

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: P522660

Luminaire Tested: **GALN-SA2B-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10429 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

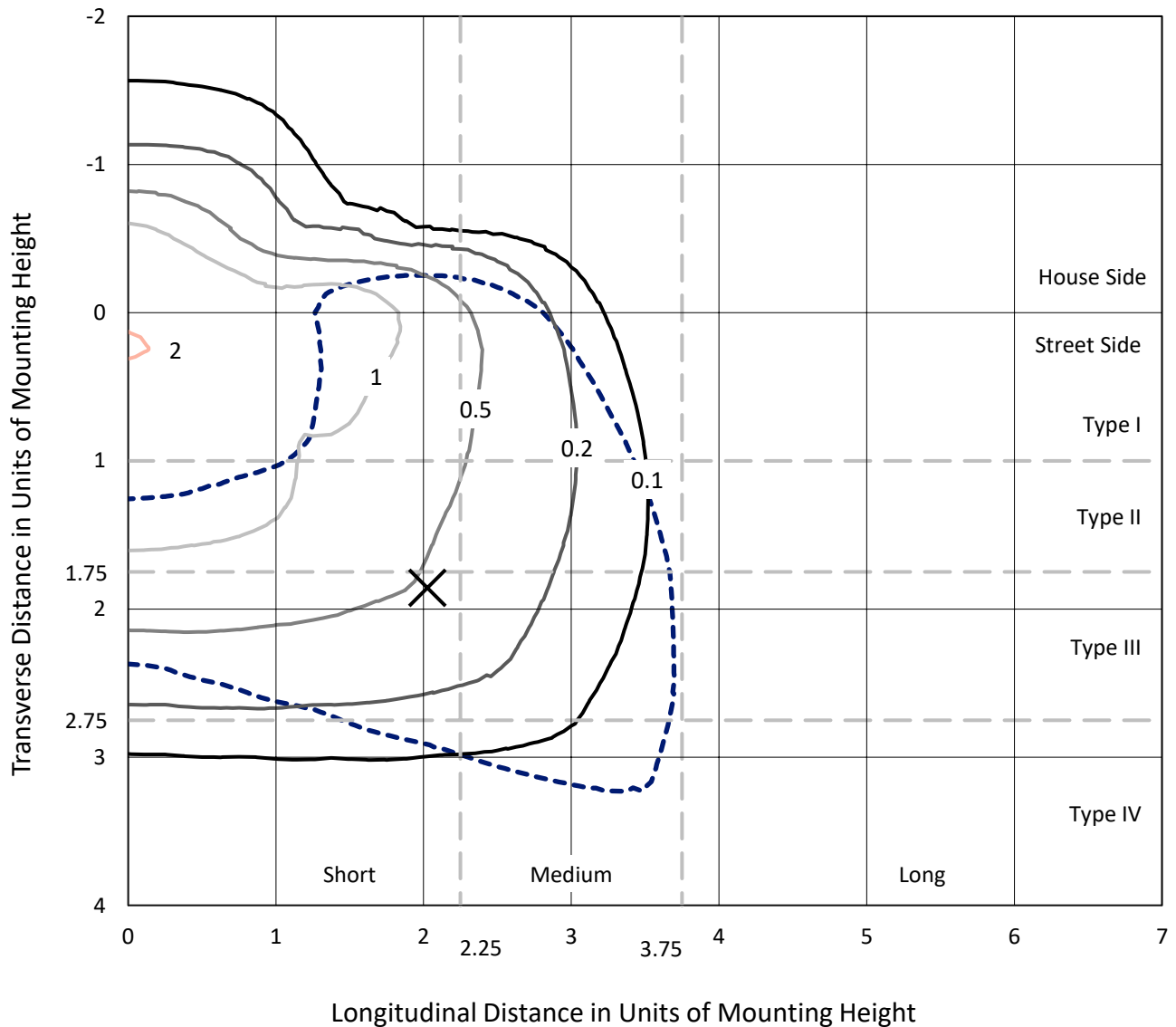
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

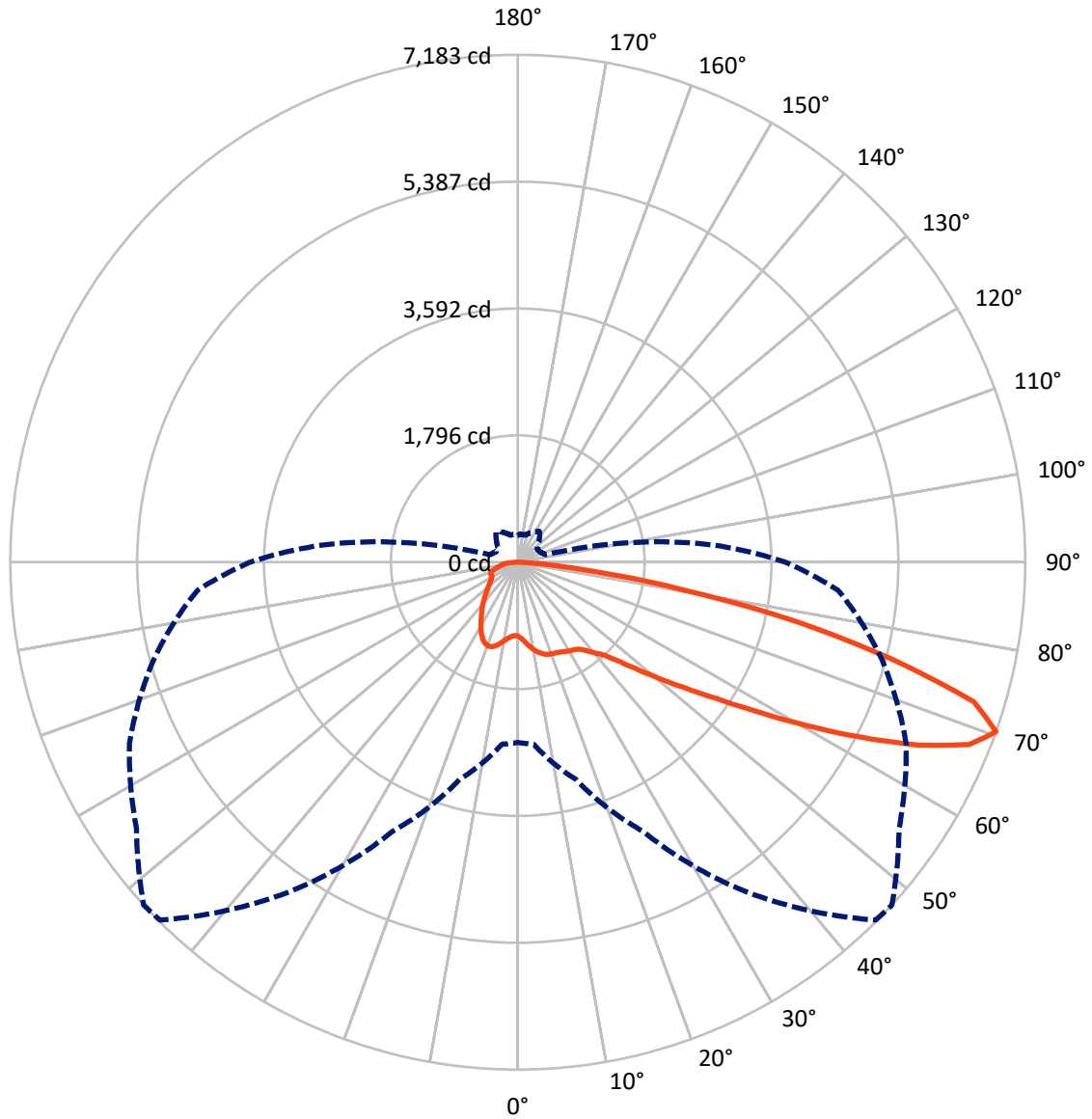
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2361.3	0.0	2361.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8067.7	0.0	8067.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	10429.0	0.0	10429.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	1.0
10°-20°	360.8	3.5
20°-30°	600.0	5.8
30°-40°	850.4	8.2
40°-50°	1255.3	12.0
50°-60°	2174.3	20.8
60°-70°	3071.2	29.4
70°-80°	1765.5	16.9
80°-90°	243.6	2.3
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°	10429.0	100.0
0°-180°	10429.0	100.0

**Coefficient of Utilization**



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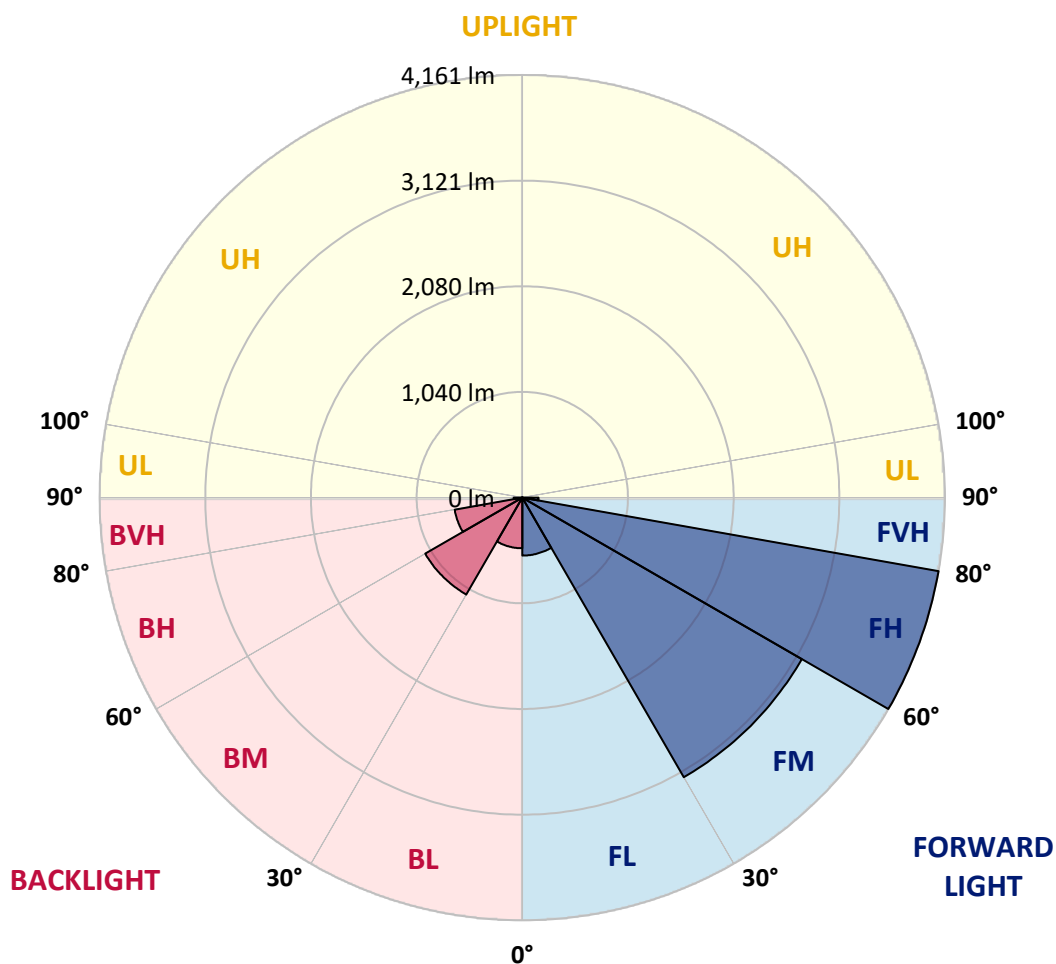
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.3	5.5			
FM	(30°-60°)	3177.5	30.5			
FH	(60°-80°)	4160.7	39.9			G2/5000
FVH	(80°-90°)	159.1	1.5			G2/225
BL	(0°-30°)	498.4	4.8	B1/500		
BM	(30°-60°)	1102.5	10.6	B2/2500		
BH	(60°-80°)	676.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	84.5	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9
2.5°	1114.5	1110.6	1110.0	1101.6	1097.2	1088.8	1085.5	1077.6	1068.2	1058.7	1049.7
