

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: P451158

Luminaire Tested: **GALN-SA2A-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
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-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8198 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

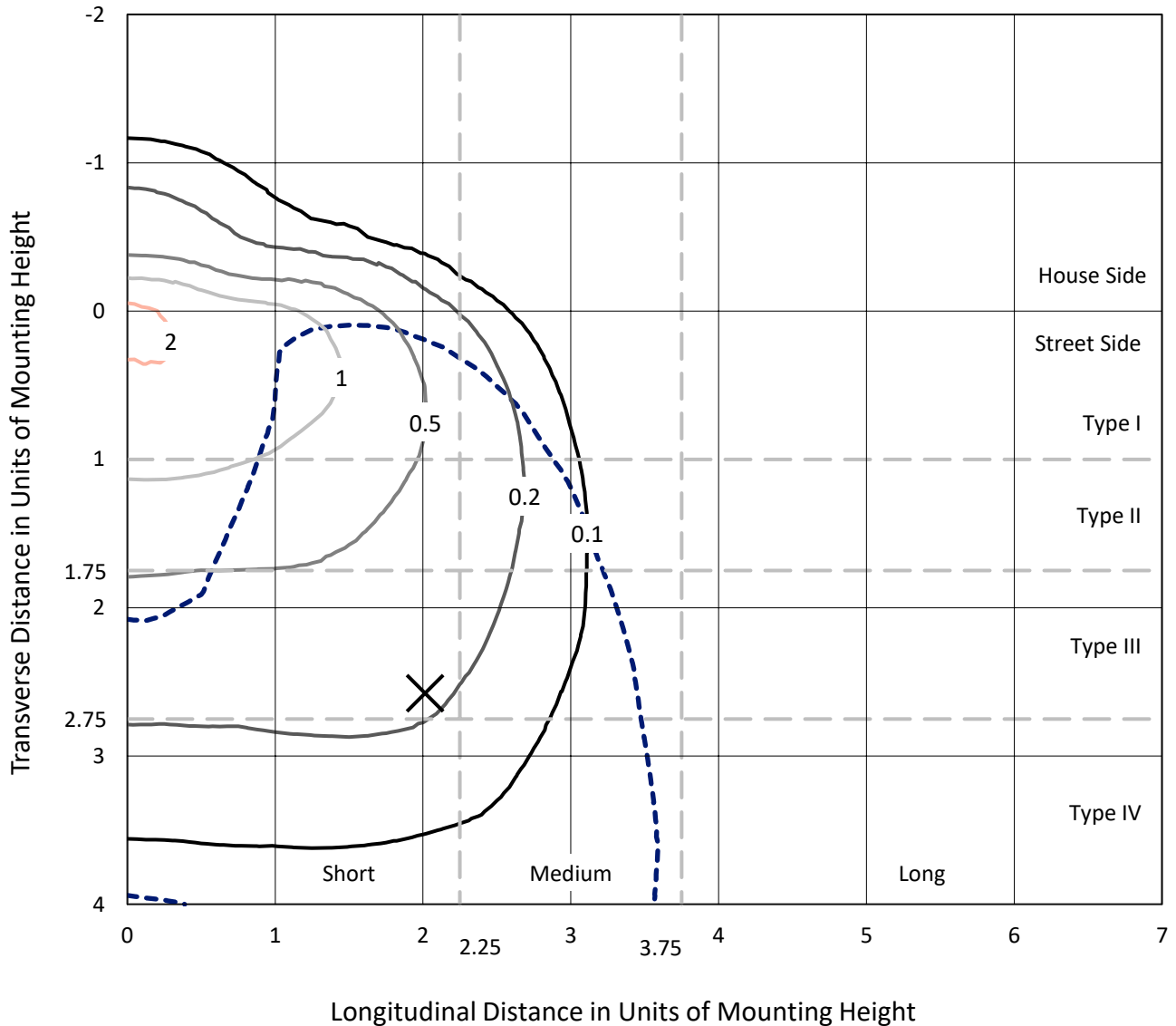
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

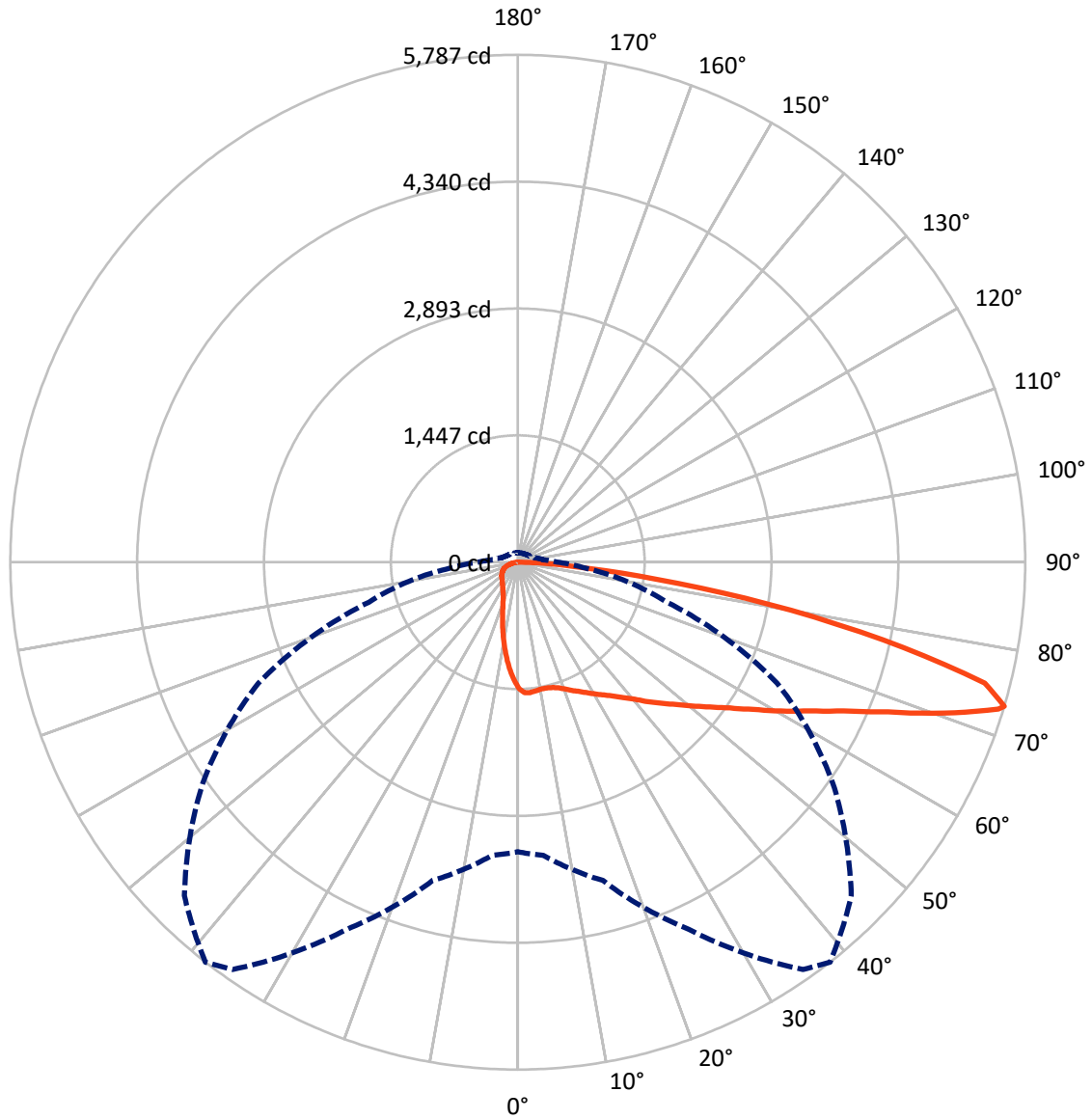
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1102.1	0.0	1102.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	7095.9	0.0	7095.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	8198.0	0.0	8198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.7	1.5
10°-20°	322.4	3.9
20°-30°	502.0	6.1
30°-40°	736.3	9.0
40°-50°	1092.3	13.3
50°-60°	1547.5	18.9
60°-70°	1963.1	23.9
70°-80°	1634.1	19.9
80°-90°	274.6	3.3
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°	8198.0	100.0
0°-180°	8198.0	100.0

**Coefficient of Utilization**



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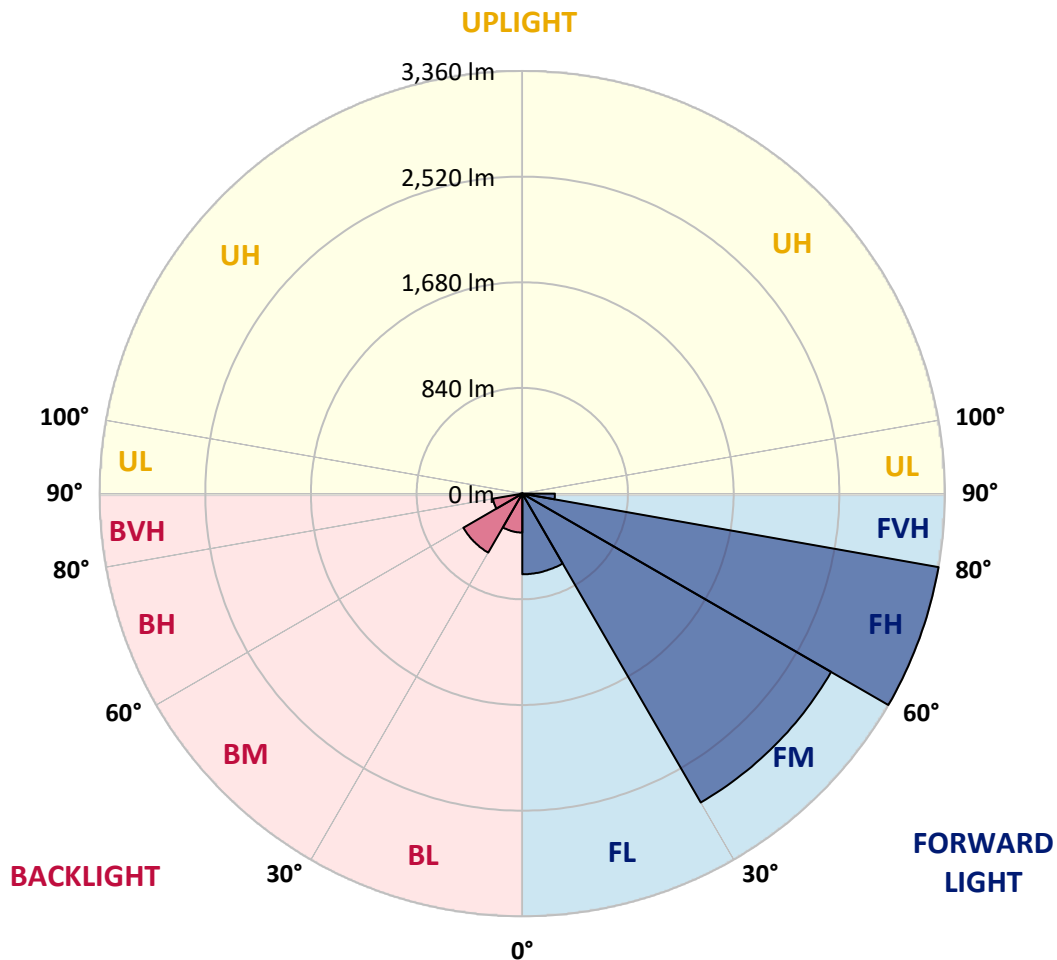
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.9	7.8			
FM (30°-60°)	2835.1	34.6			
FH (60°-80°)	3360.3	41.0			G2/5000
FVH (80°-90°)	259.7	3.2			G3/500
BL (0°-30°)	309.2	3.8	B1/500		
BM (30°-60°)	541.0	6.6	B1/1000		
BH (60°-80°)	236.9	2.9	B1/500		G1/500
BVH (80°-90°)	14.9	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2
