

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: P451376

Luminaire Tested: **GALN-SA2B-727-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9549 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

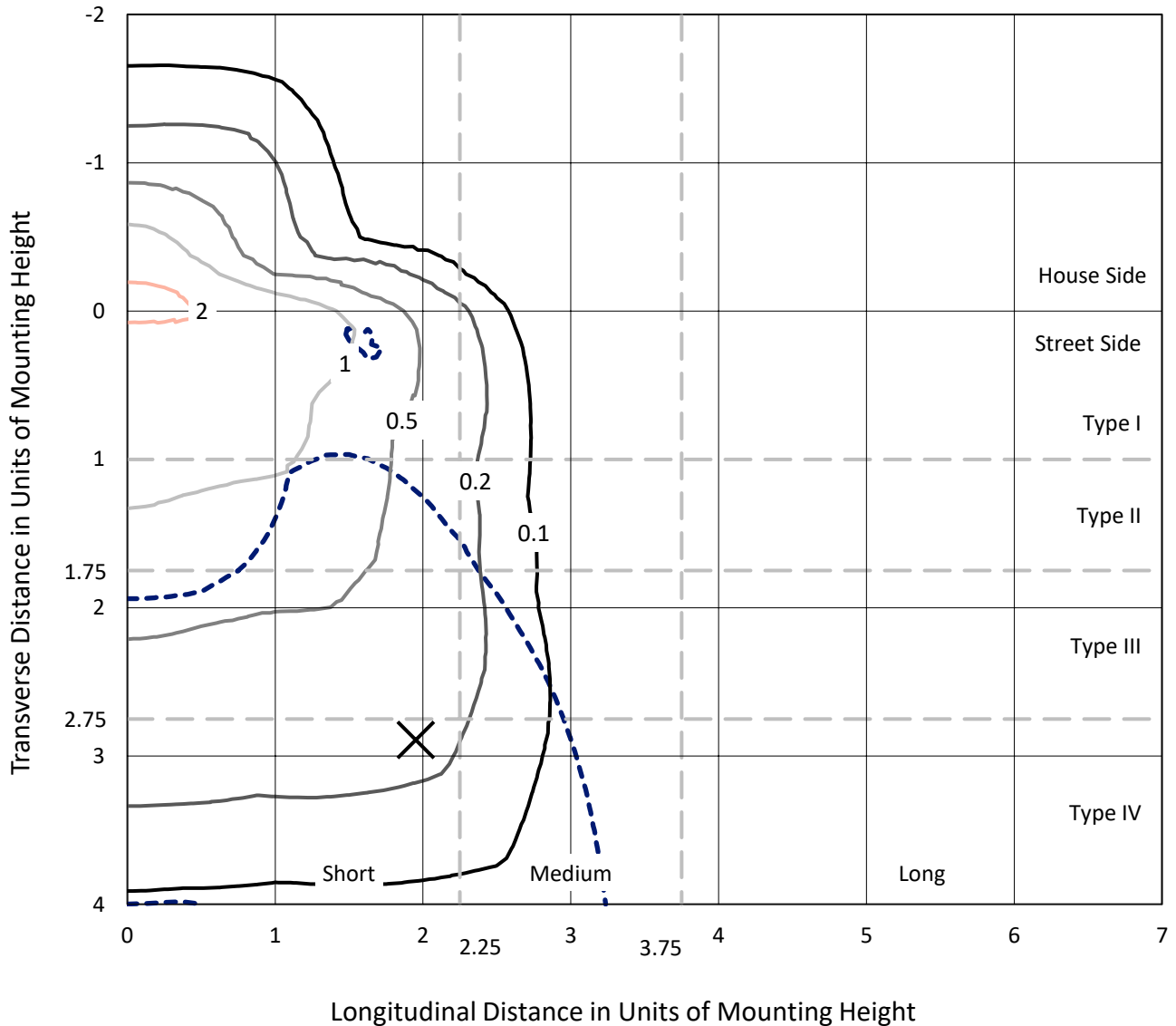
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

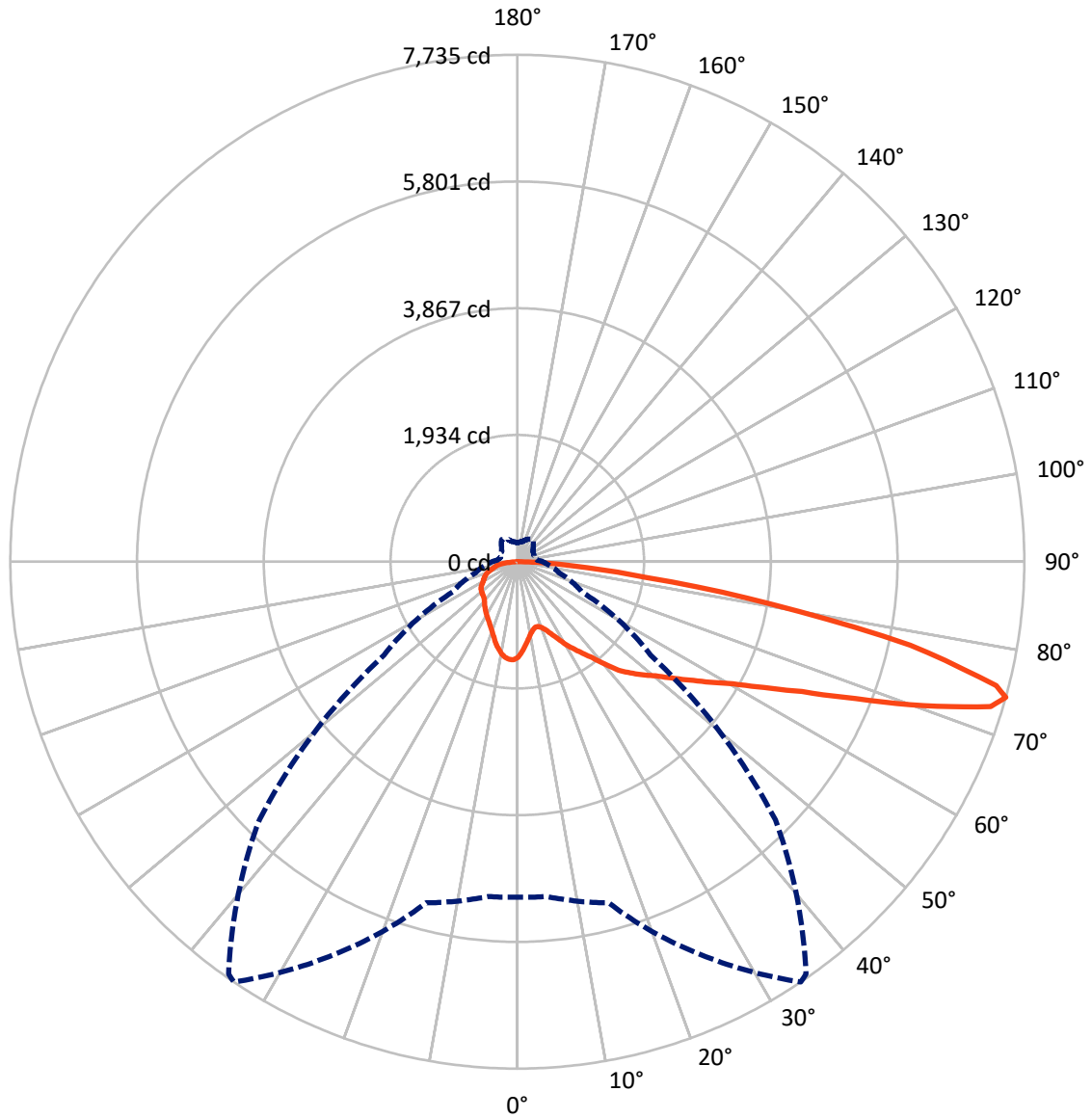
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2032.1	0.0	2032.1
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	7516.9	0.0	7516.9
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	9549.0	0.0	9549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.6	1.4
10°-20°	363.0	3.8
20°-30°	598.4	6.3
30°-40°	896.4	9.4
40°-50°	1303.1	13.6
50°-60°	1820.1	19.1
60°-70°	2278.7	23.9
70°-80°	1884.3	19.7
80°-90°	272.3	2.9
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°	9549.0	100.0
0°-180°	9549.0	100.0

**Coefficient of Utilization**



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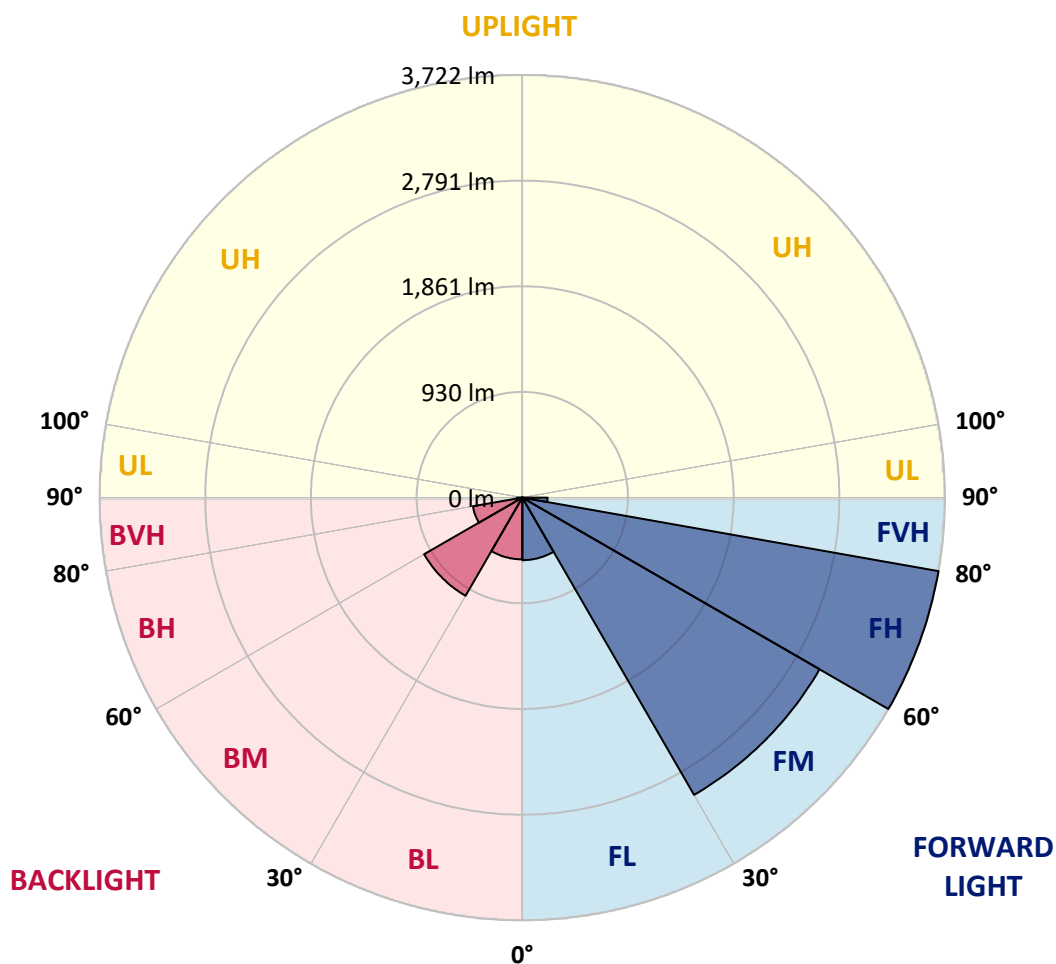
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.5	5.8			
FM	(30°-60°)	3021.7	31.6			
FH	(60°-80°)	3721.7	39.0			G2/5000
FVH	(80°-90°)	223.1	2.3			G2/225
BL	(0°-30°)	543.6	5.7	B2/1000		
BM	(30°-60°)	998.0	10.5	B1/1000		
BH	(60°-80°)	441.4	4.6	B1/500		G1/500
BVH	(80°-90°)	49.2	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9
2.5°	1347.4	1354.3	1358.0	1371.2	1374.4	1378.6	1389.7	1404.5	1423.6	1440.5	1455.3