5°	1202.1	1202.1	1198.2	1186.5	1168.0	1149.1	1140.7	1125.6	1098.8	1077.1	1058.7
7.5°	1291.9	1293.1	1285.2	1267.9	1241.7	1211.0	1203.2	1180.9	1142.9	1111.1	1083.8
10°	1369.5	1369.5	1358.9	1335.5	1302.5	1269.1	1261.2	1236.1	1193.7	1154.1	1118.4
12.5°	1428.7	1428.7	1414.7	1384.0	1348.3	1318.2	1309.2	1285.2	1245.6	1201.5	1156.3
15°	1467.2	1464.4	1448.8	1414.2	1379.6	1353.3	1347.2	1327.1	1290.8	1246.2	1195.4
17.5°	1468.8	1467.7	1452.7	1423.6	1393.5	1375.7	1371.7	1358.4	1329.9	1287.5	1233.9
20°	1436.5	1438.7	1428.7	1408.0	1393.5	1385.7	1384.0	1379.6	1359.5	1319.8	1266.3
22.5°	1401.9	1405.8	1396.3	1385.1	1384.0	1391.8	1393.0	1394.1	1381.2	1342.7	1293.6
25°	1393.5	1396.3	1386.8	1376.8	1382.9	1403.6	1408.0	1412.5	1402.4	1370.1	1326.0
27.5°	1435.9	1433.7	1415.3	1393.5	1397.4	1425.3	1431.5	1436.5	1431.5	1403.6	1366.2
30°	1555.9	1548.7	1511.8	1448.2	1428.1	1447.6	1453.8	1467.7	1467.7	1447.1	1409.7
32.5°	1756.8	1742.9	1675.3	1550.3	1480.6	1468.8	1475.0	1497.9	1509.6	1493.4	1452.7
35°	2000.7	1986.2	1889.6	1721.7	1576.6	1511.3	1509.6	1535.3	1566.5	1530.2	1477.2
37.5°	2245.7	2230.6	2114.5	1925.9	1716.6	1600.6	1590.5	1599.4	1612.8	1546.4	1511.3
40°	2490.7	2472.8	2371.3	2154.2	1888.0	1718.9	1692.6	1652.5	1646.9	1599.4	1577.1
42.5°	2733.4	2717.3	2665.9	2410.3	2093.3	1834.4	1794.2	1725.0	1746.2	1717.8	1698.2
45°	2978.4	2979.6	2924.9	2697.7	2341.1	2047.6	1993.4	1885.2	1935.4	1924.8	1936.0