2.5°	1498.1	1505.5	1501.8	1496.7	1493.5	1490.2	1485.6	1472.2	1461.5	1450.0	1431.9
5°	1509.2	1513.9	1510.6	1504.1	1496.7	1493.5	1484.7	1467.1	1450.0	1430.5	1403.7
7.5°	1502.7	1504.6	1500.9	1493.0	1486.5	1480.5	1470.3	1450.9	1430.1	1406.5	1371.3
10°	1479.6	1486.5	1486.5	1480.1	1473.6	1470.3	1460.2	1441.6	1422.7	1395.8	1354.1
12.5°	1460.6	1468.0	1474.0	1472.2	1471.7	1471.7	1463.9	1450.0	1427.7	1402.3	1352.8
15°	1447.7	1456.5	1469.4	1476.8	1481.5	1482.8	1479.6	1467.6	1444.9	1415.3	1358.3
17.5°	1444.9	1455.5	1479.1	1495.3	1507.4	1506.9	1506.0	1489.3	1464.3	1433.8	1365.3
20°	1457.4	1471.3	1504.1	1529.6	1547.2	1544.0	1538.9	1517.1	1487.9	1453.7	1371.7
22.5°	1494.9	1509.2	1545.3	1573.1	1590.2	1590.2	1575.0	1546.3	1515.2	1476.8	1380.5
25°	1548.6	1564.3	1602.7	1631.0	1638.9	1632.8	1617.6	1582.8	1547.2	1510.2	1399.0
27.5°	1614.3	1633.3	1668.9	1692.6	1690.2	1685.6	1669.9	1625.4	1589.8	1556.0	1430.5
30°	1696.3	1710.2	1747.2	1752.7	1744.4	1743.5	1721.3	1676.8	1643.5	1617.6	1475.4
32.5°	1773.6	1786.1	1815.7	1818.0	1803.2	1805.1	1784.2	1743.5	1724.5	1715.2	1550.9
35°	1855.5	1862.0	1887.5	1884.7	1875.0	1873.6	1865.2	1826.4	1832.4	1849.0	1657.8
37.5°	1924.0	1937.0	1951.4	1953.7	1953.2	1957.8	1963.4	1944.9	1979.6	2031.9	1798.1
40°	1987.0	1998.1	2019.4	2026.8	2044.9	2054.1	2073.1	2073.6	2153.7	2239.8	1970.8
42.5°	2029.6	2048.6	2088.4	2101.8	2145.8	2173.6	2201.8	2231.9	2348.1	2458.7	2174.5