5°	1235.2	1245.8	1252.2	1263.8	1286.5	1288.7	1318.3	1352.1	1390.8	1426.7	1456.4
7.5°	1128.9	1140.5	1145.8	1167.0	1197.1	1201.9	1245.3	1298.7	1363.3	1417.7	1463.2
10°	1049.0	1054.8	1066.5	1082.3	1118.3	1121.5	1178.1	1249.5	1333.1	1413.5	1474.9
12.5°	1005.6	1008.8	1011.5	1028.4	1063.8	1068.6	1127.8	1208.8	1309.3	1416.7	1493.9
15°	1012.0	1013.0	1001.4	1004.6	1033.2	1040.0	1098.7	1181.8	1294.5	1424.6	1522.5
17.5°	1065.4	1061.7	1033.2	1018.3	1038.4	1041.6	1092.9	1171.2	1287.6	1439.4	1552.1
20°	1149.5	1144.2	1095.0	1062.2	1073.9	1076.5	1112.0	1179.2	1294.5	1463.8	1598.1
22.5°	1254.3	1252.2	1177.6	1137.9	1137.4	1137.4	1155.9	1207.7	1315.1	1497.1	1646.3
25°	1400.8	1389.7	1292.4	1241.1	1226.8	1225.7	1223.6	1254.8	1341.6	1532.5	1703.4
27.5°	1551.0	1532.0	1445.2	1366.4	1335.7	1332.0	1318.3	1321.5	1375.4	1572.7	1768.5
30°	1685.9	1673.8	1592.3	1505.0	1468.5	1460.1	1422.0	1404.5	1432.0	1645.2	1872.2
32.5°	1789.1	1781.7	1718.2	1638.9	1584.9	1583.3	1527.8	1513.5	1520.4	1733.0	1990.7
35°	1872.7	1875.3	1843.1	1774.3	1712.4	1703.4	1666.4	1648.4	1628.3	1860.0	2139.8
37.5°	1987.0	1992.8	1990.7	1931.4	1855.8	1857.9	1849.4	1819.8	1766.4	2001.8	2305.4
40°	2112.9	2117.1	2116.6	2093.8	2054.1	2056.3	2053.1	2019.2	1939.3	2182.2	2489.5
42.5°	2286.9	2266.8	2214.4	2237.2	2260.4	2270.5	2292.2	2259.9	2150.4	2374.7	2662.5
45°	2481.6	2443.5	2325.0	2335.6	2421.8	2440.8	2560.4	2516.0	2379.5	2595.8	2866.2
