

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: P451169

Luminaire Tested: **GALN-SA2A-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
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-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8305 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

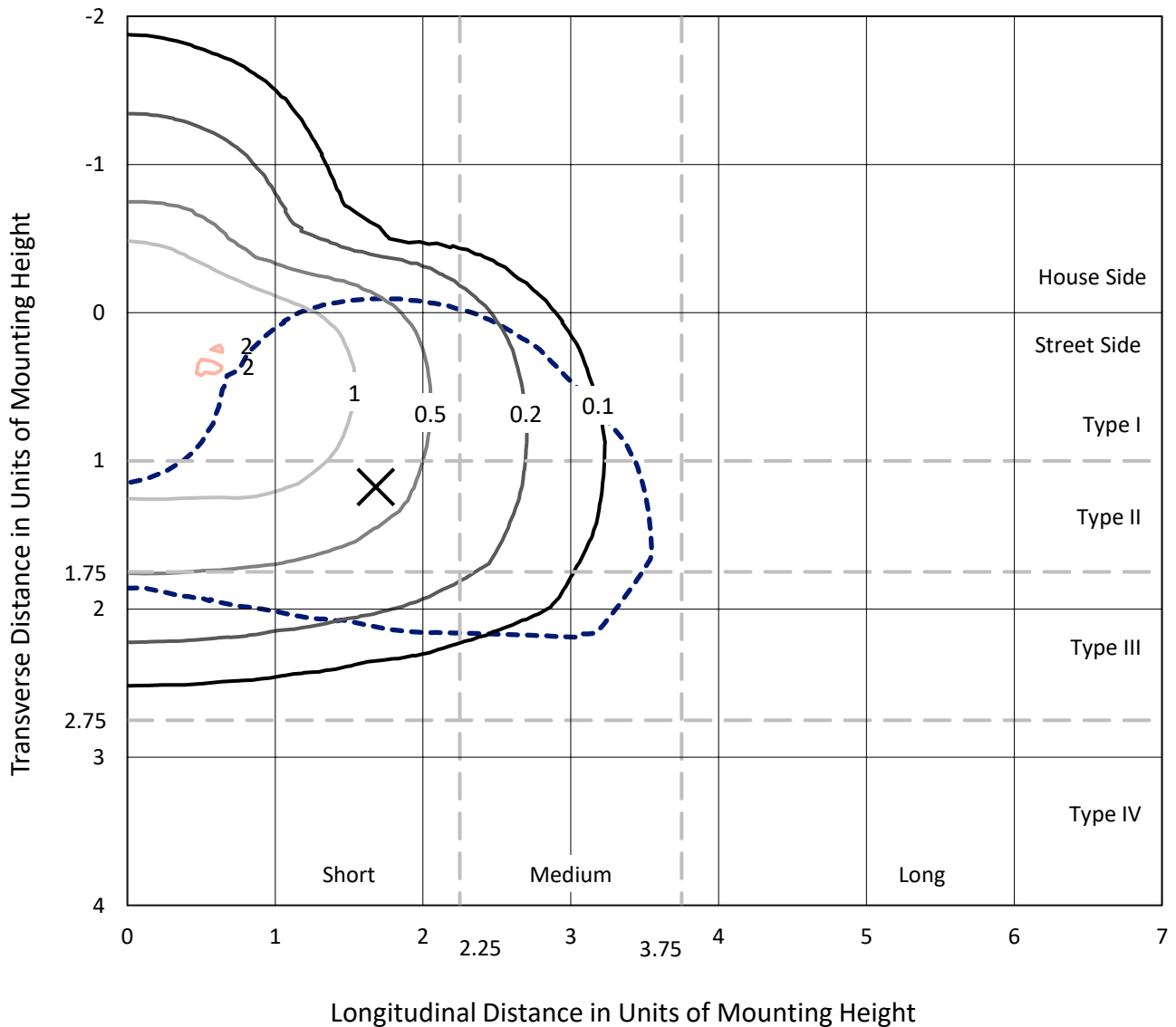
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451169  
 CATALOG NUMBER: GALN-SA2A-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