45°	2066.6	2091.6	2157.8	2199.5	2259.2	2293.0	2352.7	2415.7	2582.8	2727.7	2381.4
47.5°	2122.6	2144.9	2220.8	2294.4	2384.7	2423.6	2512.9	2606.9	2825.4	2984.2	2579.6
50°	2200.4	2213.8	2291.2	2411.1	2526.3	2576.3	2694.4	2830.0	3084.7	3237.4	2753.6
52.5°	2300.0	2305.5	2367.1	2526.8	2678.7	2740.7	2897.2	3055.5	3311.5	3457.3	2891.6
55°	2417.5	2408.3	2456.4	2649.5	2852.7	2933.7	3101.8	3283.7	3566.6	3635.1	2992.1
57.5°	2533.7	2519.4	2557.8	2798.6	3067.5	3165.2	3361.0	3518.9	3794.4	3801.3	3062.4
60°	2656.9	2646.2	2692.1	2973.6	3331.0	3446.7	3627.7	3762.9	4014.7	3917.1	3073.6
62.5°	2783.3	2766.1	2831.4	3170.3	3627.7	3732.8	3908.3	4022.1	4230.9	3960.1	2966.6
65°	2906.0	2898.1	2999.0	3404.1	3965.7	4085.1	4255.5	4332.8	4404.1	3895.3	2701.3
67.5°	3036.5	3052.3	3213.4	3716.1	4406.4	4556.4	4740.2	4667.5	4453.6	3588.4	2275.0
70°	3235.6	3245.8	3494.8	4124.9	4974.4	5155.5	5244.3	4786.5	4214.7	3005.5	1710.2
72.5°	3321.2	3366.1	3746.2	4554.1	5619.8	5730.4	5413.8	4521.2	3511.0	2041.6	898.6
73°	3302.3	3356.0	3757.8	4619.4	5670.3	5786.5	5377.7	4384.6	3263.8	1758.3	770.4
75°	3065.7	3131.9	3607.3	4564.7	5572.1	5502.7	4797.1	3737.0	2205.5	799.5	350.9
77.5°	2418.9	2437.9	2858.3	3686.0	4387.9	4259.2	3590.2	2335.6	900.9	297.2	199.1
80°	1213.4	1283.3	1611.1	2111.5	2934.2	2892.1	2266.2	1104.6	375.5	174.5	131.9
82.5°	583.8	633.3	784.7	1029.6	1621.3	1582.8	1122.2	603.7	238.4	101.8	77.8
85°	375.9	413.0	499.5	491.2	666.7	636.6	504.2	456.9	141.2	53.2	54.2