47.5°	2604.3	2566.7	2466.8	2464.6	2578.9	2597.4	2809.0	2792.6	2587.9	2834.4	3114.8
50°	2713.8	2708.5	2595.8	2622.8	2734.4	2761.9	3079.9	3064.5	2795.8	3115.9	3385.6
52.5°	2876.2	2833.4	2743.4	2799.0	2946.6	2982.5	3348.6	3303.6	2986.8	3364.5	3648.6
55°	2949.2	2939.2	2933.9	2982.0	3184.6	3210.5	3609.9	3506.8	3149.7	3575.0	3848.5
57.5°	3144.4	3125.9	3178.3	3211.1	3465.0	3504.7	3882.9	3718.9	3292.5	3742.2	3945.9
60°	3397.3	3387.2	3435.4	3494.6	3778.2	3838.5	4194.0	3899.8	3407.3	3826.3	3892.4
62.5°	3775.0	3773.9	3764.9	3891.9	4222.0	4277.6	4551.0	4076.0	3425.3	3763.4	3616.3
65°	4316.7	4297.7	4219.4	4358.0	4774.3	4839.4	4922.9	4174.4	3316.9	3440.1	3045.0
67.5°	4883.3	4882.2	4818.7	4998.6	5567.3	5634.5	5387.9	4152.7	3015.9	2786.8	2162.6
70°	5353.0	5330.3	5411.2	5890.5	6580.3	6658.1	5794.7	3897.2	2402.2	1840.4	1285.0
72.5°	5465.7	5466.8	5635.0	6578.2	7553.2	7565.3	5941.3	3158.7	1607.7	1015.2	642.7
74°	5118.7	5127.7	5388.5	6612.6	7734.6	7679.6	5566.7	2482.6	1087.1	662.8	463.4
75°	4672.2	4615.6	4992.8	6383.5	7546.3	7487.0	5128.2	1992.2	829.5	529.5	405.7
77.5°	2498.0	2555.6	3137.5	4763.7	6130.7	6062.4	3477.2	955.4	448.1	368.7	292.0
80°	889.3	980.8	1378.6	2492.7	3930.5	3951.7	1659.5	438.0	315.3	271.9	206.3
82.5°	362.9	372.9	592.0	1106.2	1995.9	2015.0	677.7	260.3	225.4	187.3	123.3
85°	141.8	146.0	261.9	497.3	851.7	907.2	234.4	137.5	138.6	107.4	63.0
87.5°	47.6	54.0	107.4	165.6	289.4	283.5	68.2	40.7	49.7	46.6	19.6