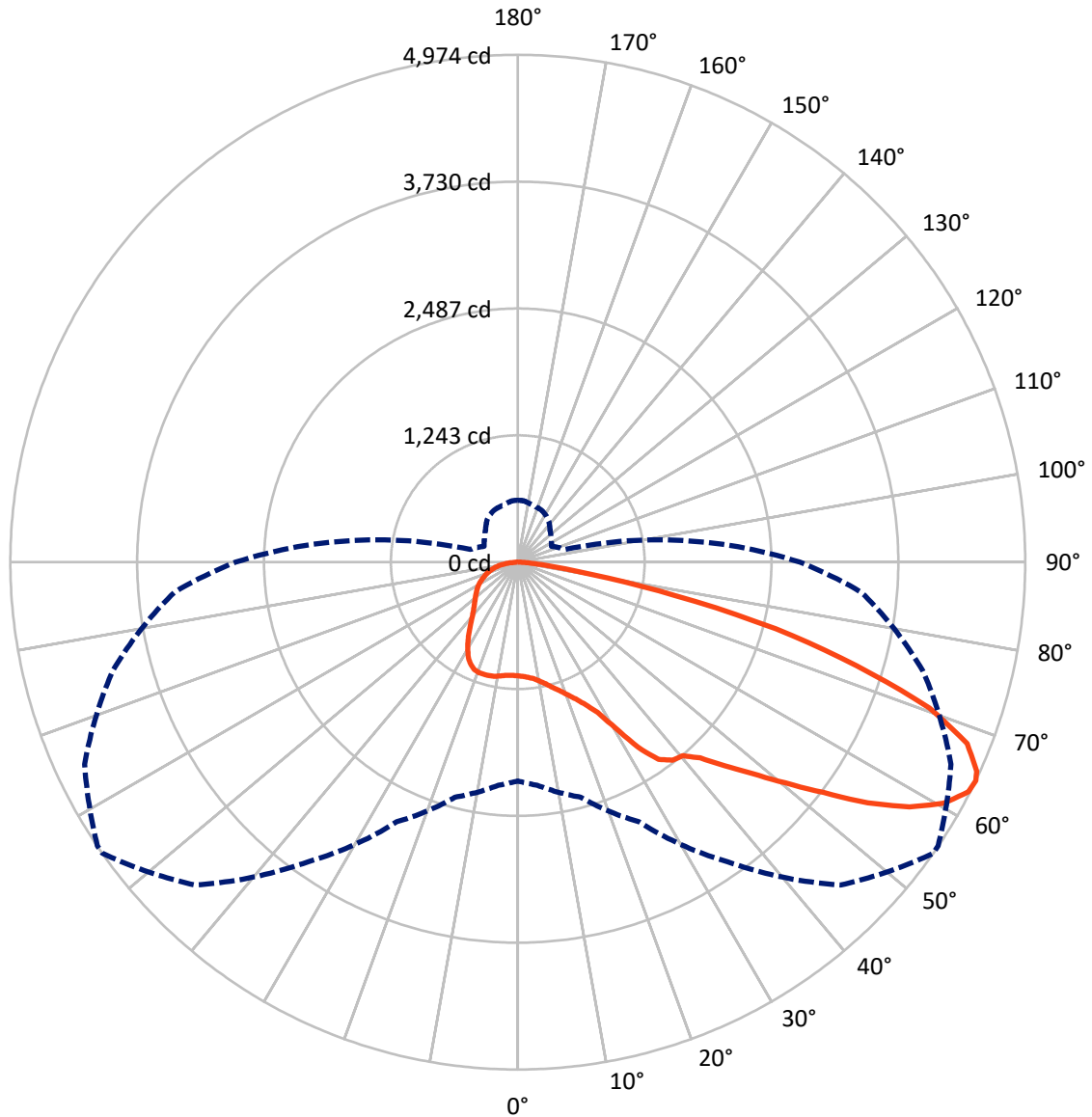
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Short - N/A

REPORT NUMBER: P451169  
CATALOG NUMBER: GALN-SA2A-730-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P451169

CATALOG NUMBER: GALN-SA2A-730-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2017.5	0.0	2017.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	6287.5	0.0	6287.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	8305.0	0.0	8305.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.4	1.3
10°-20°	342.0	4.1
20°-30°	608.9	7.3
30°-40°	936.8	11.3
40°-50°	1328.0	16.0
50°-60°	1922.2	23.1
60°-70°	1989.3	24.0
70°-80°	931.6	11.2
80°-90°	137.9	1.7
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°	8305.0	100.0
0°-180°	8305.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451169

