

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: P451202

Luminaire Tested: **GALN-SA2A-740-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451202  
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-SA2A-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA 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: 9176 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

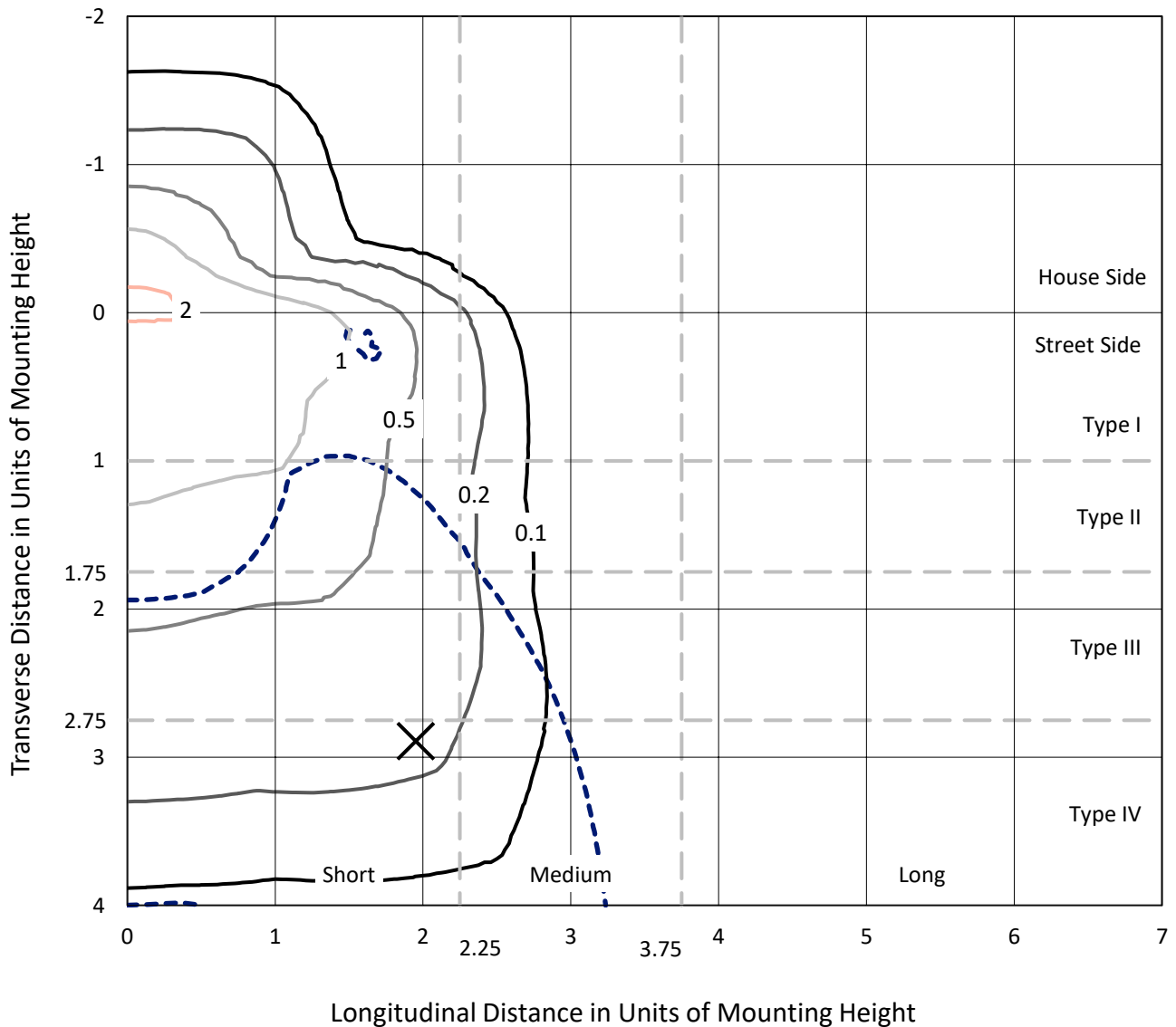
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

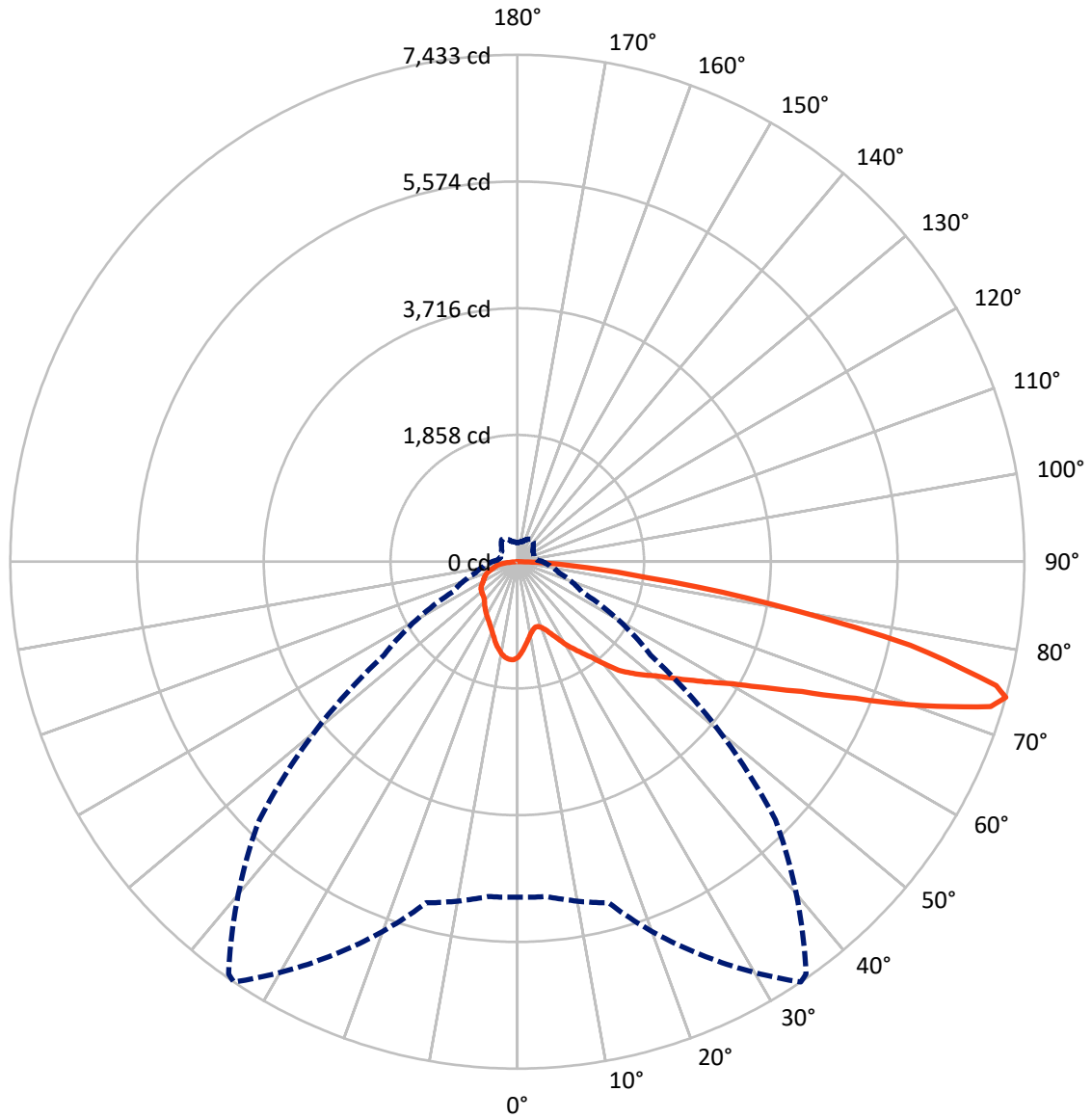
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1952.7	0.0	1952.7
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	7223.3	0.0	7223.3
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	9176.0	0.0	9176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	1.4
10°-20°	348.8	3.8
20°-30°	575.1	6.3
30°-40°	861.4	9.4
40°-50°	1252.2	13.6
50°-60°	1749.0	19.1
60°-70°	2189.7	23.9
70°-80°	1810.7	19.7
80°-90°	261.6	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°	9176.0	100.0
0°-180°	9176.0	100.0

**Coefficient of Utilization**



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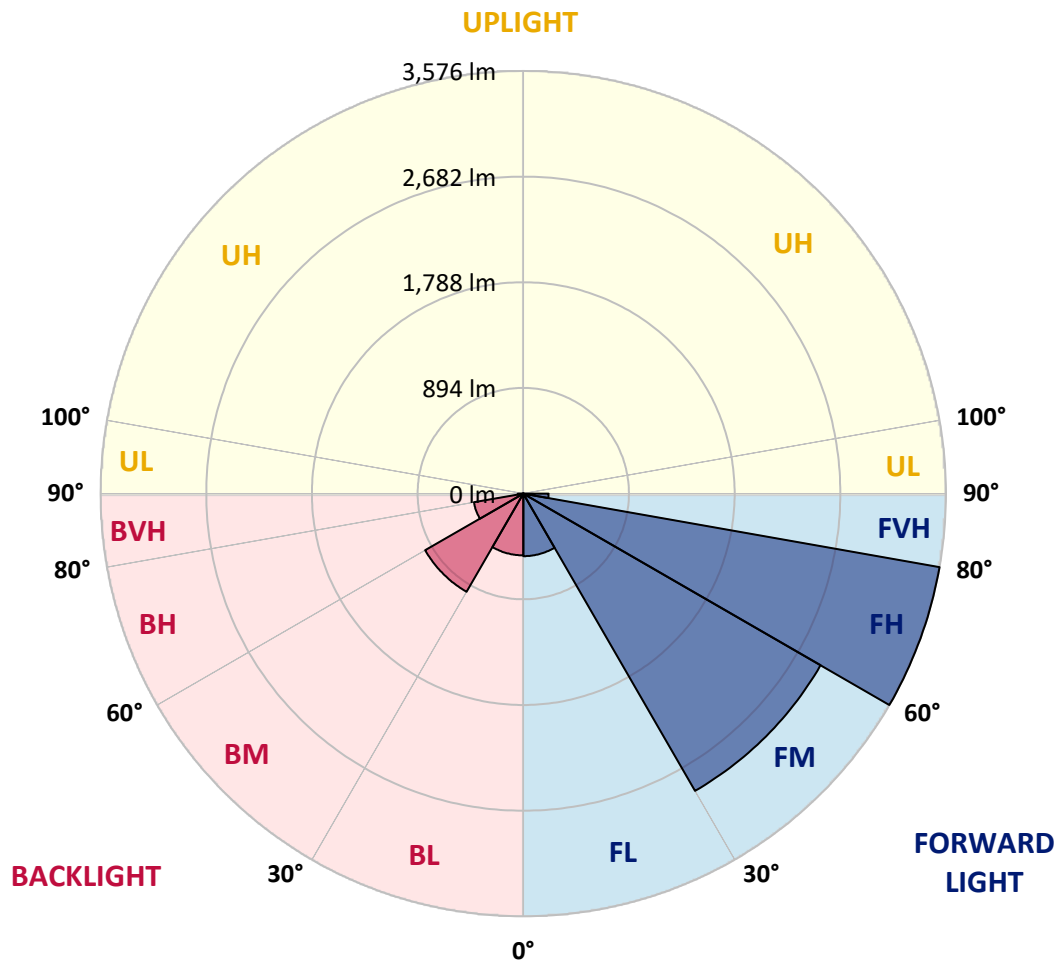
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.0	5.8			
FM (30°-60°)	2903.7	31.6			
FH (60°-80°)	3576.3	39.0			G2/5000
FVH (80°-90°)	214.3	2.3			G2/225
BL (0°-30°)	522.3	5.7	B2/1000		
BM (30°-60°)	959.0	10.5	B1/1000		
BH (60°-80°)	424.1	4.6	B1/500		G1/500