47.5°	3195.5	3192.7	3173.2	2976.8	2648.6	2322.1	2252.4	2126.8	2212.8	2251.8	2337.2
50°	3405.9	3404.2	3405.4	3293.2	3005.8	2648.6	2571.6	2439.9	2633.5	2769.2	2922.1
52.5°	3707.3	3716.8	3649.2	3619.7	3440.0	3034.2	2949.4	2813.2	3130.8	3344.5	3643.1
55°	4009.8	4001.9	3948.9	3979.6	3894.2	3490.8	3402.0	3293.8	3684.4	3918.2	4366.9
57.5°	4187.8	4190.6	4244.7	4394.8	4455.1	4060.0	3979.6	3895.9	4306.7	4472.4	5010.9
60°	4348.0	4360.8	4516.5	4800.0	4963.5	4759.3	4687.8	4606.3	4877.6	4943.4	5570.1
62.5°	4398.2	4437.8	4709.6	5133.7	5459.1	5548.4	5459.6	5279.9	5421.1	5395.5	5949.1
65°	4147.6	4201.7	4688.9	5258.7	5901.6	6297.3	6240.9	5907.2	5884.3	5729.7	6011.0
67.5°	3488.0	3542.1	4167.7	4996.4	6084.7	6945.8	6889.4	6364.8	6165.6	5761.0	5542.2
70°	2552.1	2586.1	3184.4	4206.8	5716.9	7163.4	7183.0	6588.1	6065.1	5336.3	4550.5
72.5°	1470.5	1545.9	1965.0	2959.5	4670.5	6613.2	6748.8	6123.7	5430.1	4451.8	3181.6
75°	632.3	634.0	908.5	1632.4	3163.2	5315.7	5446.8	5076.2	4264.2	3078.3	1698.8
77.5°	300.8	306.4	399.6	728.8	1741.2	3672.7	4026.5	3586.2	2727.3	1478.9	641.8
80°	195.3	199.2	244.4	361.6	853.9	2129.6	2376.3	2068.8	1203.2	528.5	276.8
82.5°	118.3	119.4	163.5	221.0	469.9	964.4	1136.8	897.9	513.4	316.4	163.0
85°	72.0	72.5	99.3	136.7	285.2	333.2	342.1	339.3	301.4	207.0	87.1
87.5°	34.6	35.7	51.3	64.7	112.2	103.2	97.7	113.3	142.3	111.6	37.4