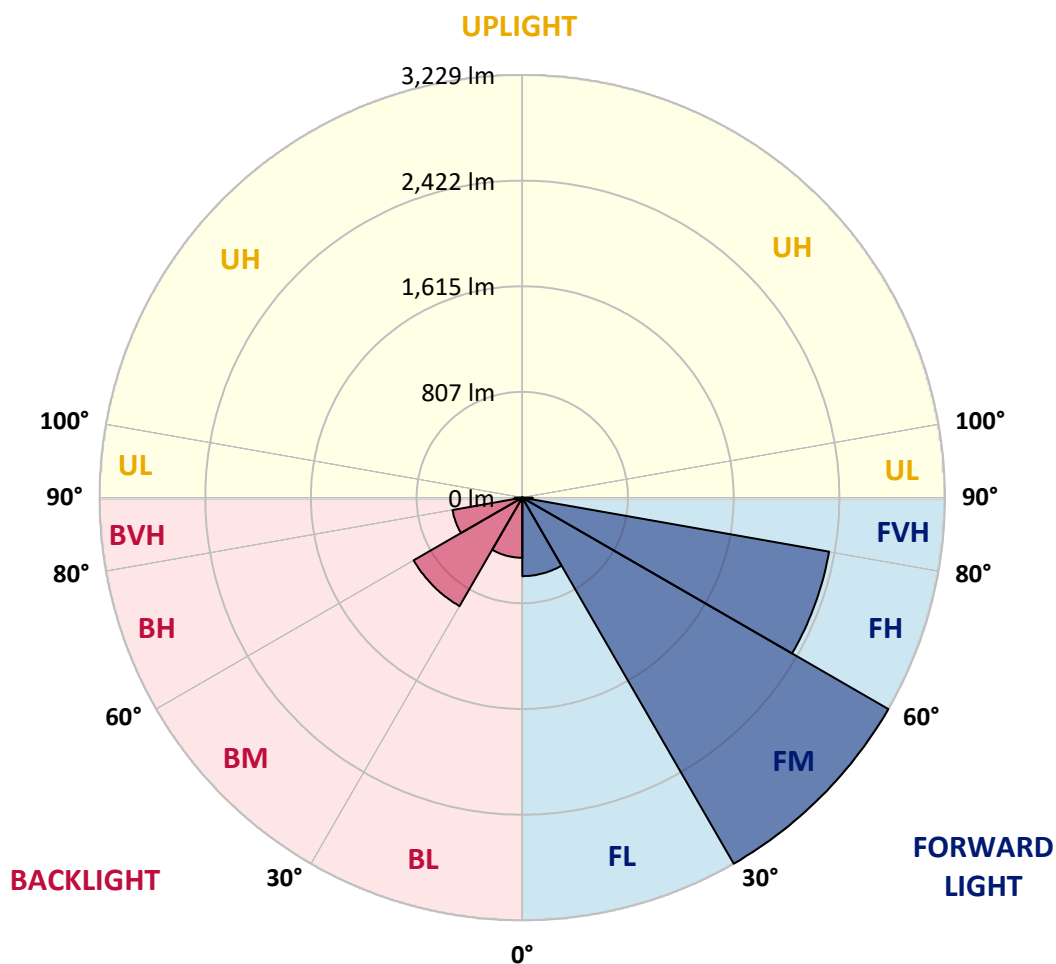
CATALOG NUMBER: GALN-SA2A-730-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.8	7.2			
FM (30°-60°)	3229.2	38.9			
FH (60°-80°)	2379.6	28.7			G2/5000
FVH (80°-90°)	79.0	1.0			G1/100
BL (0°-30°)	459.5	5.5	B1/500		
BM (30°-60°)	957.8	11.5	B1/1000		
BH (60°-80°)	541.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	59.0	0.7			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 Short