BVH (80°-90°)	47.3	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°	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0
2.5°	1294.8	1301.4	1304.9	1317.6	1320.7	1324.7	1335.4	1349.7	1368.0	1384.2	1398.5
5°	1187.0	1197.1	1203.2	1214.4	1236.3	1238.3	1266.8	1299.3	1336.4	1371.0	1399.5
7.5°	1084.8	1096.0	1101.1	1121.4	1150.4	1155.0	1196.6	1248.0	1310.0	1362.4	1406.1
10°	1008.0	1013.6	1024.8	1040.1	1074.6	1077.7	1132.1	1200.7	1281.0	1358.3	1417.3
12.5°	966.4	969.4	972.0	988.2	1022.3	1026.9	1083.8	1161.6	1258.1	1361.3	1435.6
15°	972.5	973.5	962.3	965.3	992.8	999.4	1055.8	1135.6	1243.9	1369.0	1463.0
17.5°	1023.8	1020.2	992.8	978.6	997.9	1000.9	1050.2	1125.5	1237.3	1383.2	1491.5
20°	1104.6	1099.5	1052.3	1020.8	1031.9	1034.5	1068.5	1133.1	1243.9	1406.6	1535.7
22.5°	1205.3	1203.2	1131.6	1093.4	1092.9	1092.9	1110.7	1160.5	1263.7	1438.6	1582.0
25°	1346.1	1335.4	1241.9	1192.6	1178.8	1177.8	1175.8	1205.8	1289.2	1472.7	1636.9
27.5°	1490.5	1472.2	1388.8	1313.1	1283.6	1280.0	1266.8	1269.8	1321.7	1511.3	1699.4
30°	1620.1	1608.4	1530.1	1446.2	1411.2	1403.0	1366.4	1349.7	1376.1	1580.9	1799.0
32.5°	1719.2	1712.1	1651.1	1574.8	1523.0	1521.5	1468.1	1454.4	1461.0	1665.3	1912.9
35°	1799.5	1802.1	1771.1	1705.0	1645.5	1636.9	1601.3	1584.0	1564.7	1787.3	2056.2
37.5°	1909.3	1914.9	1912.9	1856.0	1783.3	1785.3	1777.2	1748.7	1697.4	1923.6	2215.4
40°	2030.3	2034.4	2033.9	2012.0	1973.9	1975.9	1972.9	1940.3	1863.6	2096.9	2392.3
42.5°	2197.6	2178.3	2127.9	2149.8	2172.2	2181.8	2202.7	2171.6	2066.4	2282.0	2558.5