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°	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9
2.5°	1045.8	1044.2	1040.2	1038.6	1037.5	1038.0	1037.5	1037.5	1038.0	1038.0	1038.0
5°	1050.9	1048.1	1041.9	1041.9	1045.3	1053.1	1060.3	1065.9	1072.1	1071.5	1071.5
7.5°	1072.6	1067.6	1060.3	1062.6	1070.9	1083.2	1096.1	1108.3	1120.6	1121.7	1121.2
10°	1104.4	1099.4	1091.6	1094.4	1107.8	1126.2	1142.4	1160.2	1173.6	1177.5	1176.4
12.5°	1140.7	1130.7	1124.0	1131.8	1153.0	1177.5	1193.2	1206.6	1216.0	1221.6	1219.4
15°	1177.5	1168.0	1160.2	1176.4	1202.1	1225.0	1232.8	1235.0	1236.7	1242.3	1241.2
17.5°	1213.3	1200.4	1197.6	1218.8	1243.4	1253.4	1249.0	1239.5	1232.2	1236.7	1236.1
20°	1245.1	1235.0	1233.9	1255.1	1264.6	1255.1	1236.1	1219.4	1206.6	1207.7	1207.1
22.5°	1275.2	1267.4	1268.5	1277.4	1262.4	1230.0	1198.7	1175.9	1161.9	1164.7	1166.4
25°	1308.7	1300.9	1303.7	1289.2	1239.5	1183.1	1137.9	1118.4	1112.8	1118.4	1122.3
27.5°	1352.2	1347.2	1345.5	1289.7	1198.7	1113.9	1062.6	1055.3	1060.3	1072.6	1078.8
30°	1399.1	1399.1	1390.2	1280.2	1142.9	1030.8	986.1	987.2	1004.5	1021.8	1028.0
32.5°	1444.3	1453.8	1425.9	1254.5	1070.9	949.8	915.8	916.9	932.0	953.2	958.8
35°	1481.7	1509.0	1456.6	1207.7	986.1	881.8	856.1	841.0	841.6	857.8	862.2
37.5°	1533.0	1583.8	1474.4	1137.9	895.7	823.7	794.7	768.5	751.2	744.5	744.5
40°	1622.3	1697.1	1478.9	1034.7	810.3	768.5	727.2	695.9	662.4	632.3	626.7