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°	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9
2.5°	1462.7	1472.8	1479.6	1487.0	1493.9	1496.0	1494.4	1499.2	1499.7	1500.3	1500.8
5°	1471.2	1484.9	1498.1	1505.6	1508.7	1506.1	1497.1	1492.3	1488.1	1484.9	1486.0
7.5°	1482.8	1502.4	1514.5	1517.7	1509.3	1497.1	1474.9	1457.4	1446.3	1438.9	1438.4
10°	1500.8	1519.8	1529.9	1520.9	1497.6	1468.0	1433.1	1400.3	1375.4	1368.0	1367.5
12.5°	1523.5	1545.2	1544.7	1518.3	1477.5	1424.6	1368.0	1329.9	1296.1	1279.1	1286.0
15°	1553.2	1569.6	1554.2	1506.6	1442.1	1369.6	1299.8	1247.9	1209.8	1191.9	1192.9
17.5°	1587.6	1601.8	1561.1	1486.0	1392.3	1299.2	1218.3	1169.1	1139.0	1125.7	1124.7
20°	1630.4	1634.6	1561.1	1450.0	1328.3	1217.2	1140.0	1105.6	1088.7	1081.8	1083.9
22.5°	1676.4	1668.0	1552.6	1399.2	1244.2	1131.5	1079.7	1064.4	1055.9	1054.8	1055.9
25°	1728.3	1704.5	1535.2	1330.5	1156.4	1057.5	1027.3	1030.0	1031.6	1031.6	1035.3
27.5°	1791.7	1744.1	1506.1	1243.7	1053.8	988.7	980.3	998.8	1007.2	1008.8	1011.5
30°	1875.3	1787.5	1457.9	1135.2	966.5	926.8	941.6	966.5	976.0	981.8	980.8
32.5°	1974.8	1835.1	1392.9	1026.8	896.1	883.4	901.4	926.8	937.4	940.6	936.3
35°	2091.7	1889.1	1307.2	925.2	834.8	842.2	863.3	871.3	880.8	880.8	882.9
37.5°	2217.6	1932.5	1202.4	832.1	787.2	814.1	829.5	822.1	817.8	812.6	815.2
40°	2345.6	1964.7	1066.5	740.1	739.6	785.0	789.3	768.1	751.2	745.9	743.3
42.5°	2457.2	1984.8	943.7	668.7	694.6	756.5	759.7	725.8	698.8	682.9	677.7