45°	2384.6	2348.0	2234.2	2244.3	2327.2	2345.5	2460.4	2417.7	2286.5	2494.4	2754.2
47.5°	2502.6	2466.5	2370.4	2368.4	2478.2	2496.0	2699.3	2683.5	2486.8	2723.7	2993.1
50°	2607.8	2602.7	2494.4	2520.4	2627.6	2654.1	2959.6	2944.8	2686.6	2994.1	3253.4
52.5°	2763.9	2722.7	2636.3	2689.6	2831.5	2866.0	3217.8	3174.6	2870.1	3233.1	3506.0
55°	2834.0	2824.4	2819.3	2865.5	3060.2	3085.1	3468.9	3369.8	3026.7	3435.4	3698.2
57.5°	3021.6	3003.8	3054.1	3085.6	3329.6	3367.8	3731.2	3573.7	3163.9	3596.0	3791.7
60°	3264.6	3254.9	3301.2	3358.1	3630.6	3688.5	4030.1	3747.5	3274.2	3676.8	3740.4
62.5°	3627.5	3626.5	3617.9	3739.9	4057.1	4110.5	4373.3	3916.8	3291.5	3616.4	3475.0
65°	4148.1	4129.8	4054.5	4187.7	4587.8	4650.3	4730.6	4011.3	3187.3	3305.8	2926.0
67.5°	4692.5	4691.5	4630.5	4803.3	5349.8	5414.4	5177.5	3990.5	2898.1	2678.0	2078.1
70°	5143.9	5122.1	5199.8	5660.4	6323.3	6398.0	5568.4	3745.0	2308.4	1768.5	1234.8
72.5°	5252.2	5253.2	5414.9	6321.2	7258.1	7269.8	5709.2	3035.3	1544.9	975.5	617.6
74°	4918.7	4927.4	5178.0	6354.3	7432.5	7379.6	5349.3	2385.7	1044.6	637.0	445.3
75°	4489.7	4435.3	4797.7	6134.2	7251.5	7194.6	4927.9	1914.4	797.1	508.9	389.9
77.5°	2400.4	2455.8	3015.0	4577.6	5891.2	5825.6	3341.3	918.1	430.6	354.3	280.6
80°	854.5	942.5	1324.7	2395.3	3777.0	3797.3	1594.7	420.9	303.0	261.3	198.3
82.5°	348.7	358.4	568.8	1062.9	1918.0	1936.3	651.2	250.1	216.6	180.0	118.4
85°	136.2	140.3	251.6	477.8	818.4	871.8	225.2	132.2	133.2	103.2	60.5
