	2381.9	2170.8	1943.5	1838.9	1841.2	1956.0	1985.6
45°	2348.6	2376.4	2486.1	2613.4	2635.2	2429.2	2173.6	2025.9	2024.5	2125.0	2128.2
47.5°	2552.3	2569.4	2678.2	2817.1	2905.1	2753.7	2452.8	2294.4	2279.6	2371.3	2344.9
50°	2739.8	2766.7	2849.1	3000.9	3219.9	3133.8	2819.9	2642.6	2607.9	2693.5	2649.1
52.5°	2818.5	2846.8	2916.2	3104.6	3489.8	3625.5	3286.1	3057.9	3000.0	3065.7	3049.5
55°	2681.9	2718.5	2783.3	3012.5	3608.3	4192.6	3914.8	3538.0	3495.8	3467.6	3472.2
57.5°	2314.8	2349.5	2437.0	2689.8	3466.7	4604.2	4812.5	4155.1	4064.8	3934.7	3956.9
60°	1762.0	1783.8	1829.2	2109.3	3046.8	4711.1	5831.9	4935.2	4877.8	4400.0	4415.7
62.5°	1251.4	1275.9	1307.4	1447.2	2230.6	4409.7	6630.1	6024.5	5819.4	4881.9	4866.7
65°	1016.2	999.5	1037.5	1102.8	1308.8	3417.6	6809.7	7536.6	7254.2	5516.7	5304.6
67.5°	835.6	818.1	855.6	971.8	995.4	1983.8	6162.5	8518.1	8461.6	6206.9	5749.5
69°	739.8	730.6	763.4	895.8	955.6	1408.8	5368.5	8654.6	8668.1	6613.9	5818.1
70°	666.7	670.4	702.3	857.4	937.5	1161.6	4588.4	8466.2	8580.1	6817.1	5744.0
72.5°	490.7	498.6	543.1	710.2	920.4	985.6	2730.6	7394.9	7596.3	6829.2	5254.6
75°	343.1	339.4	378.7	534.7	869.4	976.9	1603.7	5719.0	5947.2	5902.8	4415.3
77.5°	224.5	230.6	262.0	377.8	731.5	969.4	1045.4	4057.4	4205.6	3947.7	2611.6
80°	158.3	157.9	175.5	257.9	542.6	931.5	856.0	2557.4	2519.9	1551.4	774.5
82.5°	90.7	97.2	117.6	181.5	363.0	819.9	787.5	1223.1	1116.7	442.1	261.6
85°	50.5	52.8	69.9	109.7	212.0	617.6	687.5	556.5	525.0	184.7	112.5
87.5°	16.2	17.6	29.2	55.6	96.3	291.7	389.4	256.9	237.0	66.7	45.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451154  
 CATALOG NUMBER: GALN-SA2A-730-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	1933.3	1938.9	1924.1	1909.7	1896.8	1878.7	1862.5	1849.1	1839.8	1838.4	1833.8
5°	1939.8	1940.3	1912.0	1874.1	1837.0	1796.3	1754.2	1724.1	1695.8	1680.1	1672.2
7.5°	1944.4	1940.3	1889.4	1827.8	1756.5	1682.4	1608.3	1549.1	1503.2	1485.2	1492.1
10°	1942.6	1929.6	1855.1	1756.5	1652.8	1542.1	1435.6	1352.3	1275.9	1236.6	1237.5
12.5°	1932.4	1911.1	1804.2	1676.4	1524.1	1375.9	1213.0	1100.5	1012.0	959.7	943.5
15°	1923.6	1886.6	1744.4	1567.6	1378.2	1166.7	968.1	829.2	755.1	713.9	713.4
17.5°	1914.4	1863.0	1679.2	1452.3	1210.6	938.4	730.1	624.1	589.4	593.5	586.6
20°	1904.6	1835.2	1611.1	1324.1	1006.5	700.0	546.8	503.7	513.4	532.4	535.2
22.5°	1893.5	1805.6	1538.0	1182.9	791.7	526.9	443.5	437.0	462.0	491.7	495.8
25°	1876.4	1768.5	1445.8	1035.2	610.6	424.5	388.4	393.1	417.6	442.6	445.4
27.5°	1852.3	1722.7	1352.8	850.9	458.8	364.4	355.1	361.1	373.1	388.4	392.1
30°	1819.9	1670.8	1245.8	691.7	367.6	334.3	330.6	333.8	340.7	347.2	349.1
32.5°	1787.5	1620.8	1138.0	529.6	327.8	314.4	310.6	310.6	310.6	311.6	312.0
35°	1757.4	1573.6	1022.2	412.5	306.9	298.6	293.5	288.0	287.0	283.8	283.8
37.5°	1740.7	1530.6	899.1	345.4	291.7	285.6	278.7	269.4	264.4	264.8	263.9
40°	1744.0	1502.3	787.0	307.4	279.2	272.7	262.0	251.4	248.1	248.1	247.2
42.5°	1780.6	1493.1	679.6	287.5	267.1	259.7	246.3	236.6	234.7	234.3	235.2
45°	1864.8	1515.7	583.3	274.5	256.9	245.8	232.4	223.6	221.8	221.8	221.3
47.5°	2029.2	1589.4	514.4	266.2	249.5	235.2	221.3	212.5	209.3	208.3	208.3
50°	2284.7	1749.1	463.0	258.8	240.3	225.5	211.1	200.9	195.8	195.4	194.9
52.5°	2639.8	1998.1	443.1	253.2	230.1	215.3	199.5	189.8	183.3	181.9	181.0
55°	3055.1	2345.8	470.4	249.1	219.4	203.7	187.5	177.3	171.3	168.5	168.1
57.5°	3536.1	2763.4	574.1	243.5	209.7	191.2	175.5	165.3	158.8	155.6	154.6
60°	3968.1	3192.6	755.1	240.3	201.4	177.8	161.6	152.3	146.3	143.1	142.6
62.5°	4442.6	3601.9	971.3	249.1	197.7	164.8	148.6	140.3	135.2	131.9	131.9
65°	4949.5	4011.6	1114.4	278.7	203.2	154.6	134.7	127.8	123.1	120.8	120.4
67.5°	5291.2	4153.2	918.1	309.3	217.1	143.5	121.3	115.7	113.0	110.6	110.6
69°	5254.2	3974.1	677.3	317.1	221.3	138.0	113.9	109.7	106.0	105.1	104.2
70°	5137.0	3769.9	567.6	312.0	218.1	132.9	109.3	104.2	100.9	100.0	99.5
72.5°	4575.5	3269.4	422.7	271.3	185.6	115.3	96.8	92.1	89.4	88.0	88.0
75°	3801.4	2672.2	330.1	215.7	145.4	97.2	82.9	79.2	76.9	75.9	75.5
77.5°	2130.6	1492.1	237.0	169.0	110.2	78.7	69.4	66.2	63.9	63.0	63.0
80°	593.5	426.4	139.4	111.6	75.0	59.7	55.1	52.8	49.5	47.2	48.6
82.5°	223.6	184.7	79.6	67.1	47.7	39.8	38.4	36.6	35.2	31.9	31.9
85°	108.8	89.8	50.9	35.6	26.4	20.8	19.9	19.0	18.1	15.7	16.2
87.5°	37.5	39.8	22.2	13.0	7.9	5.1	4.2	2.3	2.3	2.3	2.3
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)