REPORT NUMBER: P451169

CATALOG NUMBER: GALN-SA2A-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1126.8	1126.3	1127.7	1126.3	1127.2	1124.0	1122.6	1123.5	1122.2	1119.8	1115.7
5°	1140.7	1140.2	1140.7	1138.8	1139.7	1137.9	1134.6	1135.6	1133.3	1128.2	1122.2
7.5°	1164.3	1162.4	1162.4	1162.0	1160.1	1157.3	1155.0	1154.1	1151.8	1145.3	1136.0
10°	1194.8	1194.8	1195.3	1191.6	1193.9	1188.8	1186.5	1186.0	1178.2	1169.8	1156.9
12.5°	1235.1	1237.4	1236.0	1234.2	1233.3	1231.4	1223.5	1225.4	1216.6	1202.2	1186.5
15°	1285.1	1288.8	1286.5	1285.6	1283.3	1276.3	1273.1	1271.7	1260.1	1239.3	1218.4
17.5°	1351.3	1346.7	1344.8	1342.5	1332.8	1327.7	1322.1	1321.2	1311.0	1286.5	1254.1
20°	1409.2	1415.6	1411.9	1409.6	1399.9	1390.2	1386.0	1384.6	1375.8	1349.0	1297.1
22.5°	1478.1	1479.5	1480.9	1475.4	1470.7	1463.3	1455.9	1453.6	1450.4	1422.6	1359.2
25°	1551.8	1557.3	1552.7	1547.1	1541.6	1541.1	1548.0	1547.1	1545.7	1518.9	1441.6
27.5°	1671.7	1676.7	1678.1	1672.1	1650.8	1652.7	1668.4	1673.5	1694.8	1650.4	1547.6
30°	1739.2	1744.3	1755.9	1778.6	1812.4	1842.0	1880.0	1891.5	1911.9	1828.1	1673.5
32.5°	1780.9	1782.8	1803.6	1845.7	1947.1	2057.7	2161.0	2165.1	2178.1	2060.5	1788.8
35°	1846.6	1848.0	1864.7	1911.0	2030.0	2214.2	2373.9	2379.0	2368.4	2132.7	1842.5
37.5°	1927.7	1931.4	1942.0	1980.4	2122.5	2345.2	2462.3	2458.6	2364.2	2190.1	1937.4
40°	2045.7	2045.7	2033.2	2085.1	2220.2	2420.2	2493.4	2486.9	2461.9	2356.3	2081.8
42.5°	2149.9	2148.0	2177.6	2212.8	2342.4	2535.9	2623.4	2634.1	2675.3	2565.1	2246.2
45°	2285.5	2293.8	2310.5	2374.4	2550.3	2733.6	2846.6	2856.8	2915.1	2810.9	2438.3
47.5°	2422.5	2425.3	2477.6	2562.8	2807.7	3001.7	3094.2	3110.9	3164.1	3098.4	2645.2
50°	2519.7	2546.1	2629.9	2764.2	3073.0	3328.5	3400.7	3420.6	3514.6	3411.4	2886.4
52.5°	2622.5	2648.4	2750.7	2955.4	3377.6	3662.7	3751.6	3765.0	3862.7	3728.0	3133.1
55°	2710.5	2734.5	2850.7	3124.8	3620.1	4003.9	4165.0	4149.3	4196.0	3972.0	3323.4
57.5°	2724.8	2744.3	2890.6	3233.1	3802.5	4296.5	4527.5	4536.7	4482.6	4154.4	3480.3
60°	2613.7	2653.5	2821.6	3221.6	3884.5	4500.2	4797.8	4804.3	4650.6	4247.9	3542.8
62.5°	2417.0	2412.8	2616.0	3035.5	3769.7	4546.5	4957.1	4950.1	4716.4	4203.0	3482.2
64°	2145.2	2195.2	2385.0	2806.8	3584.5	4475.2	4973.8	4970.1	4684.9	4109.5	3378.9
65°	1979.5	1976.7	2164.2	2619.7	3400.2	4367.8	4944.1	4939.0	4619.1	4025.7	3298.9
67.5°	1429.1	1435.6	1620.7	2021.6	2764.2	3947.9	4751.1	4732.1	4359.9	3747.9	2994.3
70°	865.7	869.4	1014.7	1341.1	1984.1	3191.5	4282.6	4283.5	3963.2	3333.1	2548.4
72.5°	456.0	465.7	524.0	761.5	1205.0	2239.2	3474.3	3556.7	3402.6	2844.7	2013.3
75°	253.7	255.1	296.3	375.4	614.8	1253.2	2611.4	2635.0	2693.8	2289.7	1488.8
77.5°	193.5	196.3	209.2	242.6	334.7	581.0	1580.5	1699.0	1898.5	1614.2	849.5
80°	156.9	159.7	170.8	190.7	222.7	275.4	734.2	798.1	1016.1	716.6	331.5
82.5°	122.2	120.4	134.7	147.7	162.0	163.0	301.4	333.3	413.9	308.3	143.5
85°	90.7	90.7	102.3	99.5	104.6	95.4	132.9	146.7	165.7	131.0	66.7