87.5°	248.1	271.8	325.9	260.6	242.6	219.4	222.7	257.4	27.8	20.4	7.4
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°	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2	1440.2
2.5°	1424.5	1418.5	1398.6	1379.1	1360.6	1343.0	1331.5	1316.2	1306.0	1308.8	1312.9
5°	1388.9	1375.4	1340.3	1306.0	1273.6	1235.2	1204.1	1179.1	1160.2	1153.2	1151.8
7.5°	1351.4	1328.7	1278.2	1219.4	1164.3	1116.6	1061.6	1034.2	1002.3	991.2	987.5
10°	1328.7	1298.1	1227.3	1145.3	1062.5	983.3	923.6	875.0	831.0	822.7	818.5
12.5°	1322.2	1281.9	1186.6	1081.0	970.8	873.6	785.2	721.3	678.7	669.0	654.6
15°	1318.5	1268.5	1148.6	1016.2	876.4	757.9	664.8	590.3	551.4	525.5	525.9
17.5°	1315.3	1253.2	1106.0	945.4	794.9	658.3	555.5	488.4	452.8	438.9	437.5
20°	1310.6	1235.2	1056.9	870.8	701.8	567.6	474.5	424.5	400.5	388.9	388.4
22.5°	1308.8	1217.6	1008.8	794.9	619.4	497.7	420.8	385.6	370.4	362.5	362.5
25°	1313.4	1205.1	958.3	722.7	546.3	438.0	383.8	359.7	350.9	346.8	345.4
27.5°	1327.8	1199.5	908.3	650.5	479.2	397.2	358.8	342.1	335.6	332.4	332.9
30°	1355.1	1199.1	859.2	579.2	429.2	366.2	338.9	327.3	322.2	320.4	319.9
32.5°	1399.0	1209.2	811.1	520.4	387.0	340.3	320.4	312.0	309.7	308.3	307.9
35°	1473.6	1237.9	763.4	466.7	354.6	317.1	302.8	298.6	295.4	296.8	297.2
37.5°	1574.0	1287.5	718.0	424.5	330.1	300.0	288.0	284.3	282.4	283.8	285.2
40°	1708.8	1358.8	680.1	390.7	312.5	285.6	275.0	271.8	269.9	272.2	272.7