87.5°	45.8	51.9	103.2	159.1	278.1	272.5	65.6	39.1	47.8	44.7	18.8
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°	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0
2.5°	1405.6	1415.2	1421.8	1429.0	1435.6	1437.6	1436.1	1440.6	1441.2	1441.7	1442.2
5°	1413.7	1426.9	1439.6	1446.7	1449.8	1447.3	1438.6	1434.0	1430.0	1426.9	1427.9
7.5°	1424.9	1443.7	1455.4	1458.4	1450.3	1438.6	1417.3	1400.5	1389.8	1382.7	1382.2
10°	1442.2	1460.5	1470.1	1461.5	1439.1	1410.7	1377.1	1345.6	1321.7	1314.6	1314.1
12.5°	1464.0	1484.9	1484.4	1458.9	1419.8	1369.0	1314.6	1278.0	1245.4	1229.2	1235.8
15°	1492.5	1508.3	1493.5	1447.8	1385.7	1316.1	1249.0	1199.2	1162.6	1145.3	1146.3
17.5°	1525.5	1539.3	1500.1	1427.9	1338.0	1248.5	1170.7	1123.4	1094.5	1081.8	1080.7
20°	1566.7	1570.8	1500.1	1393.4	1276.4	1169.7	1095.5	1062.4	1046.2	1039.6	1041.6
22.5°	1610.9	1602.8	1492.0	1344.6	1195.6	1087.3	1037.5	1022.8	1014.7	1013.6	1014.7
25°	1660.8	1637.9	1475.2	1278.5	1111.2	1016.2	987.2	989.7	991.3	991.3	994.8
27.5°	1721.8	1676.0	1447.3	1195.1	1012.6	950.1	942.0	959.8	967.9	969.4	972.0
30°	1802.1	1717.7	1401.0	1090.9	928.7	890.6	904.9	928.7	937.9	943.5	942.5
32.5°	1897.6	1763.4	1338.5	986.7	861.1	848.9	866.2	890.6	900.8	903.8	899.8
35°	2010.0	1815.3	1256.1	889.1	802.2	809.3	829.6	837.2	846.4	846.4	848.4
37.5°	2131.0	1857.0	1155.5	799.6	756.4	782.3	797.1	790.0	785.9	780.8	783.4
40°	2254.0	1888.0	1024.8	711.2	710.7	754.4	758.4	738.1	721.8	716.8	714.2