87.5°	36.1	39.8	67.1	60.2	46.8	37.5	49.1	51.8	57.4	51.4	27.8
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: P451169  
 CATALOG NUMBER: GALN-SA2A-730-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1116.1	1117.5	1114.3	1112.0	1111.0	1109.7	1108.3	1108.7	1110.6	1112.4	1112.0
5°	1121.7	1122.2	1116.6	1113.8	1112.0	1110.1	1110.1	1111.5	1115.2	1118.0	1118.0
7.5°	1135.6	1135.6	1127.7	1122.6	1119.8	1116.6	1115.7	1116.1	1118.9	1122.6	1123.1
10°	1157.3	1155.5	1145.3	1137.4	1132.3	1124.5	1117.5	1113.8	1115.2	1117.5	1117.5
12.5°	1183.7	1178.6	1165.7	1155.0	1142.5	1127.7	1113.4	1105.9	1105.5	1107.8	1106.9
15°	1212.0	1206.4	1188.3	1168.9	1147.1	1125.4	1108.3	1097.6	1089.3	1087.0	1092.1
17.5°	1244.8	1233.3	1208.3	1181.4	1149.0	1120.8	1093.9	1072.2	1057.3	1053.2	1054.6
20°	1284.6	1269.4	1235.6	1193.4	1147.6	1104.1	1062.4	1033.3	1009.2	1001.8	1002.7
22.5°	1339.7	1313.3	1263.8	1199.5	1136.0	1072.6	1014.7	976.8	947.6	936.1	943.0
25°	1402.2	1373.5	1290.7	1198.1	1105.9	1022.2	958.3	908.7	882.4	865.2	868.9
27.5°	1488.3	1437.4	1319.4	1185.6	1062.9	960.6	886.5	839.8	815.7	806.9	811.1
30°	1598.5	1520.3	1350.4	1151.8	994.8	882.8	814.3	783.7	769.4	758.3	762.0
32.5°	1678.1	1578.6	1357.3	1094.8	921.2	812.0	765.2	742.5	726.8	716.2	718.5
35°	1735.1	1628.1	1354.1	1024.9	844.4	753.7	726.3	707.8	682.4	659.2	655.1
37.5°	1811.5	1690.2	1330.5	948.6	768.5	714.3	694.9	660.6	624.0	593.0	591.6
40°	1928.6	1762.8	1280.0	858.7	703.7	685.1	661.5	617.1	577.7	552.7	550.9
42.5°	2049.4	1830.0	1211.5	764.3	650.4	654.6	625.9	581.9	557.8	541.6	539.8
45°	2197.1	1902.7	1137.4	682.4	611.1	625.9	594.9	569.4	555.1	544.4	541.6
47.5°	2356.8	1977.2	1054.1	608.8	577.7	599.5	581.9	570.3	562.5	555.1	551.8
50°	2529.0	2060.5	975.9	549.5	547.7	572.2	580.5	576.4	571.7	569.4	566.6
52.5°	2717.9	2145.7	910.1	507.8	521.3	552.7	581.0	584.2	584.2	582.8	581.0
55°	2845.7	2205.0	843.5	474.0	494.4	537.0	580.1	592.6	597.2	595.3	593.5
57.5°	2940.1	2237.4	759.7	444.9	471.7	521.7	575.0	593.5	598.1	600.4	599.5
60°	2959.5	2207.3	650.0	414.3	447.2	499.5	556.4	579.6	585.6	600.0	601.4
62.5°	2872.0	2114.7	540.7	384.2	417.1	465.7	531.4	563.9	575.9	598.1	600.4
64°	2764.6	2011.0	480.1	365.3	397.7	446.7	518.9	559.7	575.4	605.1	606.9
65°	2685.9	1935.5	442.1	353.2	385.2	434.2	512.0	561.1	579.6	615.7	618.5
67.5°	2396.1	1675.8	365.7	325.0	355.5	412.9	513.4	572.6	578.7	619.9	619.4
70°	1982.7	1334.2	306.5	299.1	326.8	395.8	507.8	554.1	554.6	581.9	575.4
72.5°	1484.6	986.0	265.7	272.2	294.9	355.1	479.6	529.1	521.3	525.0	518.5
75°	1019.8	652.3	228.7	243.5	261.6	313.9	439.8	480.5	468.0	463.4	458.8
77.5°	544.4	360.6	190.3	215.3	227.3	271.3	383.8	423.1	410.2	392.1	386.1
80°	220.4	169.9	153.2	178.2	185.2	218.5	319.4	344.0	334.2	302.8	292.6
82.5°	110.6	101.8	120.4	140.3	140.7	156.0	237.5	260.6	238.9	200.5	191.7
85°	57.9	59.7	82.9	98.6	87.0	84.3	142.6	157.9	144.9	125.9	113.4
87.5°	20.8	24.1	43.5	43.1	30.6	16.2	31.5	15.3	8.3	5.1	6.5
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)