42.5°	1773.6	1867.9	1470.0	915.8	733.3	707.6	667.5	628.9	582.6	540.2	536.9
45°	2041.4	2090.0	1446.0	792.5	664.7	649.0	610.0	568.1	519.0	481.1	478.3
47.5°	2470.6	2401.9	1414.2	683.1	602.2	597.7	567.6	519.0	469.9	443.7	440.9
50°	3097.3	2893.1	1409.7	603.8	551.9	554.2	529.6	485.0	442.0	420.2	416.9
52.5°	3851.8	3486.3	1439.3	548.0	507.8	516.2	503.9	462.6	424.7	406.3	402.9
55°	4584.0	4019.8	1457.1	504.5	466.5	482.2	483.8	449.2	414.6	396.2	394.0
57.5°	5178.4	4421.6	1377.9	464.9	430.8	454.8	467.1	441.4	409.6	395.7	393.4
60°	5591.9	4611.4	1152.4	429.7	404.6	433.1	461.0	442.0	421.9	423.6	424.7
62.5°	5723.6	4527.1	864.5	403.5	386.7	425.8	471.0	464.9	444.2	457.1	459.3
65°	5505.4	4178.9	626.7	382.8	371.1	430.8	501.2	481.6	436.4	445.9	445.9
67.5°	4774.9	3600.1	487.8	363.9	353.3	440.3	531.3	479.9	418.0	429.2	419.1
70°	3787.6	2784.8	406.3	342.7	334.3	426.4	534.1	462.6	396.2	398.5	379.5
72.5°	2513.6	1831.0	349.4	322.6	305.3	383.4	511.2	440.3	375.0	362.2	343.2
75°	1231.7	913.0	304.7	297.5	267.3	333.7	479.9	419.1	352.1	332.1	321.5
77.5°	477.2	388.4	260.1	265.6	232.7	294.1	438.6	389.0	322.0	294.7	286.3
80°	231.6	220.4	213.2	221.6	191.4	250.6	400.7	362.7	294.1	264.0	251.7
82.5°	144.0	136.2	163.5	172.4	147.3	228.8	380.0	340.4	258.9	218.8	208.7
85°	73.1	78.1	109.4	117.8	105.5	181.9	313.1	255.6	187.0	155.1	156.3
87.5°	27.9	37.4	57.5	61.9	56.4	96.0	172.4	149.0	120.0	81.5	75.3
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)