42.5°	2361.3	1907.3	906.9	642.5	667.5	726.9	730.0	697.4	671.5	656.3	651.2
45°	2487.8	1929.7	791.5	585.6	627.3	705.1	712.7	669.0	630.9	598.8	590.7
47.5°	2661.2	1980.5	700.5	541.4	598.3	691.3	702.0	645.6	595.3	553.6	547.0
50°	2856.9	2050.1	629.8	511.4	576.0	679.1	692.4	621.7	562.2	516.0	510.9
52.5°	3036.3	2087.8	568.8	484.5	554.1	656.8	679.7	604.4	529.7	478.4	473.8
55°	3134.4	2026.8	508.9	458.0	524.1	627.8	661.9	580.5	498.2	458.5	451.9
57.5°	3147.7	1900.7	454.5	429.5	492.6	592.2	628.8	551.6	477.8	444.8	439.2
60°	3045.5	1712.6	412.3	406.2	460.6	552.1	591.7	526.1	457.0	429.5	424.0
62.5°	2791.3	1508.3	382.8	384.8	428.0	509.9	564.3	501.7	437.2	412.8	407.7
65°	2354.1	1244.9	354.3	363.0	399.0	476.8	539.4	481.4	417.3	400.1	395.5
67.5°	1635.3	898.8	330.9	340.1	371.6	443.3	510.4	459.5	395.0	385.8	378.7
70°	905.4	553.1	303.5	314.2	343.1	405.7	477.8	426.5	362.4	358.4	348.2
72.5°	475.8	352.3	272.5	284.2	304.5	357.4	428.0	390.4	330.4	313.1	299.9
74°	371.6	288.7	251.6	263.8	277.6	328.9	398.5	364.5	307.5	287.2	277.0
75°	323.8	257.2	233.8	249.6	261.8	309.6	375.7	346.2	294.8	275.5	266.4
77.5°	228.8	192.7	191.1	209.9	216.6	271.5	338.6	315.2	262.8	242.5	233.8
80°	160.6	144.4	151.5	163.2	172.3	239.9	314.2	272.5	215.5	191.6	188.6
82.5°	104.7	94.6	108.3	119.0	122.0	176.9	253.7	206.9	157.1	127.6	118.4
85°	48.3	47.3	62.0	60.5	60.0	86.4	150.5	121.0	90.5	67.6	63.5
87.5°	12.2	11.7	15.3	12.7	15.3	13.2	13.7	3.6	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)