45°	2589.0	2008.1	823.7	609.4	652.8	733.7	741.7	696.2	656.5	623.2	614.7
47.5°	2769.4	2061.0	729.0	563.4	622.6	719.4	730.6	671.8	619.5	576.1	569.2
50°	2973.0	2133.5	655.4	532.2	599.4	706.8	720.5	647.0	585.1	536.9	531.7
52.5°	3159.8	2172.6	592.0	504.1	576.6	683.5	707.3	629.0	551.2	497.8	493.0
55°	3261.9	2109.2	529.5	476.6	545.4	653.3	688.8	604.1	518.4	477.2	470.3
57.5°	3275.6	1978.0	472.9	447.0	512.6	616.3	654.4	574.0	497.3	462.9	457.1
60°	3169.3	1782.2	429.0	422.7	479.3	574.5	615.8	547.5	475.6	447.0	441.2
62.5°	2904.8	1569.6	398.3	400.5	445.4	530.6	587.2	522.1	454.9	429.6	424.3
65°	2449.8	1295.5	368.7	377.7	415.3	496.2	561.3	501.0	434.3	416.3	411.6
67.5°	1701.8	935.3	344.4	353.9	386.7	461.3	531.1	478.2	411.0	401.5	394.1
70°	942.2	575.6	315.8	326.9	357.1	422.1	497.3	443.8	377.2	372.9	362.4
72.5°	495.2	366.6	283.5	295.7	316.9	371.9	445.4	406.3	343.9	325.9	312.1
74°	386.7	300.5	261.9	274.6	288.8	342.3	414.7	379.3	320.0	298.9	288.3
75°	337.0	267.7	243.3	259.7	272.4	322.2	390.9	360.3	306.8	286.7	277.2
77.5°	238.1	200.5	198.9	218.5	225.4	282.5	352.3	328.0	273.5	252.3	243.3
80°	167.2	150.2	157.6	169.8	179.3	249.7	326.9	283.5	224.3	199.4	196.3
82.5°	109.0	98.4	112.7	123.8	127.0	184.1	264.0	215.3	163.5	132.8	123.3
85°	50.3	49.2	64.5	63.0	62.4	89.9	156.6	125.9	94.2	70.4	66.1
87.5°	12.7	12.2	15.9	13.2	15.9	13.8	14.3	3.7	0.5	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)