42.5°	1857.4	1441.2	648.6	364.3	298.1	273.6	263.4	259.7	258.3	259.7	260.2
45°	2010.1	1537.0	632.4	345.4	286.1	264.8	254.2	250.0	246.8	245.8	247.2
47.5°	2160.6	1620.3	631.9	333.8	276.4	256.9	245.4	240.7	236.6	234.3	233.8
50°	2283.3	1686.5	643.0	328.7	268.1	248.1	236.6	231.9	226.4	221.8	222.7
52.5°	2375.9	1729.6	648.1	326.4	263.4	238.9	227.3	223.1	216.7	210.6	210.6
55°	2435.6	1739.8	635.6	324.1	259.7	229.2	216.7	213.0	206.5	200.5	200.5
57.5°	2456.0	1708.3	590.7	318.5	256.0	220.8	206.0	202.8	197.7	191.7	190.7
60°	2408.7	1601.8	512.0	301.8	248.6	212.0	194.4	193.1	191.2	186.1	185.6
62.5°	2226.8	1375.9	426.4	280.1	236.1	202.8	183.8	186.1	187.5	184.7	184.3
65°	1924.0	1117.1	364.3	250.0	219.4	189.8	172.2	178.2	181.9	181.9	181.0
67.5°	1560.6	857.9	306.9	224.1	198.6	172.2	159.3	163.9	166.7	165.7	168.1
70°	1109.2	581.0	250.0	194.4	172.2	152.3	142.6	142.6	140.7	139.8	139.8
72.5°	538.0	331.9	202.8	162.5	146.8	130.1	122.2	119.0	115.3	114.8	112.5
73°	449.5	297.7	193.5	156.5	140.7	126.8	118.1	113.0	110.6	108.8	108.3
75°	273.6	225.9	161.6	131.9	119.9	109.3	101.4	96.8	94.4	93.1	92.6
77.5°	180.1	168.5	125.5	100.9	91.7	85.2	81.9	77.3	75.9	74.1	74.1
80°	134.3	128.7	89.8	71.3	65.7	60.2	59.3	58.3	54.6	52.3	51.4
82.5°	86.6	91.7	61.1	47.7	41.7	37.0	37.5	38.9	35.2	31.9	31.0
85°	61.6	66.2	37.0	21.8	17.6	15.3	17.1	15.3	15.7	12.5	10.2
87.5°	10.2	17.6	6.5	2.8	1.4	0.9	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)